DIRECTORY
IRON AND STEEL PLANTS

1928

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1928

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PITTSBURGH, PA.

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DIRECTORY

giving

List of Companies and Officials operating Blast Furnaces, Steel Plants, Rolling Mills, By-Product Coking Plants, Structural Steel Plants, Boiler and Tank Shops in the United States and Canada

1928

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STEEL PUBLICATIONS INC.

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SCIENCE & TECHNOLOGY DEPARTMENT

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1928

FEB 5

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A

A. B. C. BOILER & REPAIR CO., 511 W. 4th St., Kansas City, Mo.
Pres. and P. A.—Geo. P. Snyder
Vice Pres.—J. J. Snyder
Sec. and Treas.—N. B. Snyder
PRODUCTS—Acetylene and electric welding
Capital—$10,000

ACME STEEL COMPANY, Chicago, Ill. Main office: 2840 Archer Ave. Plants: 2840 Archer Ave., Chicago, and Riverdale, Ill.
Chairman—James E. MacMurray, 112 W. Adams St., Chicago.
Pres. and Gen. Mgr.—R. H. Norton
V. Pres. and Sales Mgr.—F. C. Gifford
V. Pres., Sec. and Sales Mgr.—Donald MacMurray.
Treas.—C. S. Traer
Asst. Treas. and Asst. Sec.—T. W. Lux
Pur. Agt.—H. H. Onstott

(At Chicago, Ill., Plant, 2840 Archer Ave.)
Plant Mgr.—C. M. MacChesney
Prod. Supt.—Wm. C. Kronquest
Asst. Plant Supt.—F. Kalthoff
Foreman Mach.—Valentine Gerbert
EQUIPMENT—Slitters, electro hot galvanizers and miscellaneous light steel working machinery
PRODUCTS—Light cold rolled strip, plain galvanized and painted box strapping and shipping container reinforcements.

(At Riverdale, Ill., Plant)
Treas. and G. M.—Charles S. Traer
Asst. Works Mgr.—G. T. Avery
Supt. Roll Mill—W. J. Powney
Asst. Supt. Roll Mill—W. C. Fork
Chief Engr.—Geo. Kraft
Chief Elec. Engr.—J. H. Wagner
M. M. Steam Engr. and Safety Insp.—Art. Hatfield
Met. and Chemist—R. F. Main
Roll Designer—Peter Smith
Storekeeper—Chas. Ohlsen
EQUIPMENT—One continuous hot rolled hoop mill, cold strip mills, 5 stands 16 inch, 6 stands 12 inch, 53 stands 10 inch, one 14 stand 20 inch continuous hot strip mill
PRODUCTS—Hot and cold rolled strip steel and hoops
Capacity—250,000 tons hot rolled; 80,000 tons cold rolled
Capital—200,000 shares common; issued, 183,000 shares par value, $25.00. Bonds issued, $1,400,000
Railroads—Penna., Ill. Central, B.&O., T. C.

ACME STEEL & MALLEABLE IRON WORKS, INC., 245 Military Road, Buffalo, N. Y.
Pres.—S. A. Crone
Asst. to Pres.—L. A. Crone
V. Pres.—A. E. Crone
Treas.—A. W. White
Sec. and Pur. Agt.—C. J. Brandt
Gen. Supt.—C. A. Swallow
M. M.—A. Schreiber
EQUIPMENT—Three air furnaces
PRODUCTS—Malleable castings
Capacity—6,000 tons malleable castings
Capital—$600,000; bonds issued, $125,000
Railroads—N. Y. C.; M. C.; D. L. & W.; G. T.; P. M.; N. P.; L. V.; B. R. & P.; Erie, Penna. Trolley lines

ADAMSON MACHINE CO., THE, Akron, O.
Pres. and G. M.—Alex Adamson
Treas., Sec. Pur. Agt. and Asst. G. M.—R. B. Koontz
Gen. Supt.—George S. Whitney
Supt. Steel Fdry.—L. D. Wolfsperger
EQUIPMENT—Iron and steel foundries
PRODUCTS—General machine work and rubber manufacturing machinery
Capital—$500,000; issued, $230,000
Railroads—Erie, Penna., B.&O., A. C. & Y.

ADIRONDACK STEEL FOUNDRIES CORP., Watervliet, N. Y.
Pres.—C. W. Sherman
Vice Pres. Opr. and G. M.—F. W. Sherman
Treas. and Sec.—C. A. Davis
Asst. Treas.—Miss M. A. Corbett
Pur. Agt.—W. T. Jones
Research and Safety Engr.—J. J. Winchester
M. M. and Elec. Engr.—Wm. Compson
Storekeeper—F. Gray
EQUIPMENT—One 3-ton Moore electric furnace, one 20-ton acid open hearth furnace
PRODUCTS—Steel castings
Capacity—1,000 tons per month
Capital—$505,000
Railroads—D. & H. and N. Y. C.

ADRIAN FURNACE CO., Dubois, Pa. Furnaces, Punxsutawney, Pa.
Pres.—L. W. Robinson
Sec.-Treas. and G. M.—F. G. St. Clair
Gen. Supt.—F. Becker
Supt. B. F.—R. J. Jones
M. M.—T. Hill
Sales Mgr.—C. H. Emerick

AETNA IRON & STEEL CO., THE, 12th and Market Sts., Jacksonville, Fla.
Pres. and Pur. Agt.—J. M. Burrell
Vice Pres.—C. H. Chesnut
Treas. and Sec.—E. C. Burrell
Asst. Treas. and Asst. Sec.—F. C. Knight
Supt.—Chas. C. Bruestle
Chief Eng.—C. H. Moore
Capital—$100,000, all issued

AETNA-STANDARD ENGINEERING CO., THE, Realty Bldg., Youngstown, O. Plants at Warren, O., and Ellwood City,

Business District Branch Central - Adult
328 Cop.

Pres. and Treas.—M. I. Arms, II.
V. Pres.—R. J. Wean
V. Pres.—R. C. Stiefel
Sec.—J. R. Paisley
Asst. Treas. and Asst. Sec.—I. S. Taylor
Pur. Agt.—O. J. McCarty

(At Aetna Division, Warren, O.)
Gen. Mgr.—M. D. Baughman
Draftsman—W. R. Meredith
Machine Shop Supt.—I. H. Zell
Storekeeper—Ralph Lane

(At Standard Division, Ellwood City, Pa.)
Gen. Mgr.—G. A. Pugh
Machine Shop Supt.—W. A. Kerr
Chief Engr.—H. W. Smith
Met.—W. H. Pfeil
Roll Designer—E. J. Mulvaney
Draftsman—W. W. Golden
Storekeeper—Frank Gross
PRODUTS—Rolling mill machinery, castings, patterns, tube mills, rolls, draw benches, special mill machinery

AETNA STEEL & IRON CO., Southington, Conn.
Pres. and G. M.—Seth L. Martin
V Pres.—Charles A. Haines
Vice Pres.—Jos. Muddocks
Treas. and Sec.—P. B. Kennedy
Asst. Treas.—Carl Stohleker
Gen. Supt.—L. W. Jordan
Roll Designer—Frank J. Ray
EQUIPMENT—One each 18-inch, 10-inch, 8-inch bar mills
PRODUCTS—Iron and steel bars
Capacity—2,000 tons
Capital—$150,000; issued, $51,000
Railroads—Three side tracks owned by company; plant on side track of N. Y., N. H. & H. and H. R.

ALLEGHENY STEEL CO., Brackenridge, Pa.
Pres.—H. E. Sheldon
Asst. to Pres.—V. B. Browne
V. Pres. and Treas.—R. D. Campbell
V. Pres.—L. W. Hicks
V. Pres.—J. O. Carr
V. Pres.—C. C. Henderson
Sec. and Auditor—F. H. Stephens
Pur. Agt.—E. L. McGraw
Gen. Mgr.—W. F. Detwiler
Supt. O. H.—H. A. Young
Chief Engr.—O. B. Lindquist
Asst. Chief Engr.—J. R. Taylor
M. M. and Chief Elec.—A. E. Miller
Met.—W. E. Caugherty
Engr. Tests—C. J. Stroble
Safety Insp.—F. H. Walker
PRODUCTS—Ingots, sheet bars, boiler tubes, steel sheets, stampings, castings

ALLIED STEEL CASTINGS CO., 12000 S. Racine Ave., Chicago, Ill. Plant: West Harvey, Ill.
Pres.—John T. Llewellyn
Vice Pres. and Sales Mgr.—C. J. Nash
Vice Pres., Treas., Sec. and G. M.—J. S. Llewellyn
Pur. Agt.—H. D. Menke

(At West Harvey, Ill., Plant)
Chief Engr.—G. T. Lang
Gen. Supt.—Thomas Evans
Supt. O. H.—John McLaughlin
Met.—F. A. Kavanaugh
EQUIPMENT—Two 15-ton acid open hearth furnaces
PRODUCTS—Acid steel casting
Capacity—1,100 tons per month
Capital—$350,000
Railroads—B. & O.; Chicago Terminal

ALLIS—CHALMERS MFG. CO., Milwaukee, Wis. Plants: West Allis, Wis. and Norwood, O.
Pres.—Otto H. Falk
V. Pres. Max W. Babb
Treas.—R. Dill
Compt. and Sec.—W. A. Thompson
Pur. Agt.—A. E. Bateson
Gen. Wrks. Mgr.—William Watson
Asst. Wrks. Mgr.—W. E. Furnas
PRODUCTS—Power, electrical and industrial machinery

(At Norwood, O., Bullock Works)
Gen. Supt.—Earle R. Knight
Pur. Agt.—George C. Merckel
PRODUCTS—Electrical machinery

ALLOY METAL WIRE CO., 13th and Pennsylvania Ave., Moore, Pa.
Pres.—James L. Leonard
V. Pres.—Thomas W. Burke
Treas. and G. M.—E. H. Flinn
Sec.—D. A. Crosset
Pur. Agt.—David Morrow
Gen. Supt.—Connie Lenz
EQUIPMENT—250-lb. Pittsburgh melter
PRODUCTS—Wire, cold drawn rods and strips
Capacity—200 tons per month

ALLOY STEEL & METALS CO., 55th and Alameda Sts., Los Angeles, Calif.
Chairman and Pres.—A. J. Morse
Treas., Pur. Agt. and Gen. Mgr.—B. J. Quinn
Sec.—N. K. Anderson
Gen. Supt. Fdry.—J. Lavine
Chief Engr. and Draftsman—P. R. Francis
Elec. Engr.—A. E. Allard
Steam Engr.—W. Glass
Met.—W. Young
EQUIPMENT—Foundry, machine shop, cleaning, heat treating, forge shop
PRODUCTS—Soft, chrome, manganese, stainless and chrome vanadium castings, roller bearings, crushers
Capacity—250 tons per month
Capital—$250,000
Railroads—Southern Pacific Railway Spur

ALTOONA IRON CO., 9th Ave. and 30th St., Altoona, Pa.
Pres.—Dr. Joseph D. Findley
Treas. and Sec.—Russell McCauley
Asst. Sec., Pur. Agt. and G. M.—Russell McCauley
Gen. Supt.—William W. Grove
EQUIPMENT—18-foot 1-stand muck mill, 16-inch 3-stand bar mill, two 8-inch

4-stand guide mills, 5 heating furnaces, 28 pudding furnaces
PRODUCTS—Staybolt, engine bolt, socket iron, specification iron, muck bar, chain iron, etc.
Capacity—24,000 gross tons per year
Capital—$150,000
Railroad—Pennsylvania

AMERICAN ABRASIVE METALS CO., 50 Church St., New York, N. Y. Plant: Irvington, N. J.
Pres. and Treas.—R. S. Edmondson
Vice Pres.—A. B. Sayre
Sec.—R. P. Spooner
EQUIPMENT—Three cupolas
PRODUCTS—Feralun, bronzalun and alumalun safety stair treads, elevator door thresholds, wear resistent plates and pipes, brake shoes, rabble blades
Capacity—40 tons daily

(At Irvington N. J. Plant, 400 Cort St.)
Gen. Supt.—Adam H. Miller

AMERICAN BRAKE SHOE & FDRY. CO., THE. Gen. office, 30 Church St., New York, N. Y. Plants: Baltimore, Md.; Buffalo, N. Y.; Burnside, Ill.; Chattanooga, Tenn.; Chicago, Ill.; Denver, Colo.; Houston, Tex.; Kansas City, Mo.; Mahwah, N. J.; Melrose Park, Ill.; Minneapolis, Minn.; Norwood, Mass.; 2 at Pittsburgh, Pa.; Portsmouth, Va.; Subsidiary and Associated Companies: American Malleables Co., Plants at Owosso, Mich.; Southern Wheel Co.; Plants, Atlanta, Ga.; Birmingham, Ala.; Cleveland, O.; Pittsburgh, Pa.; Portsmouth, Va.; Rochester, N. Y.; Savannah, Ga.; Sayre, Pa.; St. Louis, Mo.; Toledo, Ohio; American Brake Shoe & Foundry Co., of California, plants: Los Angeles and San Francisco, Cal.; American Forge Co., Chicago, Ill.; American Manganese Steel Co., plants: Chicago Heights, Ill.; Denver, Col.; New Castle, Del.; Oakland, Cal.; St. Louis, Mo.; Los Angeles, Cal.; Ramapo Ajax Corp., plants: Chicago, Ill.; Hilburn, N. Y.; Niagara Falls, Can.; Niagara Falls, N. Y.; Pueblo, Colo.; East St. Louis, Ill.; Superior, Wis.; Dominion Brake Shoe Co., Ltd., St. Thomas, Ont.
Pres.—Joseph B. Terbell
V. Pres. Opr.—James S. Thompson
V. Pres. Sales—Wm. S. McGowan
Treas.—George C. Ames
Asst. Treas.—Frank H. Janke
Sec.—Geo. M. Judd
Pur. Agt.—Charles H. McGrath
Chief Engr.—Fitz Wm. Sargent
Capital—Preferred, $9,600,000; Common, $100,000; issued $652,800

(At Pittsburgh, Pa., 3417 Smallman St.)
Supt.—W. A. Blume

AMERICAN BRIDGE CO., Main office: Frick Bldg., Pittsburgh, Pa. Plants: Ambridge, Pencoyd and Pittsburgh, Pa.; Elmira, N. Y.; Gary, Ind.; Toledo, O.; Minneapolis, Minn.; Trenton, N. J.; Canton, O.; Chicago, Ill.; St. Louis, Mo.
Pres.—Joshua A. Hatfield
V. Pres.—L. A. Paddock
Sec.—R. F. Ball
Treas.—F. E. Wiley
Asst. Sec.—Geo. K. Leet, New York
Asst. Treas.—Wm. K. Cornwell
Auditor—Frank B. Thompson
Asst. Gen. Opg. Mgr.—M. Williams
Pur. Agt.—W. G. A. Millar
Actg. Chief Engr.—C. G. F Larsson, N. Y.
Gen. Mgr. Erect. Dept.—Richard Khuen, Jr.
Div. Mgr. Erect. Dept.—J. L. de Vou
Div. Mgr. Erect. Dept.—C. S. Garner
Div. Erect Mgr.—J. B. Gemberling
Div. Erect. Mgr.—K. L. Strickland

(At Ambridge, Pa., Plant)
Mgr.—L. S. Reilly
Asst. Mgr.—David L. See
Supt. O. H.—Wm. S. Bradley
Engr.—R. G. Manning
M. M.—A. B. Churchill
Mach. Shop Supt.—J. H. Lester
Storekeeper—G. W. Zahn

(At Pencoyd, Pa., Plant)
Mgr.—H. L. James
Asst. Pur. Agt.—M. L. Seaman
Supt. Yds. and Bldgs.—E. E. Quimby
Asst. Supt. Yds. and Bldgs.—Chas. Melhorn
O. H. Dept. Supt.—H. B. Siddall
Asst. O. H. Supt.—Carlton Williams
Fdrys. Supt.—W. P. Cunningham
Supt. Rolling Mill—W. V. Frame
Supt. Motive Power—Walter Righter
Asst. Supt. Motive Power—Geo. Robertson
Supt. Pattern Shop—Albert Swaile
Roll Designer—Geo. Harper
Asst. M. E.—P. G. Ingraham
Engr. of Tests—A. H. Wartman
Elec. Supt.—Joseph K. Rose
Chemist—Charles Brugger
Foreman—Charles Parsons
Foreman—F. J. Armbruster
Foreman—M. Stevenson
Foreman—Ralph Taylor
PRODUCTS—O. H. ingots and blooms and steel for castings, structural shapes, bars and plates
Annual Capacity—250,000 tons
Steel Mill—11 furnaces and 2 cupolas, 13 gas producers, 3 cranes, 3 charging machines
Type of Mills—One 36-inch blooming mill; one 12-inch merchant mill; one 23-28-inch finishing mill, one 23-inch mill
Power Plant—Two 1,000-kw. and one 1,500-kw. turbine engines, direct connected to generators, and two 500-kw. steam engines, direct connected
Fuel—Annual consumption approximately: 7,000 gross tons coke, 89,000 gross tons gas coal, 50,000 gross tons steam coal, 12,000,000 gallons fuel oil.

AMERICAN CABLE CO., 105 Hudson St., New York, N. Y. Plants: 462 Riverside Ave., Newark, N. J.

Pres.—R. W. Scott
V. Pres. and Sec.—G. C. Moon
Treas.—R. W. Scott
Asst. Treas.—C. E. Hodgson
Pur. Agt.—D. Hitchman

(At Newark, N. J. Plant, 462 Riverside Ave.)
Works Mgr.—G. C. Gregson

AMERICAN CAR & FDRY. CO., 30 Church St., New York, N. Y. Plants: Chicago and Madison, Ill.; Indianapolis, Jeffersonville and Terre Haute, Ind.; Wilmington, Del.; Detroit, Mich.; St. Charles and St. Louis, Mo.; Buffalo and Depew, N. Y.; Berwick, Bloomsburg and Milton, Pa., and Huntington, W. Va.
Pres.—Wm. H. Woodin
Asst. to Pres.—Wm. M. Hager
Vice Pres. Opr.—W. C. Dickerman
Vice Pres. Sales—H. W. Wolff
Vice Pres. Finance and Accts.—G. R. Scanland
Vice Pres. Accts.—N. A. Doyle, St. Louis
Vice Pres.—C. D. Terrel, Chicago
Vice Pres.—O. B. Cintas
Treas.—S. A. Mallette
Asst. Treas.—L. A. Blackford
Sec.—H. C. Wick
Asst. Sec.—C. F. Havey and C. A. Smith
Pur. Agt.—W. J. Harris
Auditor—E. S. Block
Asst. Auditor—W. A. Keth
PRODUCTS—Cars, car parts, grey iron castings, bar iron, forgings, mine cars and mine car parts, pins, wheels, etc.

(At Wilmington, Del.)
Dist. Mgr.—A. W. Gawthrop

(At Chicago, Ill.)
Dist. Mgr.—A. H. Gairns

(At Madison, Ill.)
Dist. Mgr.—S. S. Engle

(At Indianapolis, Ind.)
Asst. Dist. Mgr.—C. R. Baker

(At Jeffersonville, Ind.)
Dist. Mgr.—C. T. Hertzsch

(At Terre Haute, Ind.)
Dist. Mgr.—E. D. Buick

(At Detroit, Mich.)
Mgr.—E. J. Hall

(At St. Charles, Mo.)
Dist. Mgr.—J. W. Lawler

(At St. Louis, Mo.)
Dist. Mgr.—T. A. Dooley

(At Buffalo, N. Y.)
Dist. Mgr.—J. R. Mulcare

(At Depew, N. Y.)
Asst. Dist. Mgr.—E. G. Englehart

(At Berwick, Pa.)
Dist. Mgr.—W. S. Johnson
Supt. Rolling Mill—J. H. Catterall
Supt. Production—L. E. Hess
Supt. Maint. & Power Engr.—M. S. Evans
Shop Engr.—W. E. Williams
Safety Engr.—W. E. Jarrard
Chief Elec.—J. R. Bower
M. M.—J. A. Harry
Chief Draftsman—H. A. Stevens
Safety Insp.—Clark Bower
Roll Designer—C. F. Walp
Foreman Machinist—M. L. Thomas
Storekeeper—S. C. Beidleman

(At Bloomsburg, Pa.)
Supt.—W. V. Johnson

(At Milton, Pa.)
Works Mgr.—W. P. Hindman

(At Huntington, W. Va.)
Dist. Mgr.—J. W. Ensign

AMERICAN CAST IRON PIPE CO., Birmingham, Ala.
Pres.—W. D. Moore
V. Pres.—C. D. Barr
Treas.—C. O. Hodges
Works Mgr.—James W. Moore
Supt.—H. J. Noble
Chief Engr.—S. D. Moxley
Safety Engr.—H. S. Sutton
M. M.—M. D. Smith
Met.—J. T. Mackenzie
PRODUCTS—Cast iron pipe and fittings

AMERICAN CHAIN CO., INC., Bridgeport, Conn. Plants: Bridgeport, Conn.; Braddock, Pa.; Columbus O. and York, Pa.
Pres.—W. B. Lashar
V. Pres. and G. M.—W. T. Morris
Treas.—W. F. Wheeler
Sec.—W. M. Wheeler
Pur. Agt.—C. G. Williams
Gen. Sales Mgr.—A. P. Van Schaick
PRODUCTS—Drop forgings, malleable castings and welded and weldless chain for all industries

(At York, Pa.)
Chief Engr.—H. A. Delano
M. M.—George Geiman

AMERICAN ENGINEERING CO., Aramingo and Cumberland Sts., Philadelphia, Pa.; Plant 1, Aramingo and Cumberland Sts.; Plant 2, Wheatsheaf Lane and Sepviva St.
Chairman—Wm. F. Sauter
Pres.—M. Alpern
Vice Pres.—W. V. Sauter
Treas and Sec.—C. L. Cushmore
Pur. Agt.—E. W. Sharninghausen
Sales Mgr.— J. G. Worker
Supt.—H. A. Peck
Draftsman—C. V. Koons
PRODUCTS—Machinery manufacturers.
Capital—$5,000,000; issued $3,370,500.
Railroads—Phila. & Reading and Penna.

AMERICAN FOUNDRY & MACHINE CO., 870 So. 4th St., Salt Lake City, Utah
Pres.—Simon Rosenblatt
V. Pres. and Treas.—Morris S. Rosenblatt
Sec.—John F. Margetts
Gen. Mgr.—P. A. Mattingly
Chief Elec. Engr.—C. W. Silver
EQUIPMENT—Complete pattern, machine shops and steel foundry
PRODUCTS—Electric steel castings
Capacity—2,500 tons
Capital — $200,000; issued, $100,000; bonds outstanding, $84,000
Railroads—Denver & Rio Grande and Ore. Short Line

AMERICAN FROG & SWITCH CO., Hamilton, O.
Pres.—C. E. Hooven
V. Pres., Sec. and G. M.—Don Hooven
Treas.—E. S. Griffis
Pur. Agt.—G. Sauer
Gen. Supt.—C. Fairchild
Engr.—R. G. Detmer
PRODUCTS—Frogs, switches, crossings, track appliances

AMERICAN INSULATED WIRE & CABLE CORP., 954 W. 21st St., Chicago, Ill.
Pres.—W. F. Field
V. Pres.—G. T. Cottle
V. Pres.—D. R. G. Palmer
Treas.—W. C. Hall
Asst. Treas.—F. E. George
Sec.—M. B. Mervis
PRODUCTS—Bare and insulated wire and cable

AMERICAN LOCOMOTIVE COMPANY, 30 Church St., New York, N. Y.
Chairman—Wm. H. Woodin
Pres.—Frederick F. Fitzpatrick
V. Pres. and Compt.—Joseph Davis
V. Pres. Mfg.—Duncan W. Fraser
V. Pres. Sales—F. J. Foley
V. Pres. Eng.—Joseph B. Ennis
V. Pres Pur.—Lester S. Carroll
Treas.—J. Oakley Hobby, Jr.
Asst. Treas.—Philip F. Walkley
Sec.—W. Spencer Robertson
Asst. Sec.—John D. Finn
Asst. Compt.—Harry Fulton

(At Chester, Pa., Plant, Delaware Ave. and Jeffrey St.)
Works Mgr.—R. E. Fisher
Asst. Works Mgr.—R. P. LaPorte
Gen. Supt.—C. A. Lehman
Supt. O. H.—P. J. McEntee
Asst. Supt. O. H.—Thomas McGeehan
M. M.—E. S. Shaw
Met.—John N. Ludwig, Jr.
Chemist—Allen N. Perry
Storekeeper—H. B. Davis
PRODUCTS—Open hearth steel castings
Capacity—32,400 net tons annually

AMERICAN MANGANESE STEEL CO., 332 S. Michigan Ave., Chicago, Ill. Plants: 389 E. 14th St., Chicago Heights, Ill.; New Castle, Del.; Denver, Colo.; Oakland, Cal.; Los Angeles, Cal.
Chairman—R. Ortman, New York
Pres.—W. G. Nichols
V. Pres.—C. Fahlstrom
V. Pres., Treas. and Sec.—S. T. McCall
V. Pres.—J. S. Thompson, New York
Asst. Treas.—H. F. Rickoff
Pur. Agt.—C. H. McGrath, New York
Gen. Sales Mgr.—A. W. Daniels
PRODUCTS—Manganese steel castings, heat and corrosion resisting castings, carbon steel castings
Capacity—25,000 tons annually
Capital—$5,000,000

(At Downey St. and Slauson Ave., Los Angeles, Cal., Plant)
Mgr.—Pacific Coast—D. H. Young, at Oakland Pier, Oakland, Cal.
Wrks. Mgr.—H. A. McPherson, at Los Angeles
Capacity—100 tons per month

(At Denver, Colo., Plant, 4th and Wazee St.)
Mgr.—Carl Krutzsch
Chief Elec. and M. M.—Thomas Lynch
Met.—Warren Lowe
Foreman Cleaning Room—L. Murray
Foreman Pattern Shop—Frank Payne
EQUIPMENT—Two electric furnaces
PRODUCTS—Manganese and carbon steel castings
Capacity—500 gross tons per month

(At Chicago Heights, Ill. Plant)
Chief Engr.—A. H. Exton

(At New Castle, Del. Plant)
Gen. Supt.—Wm. W. Swayze, Jr.
Asst. Gen. Supt.—Joseph L. Mullin
Chief Engr.—Ralph Watts
Steam Engr.—W. Denny
M. M.—H. Seale
Chief Chemist—J. Fahy, Jr.
Draftsman—G. Lyon
Safety Insp.—J. Armpriester
Storekeeper—John Wallace
PRODUCTS—Manganese steel castings

AMERICAN METAL PRODUCTS CO., Burnham St. and 34th Ave., Milwaukee, Wis.
Pres. and G. M.—C. J. Zaiser
V. Pres. Opr.—Herman Haehle
Treas. and Sec.—R. W. Necker
Pur. Agt.—G. K. Dreher
Gen. Supt.—G. E. Avery
Chief Engr.—J. O. Wishart
EQUIPMENT—Electric furnaces
PRODUCTS—Aluminum, bronze castings and rolled products
Capacity—5 tons daily
Capital—$5,000,000; issued, $300,000; bonds, $46,000
Railroads—C. & N. W., M. & St. P. tracks

AMERICAN MOND NICKEL COMPANY, Century Bldg., Pittsburgh, Pa. Plant: Clearfield, Pa.
Chairman and Pres.—G. B. Shipley

V. Pres. Opr. and Gen. Mgr.—H. R. Condon
V. Pres. Sales—Ranso M. Cooper, Jr.
Sec. and Treas.—S. J. McCabe
Asst. Treas.—D. Boyle
Asst. Treas. and Asst. Sec.—O. H. Menzel
Pur. Agt.—H. W. Jacquart

(At Clearfield, Pa. Plant)

Gen. Supt.—R. A. Schneid
Asst. Gen. Supt.—J. O. McDowell
Elec. Engr.—W. C. Seifert
PRODUCTS—Pure 99 per cent nickel and Mond alloys in sheets, rods, tubes, wire and castings
Railroads—B. R. & P. and Penna.

AMERICAN PUDDLED IRON CO., No. Mahoning Ave., Warren, O. (Plant leased to A. M. Byers Co., Pittsburgh, Pa.)
Pres. and Treas.—R. C. Steese
Vice Pres.—John Stambaugh
Sec. and Asst. Treas.—J. Paul Suter
Gen. Mgr.—T. M. Phillips
PRODUCT—Mechanically puddled wrought iron, blooms, billets, muck bar and sheet bar

AMERICAN RADIATOR CO., 40 W. 40th St., New York, City, N. Y. Plant: Buffalo, N. Y.
Pres.—C. M. Wooley
First V. Pres.—Charles M. Parker
Second V. Pres. Charge Opr.—B. S. Stephenson
Treas.—S. Barham
Sec.—F. J. Mullany

(At Plant, Buffalo, N. Y.)

Mgr.—Robert McClurkin
Supt.—T. J. LaMotte
Chief Engr.—F. Baldwin
Elec. Engr.—Harry Brooks
Chemist—W. J. Holt

AMERICAN ROLLING MILL CO., Middletown, O. Plants: Middletown, Columbus, Elyria and Zanesville, O.; Ashland, Ky.
Pres.—Geo. M. Verity
V. Pres. and Gen Mgr.—C. R. Hook
V. Pres.—W. S. Horner
V. Pres.—J. C. Miller
V. Pres.—J. B. Tytus
V. Pres.—J. H. Frantz
V. Pres.—D. Eppelsheimer
Asst. V. Pres.—W. W. Sebald
Treas. and Asst. Gen. Mgr.—C. W. Verity
Sec.—R. C. Phillips
Asst. Treas.—C. W. Davis, F. B. Moore and M. A. Brawley
Asst. Sec.—W. D. Vorhis
Comptroller—C. L. Kingsbury
Director of Purchases—Bennett Chapple

(At Middletown, O., Plant Central and East Side)

Works Mgr.—M. E. Danforth
Asst. Gen. Supt., in charge of steel plant—L. F. Reinzartz
Asst. Gen. Supt. in charge sheet mill and finishing depts.—Wm. Stringham
Supt. O. H.—G. D. Tranter
Supt. Blooming and Bar Mills—S. N. Holstein
Supt. Maint.—R. S. Shoemaker
Chief Elec.—Gordon Gage
M. M.—Clayton C. Hursh
Supt. Power—Arthur Steed
Safety Insp.—R. G. Adair
Chief Draftsman—L. V. Workman

(At Ashland, Ky. Plant)

Works Mgr.—S. R. Rectanus
Gen. Supt.—Geo. P. Hansen
Asst. Gen. Supt.—Russell B. Smith
Supt. Blast Furnaces—Charles J. Rice
Supt. Sheet & Jobbing Mill—Wm. Hoover
Supt. Fdry. & Mach. Shop—Clark White
Supt. O. H.—K. C. McCutcheon
Supt. Blooming Mills—David M. Jeffries
Asst. Supt. O. H.—Morley P. Albaugh
Supt. Elec. Dept.—T. J. Flaherty
Brick Supt.—Geo. W. Cossett
M. M.—R. C. Huntsberger
Roll Designer—T. A. Hall
Draftsman—R. P. Tooke
Storekeeper—Ed. Hibbert

(At Columbus, O. Furnace)

Vice Pres.—J. H. Frantz
Asst. to Vice Pres.—R. H. Sweetser
Plant Mgr.—J. S. Ferguson
EQUIPMENT—Two blast furnaces
PRODUCT—Pig iron

(At Zanesville, O. Plant)

Plant Mgr.—A. F. Murphy

AMERICAN SHEET & TIN PLATE CO., Frick Bldg., Pittsburgh, Pa. Plants: Two at Gary, Ind., Elwood, Ind.; Bridgeport, O.; Canton, O.; two at Cambridge, O.; Cleveland, O.; Dover, O.; Martins Ferry, O.; New Philadelphia, O.; Wellsville, O.; two at Farrell, Pa.; Leechburg, Pa.; McKeesport, Pa.; two at New Castle, Pa.; two at New Kensington, Pa.; two at Scottdale, Pa.; Chester, Morgantown and Wheeling, W. Va.
Pres.—E. W. Pargny
Vice Pres.—C. W. Bennett
Vice Pres. Opr.—Wm. A. Irvin
Vice Pres. and Gen. Mgr. Sales—J. I. Andrews
Asst. to Vice Pres.—R. E. Zimmerman
Asst. to Vice Pres.—W. C. Tamplin
Asst. to Vice Pres. and Chief Engr.—G. C. Kimball
Sec. and Treas.—H. D. Wheeler
Asst. Sec.—Percy Cooke
Asst. Sec. and Asst. Treas.—F. C. Harper
Asst. Gen. Mgr. of Sales—E. M. Fuller
Auditor—Roland J. Hadly
Asst. Auditor—G. M. McGinnis
Pur. Agt.—M. S. Dennis
Asst. Pur. Agt.—G. C. Schutte
Mgr. Research Lab.—J. C. Whetzel, 210 Semple St., Pittsburgh, Pa.
Mgr. Order Dept.—G. S. Jenks
Traffic Mgr.—J. L. Neely
Special Agt.—A. B. Grange

Asst. Chief Engr.—H. G. McIlvried
Elec. Engr.—Andrew Pinkerton
Asst. Chief Engr.—J. A. Hunter
Engr. Tests—E. S. Taylorson
Special Rep.—A. E. Piper
Mgr. Bureau Office Sup.—T. L. McCreery
Mgr. Adv. Dept.—H. V. Jamison
Mgr. Safety and Welfare—A. E. Logan
Asst. Mgr. Safety and Welfare—J. B. Allen

(At Gary, Ind., Sheet Mill)

Mgr.—John A. Gross
Works Auditor—L. Surver
EQUIPMENT—Gas producers, 10; cranes, 28; two 84-inch plate mills, 4 jobbing mills, 16 sheet mills
Power Plant—Motors only, power purchased; 84 motors; total 1,850 hp.; 250 v., a.c.; 191 motors, total 5,245 hp.; 250 v., d.c., 3 roll motors, total 1,000 hp., 250 v., d.c.; 12 roll motors, total 12,350 hp., 2,200 v., d.c.
PRODUCTS—Black and galvanized sheets
Capacity—335,000 tons sheet, 120,000 tons galvanized, annually
Railroads—Elgin, Joliet & Eastern

(At Gary, Ind., Tin Mills)

Mgr.—W. C. Lloyd
Asst. Mgr.—W. T. Hugus and E. E. Moore
Supt. Hot Mill—W. F. Woods
Asst. Supt. Hot Mill—F. L. Morrison, George Hartill and J. H. Knight
Night Supt.—D. T. Jones
M. M.—C. R. Bottenfield
Chief Engr.—A. R. McArthur
Chief Elec.—K. B. West
Asst. Elec. Engr.—W. E. Graham and Wm. F. Bachman
Works Auditor—F. H. McMasters
Mech. Engr.—E. T. Long
Fuel Engr.—Geo. McCool
Mach. Shop Supt.—John Peet
Brick Supt.—Frank Hewy
Storekeeper—C. W. Hughes

(At Elwood, Ind., American Works)

Mgr.—John Byus
Works Auditor—J. H. Fihe

(At Bridgeport, O., Aetna-Standard Works)

Mgr. and Chief Clerk—P. A. Kennedy

(At Canton, O., Roll and Machine Works)

Mgr.—W. A. Harris
Mech. Engr.—E. W. Hanna
Works Auditor—W. C. Bryant

(At Cambridge, O., Guernsey Works)

Mgr.—C. I. Gibson
Works Auditor—J. D. Fulton
Supt. Sheet Dept.—B. H. Townsend
Supt. Galv. Dept.—R. S. Strahl
M. M.—L. L. Beach
Asst. M. M.—A. E. Baker
Chief Elec.—F. Kyle

(At Cambridge, O., Cambridge Works)

Mgr.—J. E. Thompson

(At Cleveland, O., Crescent Works)

Works Auditor—Arthur Thomas

(At Dover, O., Works)

Mgr.—W. H. Ashbaugh
Mech. Engr.—Otto Wagner
Charge Elec. Dept.—H. E. Reinhold
Works Auditor—W. B. Vorherr

(At Martins Ferry, O., Laughlin Works)

Gen. Mgr.—Earl S. Machin
Asst. Gen. Supt.—Wm. G. Eifler
Mech. Engr.—W. H. Bycott
M. M.—D. F. Bennett
Works Auditor—J. E. Sweeney

(At New Philadelphia, O., Works)

Mgr.—W. L. Davis
Works Auditor—John Rosch

(At Wellsville, O., Works)

Mgr.—B. J. Ross
Works Auditor—E. S. Noble

(At Farrell, Pa., Farrell Works)

Mgr.—Thos. O'Brien
Works Auditor—F. J. Brenner

(At Farrell, Pa., Mercer Works)

Mgr.—W. L. Goodhue
Works Auditor—R. B. Sanger

(At Leechburg, Pa., Works)

Dist. Mgr.—D. A. Barrett
Supt.—H. E. Bruce
M. E.—T. A. Lindquist
Foreman—E. M. Johnson
Foreman—D. T. Malarky
Foreman—D. L. Ralston
Roller—J. M. Stanier
Works Auditor—J. W. Stephens

(At McKeesport, Pa., Wood Works)

Mgr.—S. M. Cooper
Asst. Mgr.—C. A. Dennen
Plate Mill Supt.—J. H. Cooper
M. M.—W. J. Tawney
Works Auditor—D. C. Stevick
Charge Elec. Dept.—G. D. Christner
Storekeeper—John Burns

(At Monessen, Pa., National Works)

Mgr.—C. H. Williams
Works Auditor—F. J. Meybin

(At New Castle, Pa., Shenango Works)

Mgr.—D. S. Pyle
Res. Engr.—J. K. Lamoree
M. M.—J. M. Darbaker
Works Auditor—M. D. Wells

(At New Castle, Pa., New Castle Works)

Mgr.—John A. Butler
Chief Clerk—H. S. Christman

(At New Kensington Pa., Pittsburgh Works)

Mgr.—E. R. Thompson
Works Auditor—R. Theis

(At New Kensington Pa., Pennsylvania Works)
Mgr.—J. E. Hartill
Works Auditor—H. K. Baker

(At Scottdale, Pa., Old Meadow Works)
Mgr.—A. J. Skemp
M. M.—J. W. Rutheford
Elec. Engr.—H. E. Steward
Foremen—J. T. Randle, W. B. Rush, O. A. Rush
Works Auditor—R. P. Percy

(At Scottdale, Pa., Scottdale Works)
M. M.—G. B. Mellinger
Foremen—W. C. Keely, J. G. Black, Joseph Bates

(At Vandergrift, Pa., Works)
Dist. Mgr.—D. A. Barrett
Asst. Dist. Mgr.—H. L. Bodwell
Res. Engr.—H. L. Anderson
Supt. O. H.—Alexander G. Black
M. M.—C. L. Blair
Chief Elec.—V. I. Brinker
Chief Draftsman—O. M. Hammer
Foreman Machinist—George S. Zorn
Works Auditor—W. A. Wiggins

(At Chester, W. Va., Works)
Mgr.—T. R. Timothy
Works Auditor—Geo. C. Holliday

(At Morgantown, W. Va., Sabraton Wks)
Mgr.—C. E. Crawford
M. M.—W. E. Waldron
Chief Elec.—U. S. Culp
Chief Clerk—H. R. Law

(At Wheeling, W. Va., La Belle Works)
Gen. Mgr.—Wm. C. Weichsel
M. M.—Wm. Springfield
Works Auditor—J. E. Sweeney

AMERICAN STEEL CO., 1330 Park Bldg., Pittsburgh, Pa.
Pres.—M. B. Kelly
Treas. and Sec.—M. R. Kelly

AMERICAN STEEL CASTINGS CO., 410 No. Michigan Ave., Chicago, Ill.
PRODUCTS—Steel castings

AMERICAN STEEL FOUNDRIES. General office: 410 No. Michigan Ave., Chicago, Ill. Plants: Chester, Pa.; Franklin, Pa.; Pittsburgh, Pa.; Sharon, Pa.; Alliance, O.; Indiana Harbor, Ind.; Hammond, Ind.; East St. Louis, Ill.; and Granite City, Ill.
Pres.—Robert P. Lamont
1st V. Pres. Sales—George E. Scott
2nd V. Pres., Sales—Robert H. Ripley
3rd V. Pres., Sales—Warren J. Lynch
4th V. Pres., Opr.—L. C. Davis
Sec. and Treas.—F. E. Patterson
Asst. Sec. and Asst. Treas.—Wm. Epple
Comptroller—C. C. Jarchow
Pur. Agt.—T. E. Moritz
PRODUCTS—Railway specialties and miscellaneous steel castings

(At East St. Louis, Ill., Works, 2039 E. Broadway)
Works Mgr.—P. J. Ward
Asst. Works Mgr.—L. C. Farquhar
Supt.—C. Walcher
Gen Foreman Fdry.—I. E. Watson
Supt. O. H.—C. Foster
Works Eng.—L. V. Day
Asst. C. E.—A. V. Rudd
Chief Elec.—W. G. Luther
M. M.—J. Evans
Steam Engr.—L. W. Smith
Chief Met.—W. C. Hamilton
Chemist—C. R. Osland
Draftman—T. McCrary
Mason Foreman—R. C. Smith
Safety Insp.—H. Harmann
Employment Agt.—C. M. Hudson
Supply Agt.—L. S. Boisemenue
Storekeeper—J. Higgins
EQUIPMENT—Four O. H. furnaces
PRODUCTS—Railway steel castings

(At Granite City, Ill., Works)
Works Mgr.—E. Walcher
Asst. Works Mgr.—H. M. Rishel
Chief Engr.—L. C. Lucas
Pur. Agt.—A. L. Stevens
Supt. Open Hearth—M. Crabtree
Asst. Supt. Open Hearth—E. Crabtree
M. M.—B. E. Hodges
Supt. Wheel Dept. & Met.—J. W. Porter
Gen. Chief Chemist—W. C. Hamilton
Chemist—E. Cooper
Safety Insp.—C. L. Pinter
EQUIPMENT—6 open hearth furnaces
PRODUCT—Steel castings
Capacity—84,000 tons annually

(At Indiana Harbor, Ind., Works)
Works Mgr.—F. A. Lorenz
Asst. Works Mgr.—J. Suttie
Gen. Supt. No. 1 Fdry.—H. G. Voight
Gen. Supt. No. 2 Fdry.—W. H. Parker
Supt. O. H. No. 1—G. Dixner
Supt. O. H. No. 2—J. Duffy
Works Engr.—Herman O. Dratz
M. M.—W. Strom
Chemist—L. W. Bryant
Safety Insp.—W. F. Grebe
Supply Agt.—C. B. Johnson
EQUIPMENT—5 open hearth furnaces
PRODUCTS—Steel castings
Capacity—32,000 tons annually

(At Alliance, O., Works)
Works Mgr.—A. Robertson
Supt. O. H.—Edwin Carter
Mech Engr.—E. P. Kinne
Works Engr.—Hary E. Wheeler
M. M.—W. W. Scott
Chief Chemist—Floyd Dove
Employing Sec.—George O'Brien
Safety Insp.—George McConaghy
EQUIPMENT—7 open hearth furnaces
Capacity—72,000 gross tons annually

(At Chester, Pa., Works)
Works Mgr.—J. P. Begley
Works Eng.—T. M. Lloyd
Chief Elec.—L. C. Moeller

EQUIPMENT—3 open hearth furnaces
PRODUCTS—Steel castings
Capacity—22,500 tons annually

(At Pittsburgh, Pa., Works, 36th St. and A. V. R. R.)
Works Mgr.—H. F. Miller, Jr.
Asst. Works Mgr.—John A. Meyer
Supt. Fdry.—J. H. Zimmerman
Supt. O. H.—E. C. Eiffler
Mech. Engr.—C. Williams
M. M.—John Huston
Chemist—J. G. Hathorn
Chief Draftsman—G. H. Williams
Storekeeper—T. J. Bennett
EQUIPMENT—Two 10-ton open hearth furnaces
Railroad—Penna. siding
PRODUCTS—Steel castings
Capacity—6,000 tons per year

AMERICAN STEEL & WIRE CO., Rockefeller Bldg., Cleveland, O. Plants: seven at Cleveland, O.; Birmingham, Ala. San Francisco, Cal.; New Haven, Conn.; two at DeKalb, Ill.; two at Joliet, Ill.; Waukegan, Ill.; Anderson, Ind.; four at Worcester, Mass.; Trenton, N. J.; Salem, O.; Allentown, Pa.; Braddock, Pa.; three at Donora, Pa., Farrell, and Pittsburgh, Pa.
Pres.—Wm. P. Palmer
Asst. to Pres.—Wm. Thompson
V. Pres.—J. S. Keefe, Chicago
V. Pres. and Gen. Sales Agt.—F. Baackes, Chicago
Sec.—A. F. Allen
Treas.—J. R. Thomas, Chicago
Gen. Supt.—H. A. Barren
Asst. Gen. Supt.—J. Waldeck
Asst. to Gen. Supt.—L. J. Gray
Asst. to Gen. Supt.—E. Boley
Actg. Constr. Engr.—G. H. Rose
M. E.—B. H. Lawrence
Met.—F. C. Elder

(At Cleveland, O., Central Furnaces)
Gen. Supt.—C. C. Hill
Supt.—J. C. Hopkins
Asst. Supt.—H. B. Jordan
M. M.—M. McCune
Chief Elec.—S. L. Henderson
Chemist—J. R. Thompson
Chief Clerk—F. D. Seely

(At Cleveland, O., Newburgh Steel Wks.)
Gen. Supt. C. C. Hill
Asst. Supt. B. E. Pheneger
Head Draftsman—Wm. Hewey
Chief Elec.—Claire B. Skelly
M. M.—J. L. Kennedy
Chief Clerk—F. D. Seely
Head Chemist—W. F. Muehlberg

(At Cleveland, O., Newburgh Wire Wks.)
Supt.—Roger H. Sprout
Asst. Supt.—C. J. Malone
M. M.—W. J. Smith
Chief Elec.—H. D. Urban
Chief Draftsman—H. C. Ralston
Chief Clerk—A. W. Hickman

(At Cleveland O., E. 67th St., Consolidated Works)
Supt.—J. C. Vollman
Elec. Engr.—A. Price
M. M.—Paul Lange
Steam Engr.—Walter Manson

(At Cleveland, O., American Works)
Supt.—C. F. Kempert
Asst. Supt. S. E. Clapp
Chief Elec.—E. A. Quade
Chief Draftsman—G. A. Axline
Chief Clerk—J. W. Bartholomew

(At Cleveland, O., H. P. Works)
Supt.—F. W. Lorenz
Asst. Supt.—E. F. Brown
M. M.—J. D. Boster
Head Elec.—Bruce D. McCutcheon
Chief Clerk—D. W. Stinson

(At Cleveland, O., Cuyahoga Works)
Supt. J. T. Leach
Asst. Supt. B. H. Gedge
Chief Draftsman—W. J. Ralston
Chief Elec.—Morris L. Ruggles
Asst. Chief Elec.—Frank Marquart
Chief Clerk—A. B. Breitweg
M. M.—R. H. Trythall

(Birmingham, Ala., Fairfield Works)
Dist. Supt.—T. D. Temple
Asst. Supt.—A. E. Smith
M. M.—W. E. Lewis
Head Elec.—F. M. Sturgess
Chief Clerk—I. Morris

(San Francisco, Cal., Pacific Works)
Supt.—F. S. Phelps
M. M.—C. H. Parcell
Chief Clerk—C. F. Cooke

(New Haven, Conn., New Haven Works)
Supt.—M. W. Reed
Asst. Supt.—F. L. Haven
M. M.—E. J. Reardon
Draftsman—Henry Bormann
Head Elec.—C. E. Hines
Chief Clerk—F. E. Harrington

(DeKalb, Ill., DeKalb E. & W. Works)
Supt.—F. J. Whitgrove
Asst. Supt.—W. H. Wiard
M. M.—Charles Swanson
Elec.—Emil Lundgren
Chief Clerk—E. E. Woods

(DeKalb, Ill., DeKalb N. & S. Works)
M. M.—John Ohlson
Elec.—Mark Biehl
Chief Clerk—F. E. Woods

(Joliet, Ill., Scott St. Works)
Supt.—J. W. Berscheid
Asst. Supt.—R. E. Camp
M. M.—J. P. Mitchell
Head Elec.—H. Shipley
Chief Clerk—W. E. Stafford

(Joliet, Ill., Rockdale Works)
Supt.—H. R. Patterson
Asst. Supt.—Daniel Lynch

M. M.—J. A. Cocker
Head Elec.—J. J. Belvois
Chief Clerk—W. E. Stafford

(Waukegan, Ill., Waukegan Works)
Supt.—W. E. Acomb
Asst. Supt.—Jas. Darrow
M. M.—C. Ahlstrom
Elec.—A. W. Browne
Chemist—J. I. Prest
Chief Draftsman—R. L. Lewis
Chief Clerk—C. J. Sengenberger

(Anderson, Ind., Anderson Works)
Supt.—H. O'Connor
Asst. Supt.—E. C. Morrison
M. M.—Leroy Cottingham
Head Elec.—Charles Smith
Chief Clerk—G. P. Montgomery

(Worcester, Mass., North Works)
Supt.—Peter Stewart
Asst. Supt.—G. A. Green
M. M.—P. A. Dolan
Head Elec.—P. F. Drohan
Dist. Engr.—M. R. Fish
Chief Draftsman—W. Wallsten
Met.—R. C. Helm
Chief Clerk—A. L. Muir

(Worcester, Mass., South Works)
Supt.—C. F. Hood
Asst. Supt.—A. J. Hoyt
Dept. Foreman O. H.—W. Munford
Dept. Foreman, Rolling Mills—J. A. Skogsberg
M. M.—John Statz
Dist. Engr.—M. R. Fish
Head Elec.—W. L. Woodmansee
Head Draftsman—J. H. Swift
Head Chemist—Ernest Berggren
Chief Clerk—F. A. Bancroft

(Worcester, Mass., Central Works)
Supt.—E. F. Barnes
M. M.—J. A. Ashworth

(Worcester, Mass., Electrical Cable Wks.)
Supt. J. J. Morrison
Head Chemist—C. W. Walker
Chief Clerk—F. A. Bancroft

(Trenton, N. J., 80 Hamilton Ave., Trenton Works)
Supt.—Charles P. Vaill
Mach. Shop Supt. & M. M.—Wm. H. Zenk
Chemist—E. H. Hewitt
Engr.—A. S. VanHise
Draftsman—G. G. Greene
Asst. Darftsman—R. L. Smith
Storekeeper—E. B. Hunt

(At Salem, O., Salem Works)
Supt.—R. C. Garrison
M. M.—Edward B. Whitacre
Chief Clerk—P. J. Robb

(Allentown, Pa., Allentown Works)
Supt.—J. S. Phifer
Asst. Supt.—W. F. Bigge
M. M.—T. H. Trevena
Head Elec.—H. S. Baker
Head Draftsman—J. I. Baker
Chief Clerk—J. B. McClure

(Braddock, Pa., Braddock-Rankin Works)
Supt.—E. H. Broden
Asst. Supt.—F. B. Hill
M. M.—J. F. Jones
Head Elec.—J. W. Kilburn
Chief Draftsman—E. L. Truxal
Chief Clerk—L. Arnold

(Donora, Pa., Donora Steel Works)
Gen. Supt.—J. B. Clark
Asst. Supt.—A. F. White
Supt. B. F.—C. S. Folsum
M. M.—J. H. Eyman
Head Elec.—J. C. Boher
Head Chemist—A. G. Bussman
Chief Clerk—G. E. Koedel

(Donora, Pa., Donora Wire Works)
Supt.—A. Mann
Asst. Supt.—L. H. Miller
M. M.—H. A. Cox
Head Elec.—Allen Robinson
Chief Clerk—W. B. Cushing

(Donora, Pa., Donora Zinc Works)
Supt.—M. M. Neale
M. M.—H. A. Cox
Chief Chemist—W. E. O'Donnel
Foreman Elec. Dept.—J. C. Chadwick
Chief Clerk—W. B. Cushing

(Farrell, Pa., Works)
Supt.—Fred E. Gage
Asst. Supt.—G. C. Van Hoesen
M. M.—William Thompson
Head Elec.—J. E. Powers
Chief Clerk—W. M. Riedl

(At Pittsburgh, Pa., River Division)
Supt.—Capt. James Moren
Chief Clerk—Lloyd Arnold

AMERICAN SWEDO IRON CO., Harrison Bldg., Philadelphia, Pa. Furnace: Danville, Pa.
Pres.—Frank Samuel
Gen Mgr.—Walter S. Lovett
Treas. and Sec. and P. A.—Snowden Samuel
Capital—$100,000; issued, $75,000

(At Danville, Pa., Plant)
Supt. George W. Reed
M. M.—F. Evans
Chemist—Fred Gills
EQUIPMENT—Nine puddling furnaces
PRODUCTS—Low phosphorus bar and muck bar
Capacity—10,000 gross tons
Railroads—Reading, D. L. & W.

AMES & CO., W., 417 Communipaw, Jersey City, N. J.
Pres.—James W. Ames
Treas. and Sec.—A. S. Ames
Asst. Treas.—George H. Helmsdorfer
Fur. Agt.—W. J. Onderdonk
Supt. Roll Mills—J. E. Williams

Mech. Engr.—Lester N. George
EQUIPMENT — One Belgian 13-inch roughing and 10-inch finishing mills; spike and bolt plant
PRODUCTS—Bars, iron and steel, spikes, bolts, splice bars, tie rods, etc.
Capacity—25,000 tons annually

AMES SHOVEL & TOOL CO., 90 Ames Bldg., Boston, Mass. Rolling mill: Elwood, Ind.; shovel plants, Oliver Ames & Sons, Corp., North Easton, Mass.; T. Rowland's Sons, Inc., Cheltenham, Pa.; Wright Shovel Co. and The H. M. Myers Co., Anderson, Ind.; St. Louis Shovel Co., Sarah and Duncan Sts., St. Louis, Mo.; George Griffiths Co., Cheltenham, Pa.
Pres. and Gen. Mgr.—Alfred C. Howell
Asst. to Pres. and Sec.—S. S. Early
Asst. to Pres. of Sales—Walter H. Jenks
Vice Pres.—Oliver Ames
Treas. and Pur. Agt.—Roy F. Williams

AMES & SON CO., OLIVER., North Easton, Boston, Mass.
Asst. Mgr.—Edward P. Hartman

ROWLAND'S SONS, INC., T., Cheltenham, Pa.
Mgr.—F. H. Lewis

WRIGHT SHOVEL CO., and THE H. M. MYERS CO., Ames and Crystal Sts., Anderson, Ind.
Mgr.—Edwin T. Nipher
Power Plant Engr.—David Niblock
Foremen—J. W. Boerner, W. H. Redd, C. R. Abbott

ST. LOUIS SHOVEL CO., Sarah and Duncan Sts., St. Louis, Mo.
Mgr.—Ernest N. Birge

ELWOOD STEEL PLANT, Elwood, Ind.
Gen. Supt.—T. E. Palmer

ANACONDA COPPER MINING CO., Great Falls, Mont. Rolling Mill Department.
Supt.—W. S. Adams

ANCHOR DRAWN STEEL CO., P. O. Box 46, Latrobe, Pa.
Pres.—Roy C. McKenna
Vice Pres.—Geo. W. Morrison
Vice Pres. Floyd Rose
Treas.—Robt. E. Reed
Sec.—Fred Underwood
Gen. Mgr.—Harry W. Good
Supt.—John Cape
PRODUCTS—Cold drawn and tool steel specialties.
Capital—$200,000
Railroad—Penna., main line

ANDREWS STEEL CO., THE, Newport, Ky.
Pres.—Joseph B. Andrews
V. Pres., Sales—A. W. Hubbard
V. Pres., Opr.—A. K. Andrews
Sec.—F. M. Andrews
Treas.—Jos. Gaff Andrews
Sec.—Frank M. Andrews
Asst. to Pres.—W. H. Edgecomb
Pur. Agt.—R. K. Boggs
Gen. Supt.—Charles H. Sloan
Asst. Gen. Supt.—George L. Blackford
Supt. O. H.—E. A. Smith
Asst. Supt. O. H.—S. G. Clark
Supt. R. M.—A. J. Graf
Chief Elec. Engr.—M. M. McDonald
Gen. M. M.—Theodore Nielander
Met.—Wm. R. Fleming
Foreman Mach. Shop—A. R. Mitchell
EQUIPMENT — Eight open hearth furnaces, 34-in. blooming mill, sheet bar mill.
PRODUCTS—Special high grade forging billets and slabs, die block steel billets, alloy steel billets, including chrome, nickel, chrome nickel and chrome vanadium, also sheets, bars 7½ in. to 8 in. wide, 5-16 to 1⅜ in. thick, 2 to 30 ft. long.
Capacity—250,000 tons per year

ANTRIM IRON CO., 904 Michigan Trust Bldg., Grand Rapids, Mich. Furnace: Marcelona, Mich.
Pres., Treas. and G. M.—J. C. Holt
V. Pres.—T. J. O'Brien
Sec.—H. J. Bennett
Asst. Sec.—Elizabeth C. Hart

(At Marcelona, Mich.)

Plant Mgr.—R. W. Durrett
M. M.—J. N. Davison
Chemist—J. E. Lutz
Storekeeper—P. E. Medrow
EQUIPMENT—One blast furnace, two stoves; hardwood distillate plant
PRODUCT—Charcoal pig iron, methane, calcium acetate, hardwood lumber
Capacty—25,000 tons annually

APOLLO STEEL CO., 609-617 Warren Ave., Apollo, Pa.
Pres. and Gen. Mgr.—A. M. Oppenheimer
Asst. to Pres.—H. H. Holloway
V. Pres.—W. J. Guthrie
Treas. and Sec.—O. W. Oppenheimer
Asst. Treas. and Asst. Sec.—J. E. Gallagher
Pur. Agt.—G. T. McCarthy
Sales Mgr.—D. O. Wolf
Asst. Sales Mgr.—R. W. Carnahan
Asst. Gen. Supt.—J. H. Devries
Chief Engr.—L. W. Haag
Asst. Chief Engr.—H. S. Anderson
Chief Elec. Engr.—W. P. Stark
M. M.—A. B. Montgomery
Chief Chemist—W. H. Ritchey
Chief Draftsman—R. R. Cuthbert
Safety—W. P. Stark, G. A. Morrow and A. B. Montgomery
Foreman Roll Shop—John Zmmerman
Foreman Machinist—G. A. Morrow
Storekeeper—John Box
EQUIPMENT—11 sheet mills, 2 jobbing mills, 6 galvanizing pots
PRODUCTS—Blue annealed, O. P. C. R. and box annealed, galvanized steel sheets,

also single pickled all in flat or corrugated
Capacity—125,000 tons per year
Railroad—Penna.

ARIZONA IRON WORKS, Phoenix, Ariz.

ARNESON FOUNDRY CO., Kenosha, Wis.
Owner and G. M.—Ole A. Arneson
Asst. Gen. Mgr.—Thomas J. Arneson
Gen. Supt.—John Schweitzer
EQUIPMENT—One 1-ton converter
PRODUCTS — Miscellaneous machinery, castings
Capacity—3,000 tons annually
Not incorporated
Railroads—C. & N. W., C. N. S. & M. Ry., T., M., E., R. & L.

ARNOLD'S IRON AND STEEL MILLS, 1736 E. 8th St., Oklahoma City, Okla.
Pres. and Gen. Mgr.—James W. Arnold
Treas. and Sec.—J. E. Arnold
Pur. Agt.—S. R. Arnold
EQUIPMENT—16-inch roughing and 10-inch finishing mills. Belgian type.
PRODUCTS—Reinforcing rods and merchant bars
Capacity—50 tons daily
Capital—$50,000; issued, $30,000
Railroad—M. K. T.

ASHTABULA SHEET STEEL CO., Ashtabula, O.
Pres.—W. H. Davey, Mansfield O.
V. Pres. Charge Opr.—Samuel Davey
V. Pres. and Works Mgr.—Evan M. Jones
Treas., Sec. and Pur. Agt.—A. I. Davey, Mansfield, O.
Asst. Treas. and Asst. Sec.—W. R. Jenkins, Mansfield, O.
Chief Clerk—E. J. Secrest
PRODUCTS—Sheet steel, blue annealed, one pass cold rolled box annealed, single pickled, one pass, two or three pass full pickeled, full cold rolled, auto body sheets, deep drawing, extra deep drawing sheets, limed or oiled.

ATHENIA STEEL CO., THE. General Office: 135 William St., New York City. Plant: Clifton, N. J.
Pres.—Ferdinand Wilckes
Vice. Pres.—August Fornelius
Sec. Pur. Agt. and Asst. G. M.—Edward M. Bath
Treas.—E. Von Berlo
Asst. Treas.—Walter H. Dodd

(At Clifton, N. J., Plant)
Gen. Supt.—Arvid Fornelius
Chief Elec. Engr., M. M. and Steam Engr.—Carl Falk
Draftsman—John Fornelius
EQUIPMENT—Cold rolling mills and tempering furnaces
PRODUCTS—Cold rolled and tempered steel
Railroads—D. L. & W.

ATLANTIC FOUNDRY CO., 182 Beaver St., Akron, O.
Pres., Treas. and P. A.—Charles Reymann, Sr.
Vice Pres.—Philip Wilenbacher
Sec.—E. R. Knecht
Asst. Treas.—Evald Erikson
Gen. Mgr.—Norman Daub
Gen. Supt.—Charles Reymann, Jr.
Chief Engr.—Frank Caillet
Elec. Engr.—Edward Hoover
EQUIPMENT—3-ton Snyder furnace
Capacity—200 tons per month steel castings; 750 tons per month iron castings.
Railroads—Belt Line R. R., connecting with B. & O., Penna., Erie, N. Y. C. lines

ATLANTIC STEEL CO., P. O. Box 1714, Atlanta, Ga.
Chairman—T. K. Glenn
Pres.—Robert Gregg
Vice Pres. and G. M.—N. C. Harrison
Vice Pres., Sales—C. F. Stone
Treas.—Paul W. Miller
Sec.—G. A. Howell
Pur. Agt.—G. W. Ramey
Supt. O. H. and Bloom Mill—G. D. Walters
Supt. Roll and Wire Mill—C. L. McGowan
Asst.—Supt. Roll Mill—R. M. Lang
Supt. Hoop Mill—E. E. Schukraft
Supt. Mach.—J. H. Sneed
Brick Supt.—L. W. Wade
Chief Engr.—R. H. Lowndes
Asst. Chief Engr.—M. A. Wilson
Chief Elec.—G. E. Thrash
Mech. Engr.—R. E. Bobbitt, Jr.
Steam Engr.—M. P. Lawton
Safety Engr. C. J. Vandeventer
M. M.—S. N. Roberts
Chief Chemist—C. G. Schenck
Chief Draftsman—M. A. Wilson
Roll Designer—D. A. Lennox
Storekeeper—C. Bradley
EQUIPMENT—50-ton basic open hearth furnace with waste heat boilers, 2 furnaces on producer gas, 1 furnace on oil or pulverized coal; one 25-inch motor driven 2 high reversing blooming mill; 8 soaking pits, pulverized coal fired; one 6-stand 14-inch continuous billet mill; motor driven; one 10-inch, 5-stand motor driven hoop and cotton-tie mill; one 8-inch 5-stand motor driven cotton tie and small hoop mill; one 12-inch, 10-inch, 8-inch Morgan rod and merchant bar mill, motor driven; 80-wire drawing blocks; 2 galvanizing frames, one 18 blocks, one 32 blocks; 56 nail machines, 2 staple machines, 7 woven wire field fence machines, 20 barb-wire machines, with necessary shops, boiler houses, power houses, etc.
PRODUCTS—Cotton ties, hoops, bands, angles, channels, half rounds, half ovals, rods. merchant bars, billets, plain wire, galvanized wire, nails, staples, barbed wire, field fence, bale ties, galvanized nails, blued nails.
Capacity—100,000 tons ingots per year

Capital—$1,700,000; bonds outstanding, $757,000
Railroads—Eight lines

ATLANTIC STEEL CASTING CO., THE, 6th and Lloyd Sts., Chester, Pa.
Pres.—W. A. Faison
V. Pres. and G. M.—R. S. Munson
V. Pres., Sales—E. V. Powell
Treas.—T. J. Sproul
Sec. and Asst. Treas.—P. J. Mauer
Pur. Agt.—J. W. Cuddy
Gen. Supt.—J. M. Schabach
Supt. O. H.—P. McKinney
Asst. O. H. Supt.—John Cullen
Engr.—L. B. Dunnigan
M. M.—N. S. Rhoads
Chemist—Thomas Feeley
Storekeeper—J. W. Bradley
EQUIPMENT—One 10-ton O. H. furnace
PRODUCTS—Steel castings
Capacity—9,000 tons per year
Capital—35,000 shares no par value
Railroads—Penna., B. & O., P. & R.

ATLAS STEEL CORP., Dunkirk, N. Y.
Chairman—R. J. Gross
Pres.—A. F. Dohn
Vice. Pres.—C. P. Burgess
Vice Pres. and Gen. Mgr.—F. B. Lounsberry
Vice Pres. and Treas.—H. E. Nichols
Sec. and Pur. Agt.—Walter Bould
Asst. Treas. and Asst. Sec.—L. H. Mattison
Gen. Supt.—C. W. Spittal
Supt. Blooming and Fin. Mills—W. A. Jackson
Supt. of Melting—J. N. Brookfield
Chief Engr.—M. R. Rose
Chief Elec. Engr.—L. R. Phelps
Met.—W. H. Wills
Chief Chemist—W. T. Hartley
Safety Insp.—F. A. Reil
Draftsman—V. Gloff
Storekeeper—F. H. Farnum
EQUIPMENT—Electric and crucible furnaces; one 20-inch, one 14-inch, two 10-inch mills; hammers and wire drawing machinery
PRODUCTS—Tool and alloy steel bars and cold drawn steel
Capacity—15,500 tons per year
Capital—15,000 shares preferred; issued, 3,240; 30,000 shares common; bonds issued, $1,561,900
Railroads—Penna., Nickel Plate, N. Y. C. and Erie

ATLAS STEEL CASTING CO., 1963 Elmwood Ave., Buffalo, N. Y.
Pres.—G. H. Chisholm
Vice Pres. and G. M.—E. C. Strong
Sec. and Pur. Agt.—H. L. Chisholm
Treas.—C. R. Wyckoff
Gen. Supt.—J. A. Logan
Gen. M. M.—W. Hartel
Chemist—W. Haendiger
EQUIPMENT—Two open hearth furnaces
PRODUCT—Steel castings
Capacity—14,000 tons annually

AURORA FOUNDRY CO., 322 First Ave., So. Seattle, Wash.
Vice Pres.—E. H. Hutchison
Treas. and Pur. Agt.—George F. Haag
Sec.—D. Danneman
Supt.—M. G. Tennent
PRODUCTS—Steel castings

B

BABCOCK & WILCOX TUBE CO., THE, 47th St., Beaver Falls, Pa.
Pres.—A. G. Pratt
Vice Pres.—I. Harter, New York City
Treas. and Sec.—F. J. Cluley
Assts. to Sec.—Wm. Sheldrich and F. L. Ward, New York City
Pur. Agt.—T. M. Peckstein
Supt.—H. H. Murray
Asst. Supt.—L. E. Sawyer
M. M.—W. F. McCleary
PRODUCTS—Seamless steel tubes, hot finished and cold drawn for boilers and mechanical purposes from 5½-inch down to about 1½-inch in O. D. and seamless pipe from 1 inch to 5 inches.
Capital—$1,200,000
Railroads—Penna.

BALKWILL MANGANESE CROSSING CO., 2740 Fairmont Blvd., Cleveland, O.
Pres.—Stephen Balkwill

BALTIMORE MALLEABLE IRON & STEEL CASTING CO., Charles and Wells Sts., Baltimore, Md.
Pres. and Treas.—Joseph P. Kennedy
Vice Pres.—Francis Kennedy
Sec.—K. M. Kaltenbach
Pur. Agt.—Francis J. Flynn

BALTIMORE & OHIO R. R. CO. Rolling Mill, at Cumberland, Md.
Supt. Roll Mill—C. T. Carney

BALTIMORE TUBE CO., 1301 Wicomico St., Baltimore, Md.
Chemist—Edward M. Kennard

BANCROFT & MARTIN ROLLING MILLS CO., South Portland, Me.
Pres.—William E. Clark
Treas. and Gen. Mgr.—Kenneth T. Burr
Pur. Agt.—Harry Anderson
Gen. Supt.—John B. Conner
Supt. Roll Mill—O. E. Clark
Chief Engr.—W. S. Anderson
Capacity—25,000 gross tons
Capital—$240,000; bonds issued, $60,000
Railroads—B. & M., M. C. and G. T.

BARNES COMPANY, WALLACE, Bristol, Conn.
PRODUCT—Steel strip for springs

BARTLETT & SNOW CO., C. O., 6200 Harvard Ave., Cleveland, Ohio.
Pres. and Treas.—W. S. Lister
Vice Pres. and Gen. Mgr.—H. S. Hersey
Vice Pres.—I. S. Osborn
Sec.—H. L. McKinnon

Asst. Treas.—J. Q. Markin
Pur. Agt.—C. R. Wilson
Works Mgr.—C. J. Neville
Prod. Mgr.—H. A. Christy
Chief Engr.—M. E. First
Chief Draftsman—R. M. Gerstacker
PRODUCTS—Skip hoists, sprocket chains and wheels, gears, conveying and elevating equipment, coal and ash handling machinery.
Capital—$551,200; bonds issued $150,000.

BAY CITY ELECTRIC STEEL CASTING CO., Foot of Trumbull St. Bay City, Mich
Pres.—S. S. Fair
Treas.—E. M. Mills
EQUIPMENT—Electric furnace
PRODUCTS—Electric steel castings
Capacity—20 tons per day
Co-partnership
Railroads— M. C., P. M., G. T., Mich. Ry. Co.

BAY VIEW FOUNDRY CO., Water and McDonough Sts., Sandusky, O.
Pres. and Treas.—E. L. Marsh
Vice Pres.—A. J. Wentworth
Sec. and Asst. Treas.—C. C. Teasel
PRODUCTS—Steel, semi-steel gray iron, brass, bronze and aluminum castings

BEAUMONT IRON WORKS CO., Crockett Ave., Beaumont, Tex.
Chairman—L. J. Black
Pres. and Gen. Mgr.—A. I. Brainard
Vice Pres.—Charles Paggi
Treas. and Sec.—Charles B. Sheeks
Asst. Treas. and Asst. Sec.—N. G. Nuttall
Pur. Agt.—Chas. Worthen
Chief Engr.—L. J. Black
Elec. Engr.—J. T. Shoemaker
M. M.—A. L. Morel
Draftsman—W. H. McChesney
Plant Supt.—E. J. Roach
Foreman Forge Dept.—S. B. Crouch
Foreman Iron & Steel Fdry.—G. A. Fields
Foreman Pattern Shop—F. A. Doyle
Foreman Machinist— A. G. Phiefer
EQUIPMENT—Electric steel furnace, grey iron cupola.
PRODUCT—Oil field machinery.
Capital—$700,000
Railroads—Gulf Coast, Santa Fe, Southern Pacific

BEAVER ALLOY FOUNDRY CO., Monaca, Pa.
Pres.—C. S. Marshall
Vice Pres. and G. M.—W. L. Forster
Treas.—C. E. Coleman
Sec.—R. A. Haddock, Jr.
PRODUCTS—"Beavalloy" metal and alloy castings

BECKER STEEL CO. OF AM., 154 Nassau St., New York, N. Y. Plant: Charleston, W. Va.
Pres.—Walter B. Comfort
Treas. and Sec.—Douglas Nicholson

BELFONT STEEL & WIRE CO., Ironton, O. Consolidated with Kelly Nail & Iron Co.
Pres. and Gen. Mgr.—I. P. Blanton
Vice Pres.—S. G. Gilfillan
Treas.—John C. Brown
Sec. and Pur. Agt.—T. J. Hayes
Auditor—H. M. Forman
Gen. Supt.—I. A. Ryan
Asst. Gen. Supt.—G. A. Mayne
Supt. B. F.—George F. Kerwin
Chief Engr. and M. M.—J. Williams
Steam Engr.—George Williams
Elec. Engr.—Albert Lawless
Chemist—R. Loyer
Foreman—Wm. Brady
Foreman—J. Mayne
Foreman Machine Shop—Howard Jacobs
EQUIPMENT—Two blast furnaces, wire drawing plant, wire nail plant
PRODUCTS—Nails, wire, barbed wire and pig iron
Capacity—100,000 tons pig iron, 1,000,000 kegs of nails, 16,000 tons of wire
Capital—$5,000,000

BELLE CITY MALLEABLE IRON CO., Forest St., Racine, Wis.
Pres.—Judson F. Stone (inactive)
Vice Pres., Sec. and G. M.—C. S. Anderson
Treas.—S. Kitto
Asst. to Sec.—J. M. Stone
Supt.—N. E. Jolman
Chief and Elec. Engr.—Chas. Finn
M. M.—R. Anderson
Met.—D. P. Spencer
Safety Engr.—E. O. Jones
EQUIPMENT—Four 20-ton air furnaces
PRODUCTS—Certified malleable iron castings from customers' patterns

BERGER MFG. CO., THE, 1038 Belden Ave., N. E., Canton, O. (Subsidiary of Central Alloy Steel Corp.)
Pres. and Gen. Mgr.—S. S. French
Asst. to Pres.—J. B. Montgomery, II
Treas. and Sec.—Geo. B. Harlan
Gen. Sales Mgr.—Geo. P. Galvin
Pur. Agt.—C. J. Gresser
Works Mgr.—F. A. Schmitz
Chief Engr.—Paul Vignos
Master Mechanic—Thos. A. Sindelar
Storekeeper—J. L. Curran
PRODUCTS—Metal lumber, metal lath, corrugated culverts, ceilings, equipment, lockers, bins and shelving, etc.
Capacity—100,000 tons per year
Capital—$100,000, all issued
Railroads—Penna., W. & L. E. and B. & O.

BERRY IRON & STEEL CO., Oak and Fifth Sts., St. Joseph, Mo.
Pres. and Treas.—G. D. Berry
Sec.—H. L. Brooks
Pur. Agt.—C. C. McDonald
Gen. Supt.—James E. Porter
M. M.—P. Awender
Met.—S. D. Tuthill
PRODUCTS—Railroad castings, cast iron and steel

BESSIE FURNACE CO., Columbus, O.
Furnace: New Straitsville, O.
Pres. and Treas.—Caleb L. McKee
Sec.—Mr. Donahue

(At New Straitsville, O., Furnace)
Supt.—Joseph Blankenship

BEST STEEL CASTING CO., INC., 105th Ave., Oakland, Cal.
Pres. and G. M.—H. H. Whiting
Vice Pres.—John Tuohy
Treas.—G. A. Gunn
Sec.—Violet Purcell
Pur. Agt.—Walter W. Silva
Gen. Supt. Steel—J. D. Genger
Gen. Supt. Iron—U. L. Marchal
Chief Engr., Elec. Engr. and M. M.—P. Bordanaro
Met. and Chemist—G. Van Dewater
EQUIPMENT—Two 2-ton Bessemer furnaces, one 6-ton Heroult, one 1-ton Rennerfeldt electric furnace
PRODUCTS—Rough iron and steel castings
Capacity—12,000 tons iron and 10,000 tons steel castings
Captial—$1,000,000
Railroad—Southern Pacific

BETHLEHEM STEEL CORP. General offices: Bethlehem, Pa. Plants: Bethlehem, Steelton, Coatesville, Johnstown and Lebanon, Pa.; Sparrows Point, Md.; Lackawanna, New York
Chairman—Charles M. Schwab
Pres.—E. G. Grace
Asst. to Pres.—J. M. Larkin
Vice Pres.—H. E. Lewis
Vice Pres.—Joseph J. Tynan
Vice Pres.—C. A. Buck
Vice Pres.—Quincy Bent
Sec.—R. E. McMath
Asst. Sec.—N. Berkeley
Treas.—W. F. Hartmann
Asst. Treas.—W. L. Achenbach
Compt.—F. A. Shick
Asst. Compt.—W. L. Louis
Mgr. Structural and Plate Sales—G. H. Blakeley
Mgr. of Ordnance—G. W. Struble
Gen. Sales Agt.—E. S. Knisely
Pur. Agt.—C. R. Holton
Gen. Traffic Mgr.—J. M. Gross
Met. Engr.—Harry T. Morris
Engr. Combination—H. C. Siebert
Engr. Refractories—W. H. Kelly
Engr. Mill and Roll—D. L. Eynon

(At Lehigh Plant, Bethlehem, Pa.)
Gen. Mgr.—R. A. Lewis
Supt. B. F.—George M. Hohl
Asst. Supt. B. F.—A. H. Fosdick
Supt. O. H. No. 1 and 3—T. L. Jaeger
Asst. Supt. O. H. No. 3—Harry Davis
Supt. Roll Mill—J. P. Bennett
Div. Supt.—C. R. Ellison
Div. Supt.—J. M. Sylvester
Supt. Yards—W. V. Heasley
Supt. Forge Shop and Fdry.—J. M. Sylvester
Chief Engr.—C. E. Lehr
Asst. Chief Engr.—W. P. Jones
Chief Elec. Engr.—D. M. Petty
Asst. Elec. Engr.—K. M. Raynor
Engr. Tests—A. P. Spoore
Prod. Engr.—Charles Schenck
Experimental Engr.—R. J. Kiverr
M. M.—H. S. Walker
Steam Engr.—T. A. Lewis
Met.—W. R. Shimer
Chief Chemist—Wm. Luntz
Chief Draftsman—W. J. Phillips
Safety Engr.—George Vary
B. F. Designer—A. W. Clemens
Roll Designer—W. T. Miller

(At Saucon Division, Bethlehem, Pa.)
Supt.—S. J. Cort
Supt. O. H. No. 2—V. J. Pazetti
Supt. Roll Mills—W. J. Thomas
Supt. Fabricating Shop—A. C. Morgan
Supt. Finish. Dept.—George Todd
Supt. Shape Mill—P. A. Shulz
Supt. Standard Mills—Frank Snyder
Supt. Elec. Dept.—A. J. Standing
M. M.—C. W. Schuler
Supt. Roll Shop—George Aykroyd
Supt. Labor—J. O. Gross
Safety Insp.—M. C. Hanssen
Engr. Tests—H. O. Jones

(At Sparrows Point, Md., Plant)
Gen. Mgr.—W. F. Roberts
Asst. Mgr.—R. B. Gerhardt
Supt. Blast Furnace—J. E. Sullivan
Asst. Supt. B. F.—C. T. Hoffman
Supt. Blooming and Cont. Mill—John Rock
Supt. O. H. and Bessemer—E. A. Wheaton
Supt. Coke Plant—R. C. Glazier
Supt. Plate Mill—Frank Rogers
Supt. Rod and Wire Mill—John Mordica
Chief Engr.—H. C. Lane
M. M.—L. F. Coffin
Supt. Elec. Dept.—F. U. Schnute
Safety and Welfare—H. C. Price
Engr. Tests—Edwin Barnhart

(At Lackawanna, N. Y., Plant)
Gen. Mgr.—Timothy Burns
Asst. Gen. Mgr.—George W. Whitehead
Supt. Roll Mill—George A. Barclay
Supt. B. F.—W. E. Keogh
Supt. Coke Ovens—A. H. Harris
Steel Div.—Clyde Denlinger
Supt. O. H. No. 1—J. A. Creighton
Supt. O. H. No. 2—B. P. Wheeler
Supt. No. 1 Mill—Willard H. Burgard
Supt. Nos. 2 and 12 Mills—G. Thiess
Supt. Nos. 4 and 5 Mills—John Curtin
Supt. Nos. 6, 9, 10 and 14 Mills—R. Hough
Supt. Nos. 7 and 8 Mills—F. S. Escott
Supt. Spike, Bolt and Nut Works—S Davidson
Supt. Roll Dept.—C. R. Phipps
Chief Engr.—W. A. James
Steam Engr.—E. E. Kiger
Supt. Mech. Dept.—Edward Clarke
Supt. Elec.—Frank D. Eagan
Asst. Elec. Engr.—Robert Graham
Supt. Docks—C. Jacobson
Supt. Yards—F. J. Robinson
Met.—Charles R. Perkins

Engr. of Tests—H. J. Cutler
EQUIPMENT—
Blast Furnace—Stoves, 26 central combustion chamber type and 10 side combustion, 4 for each furnace; stacks, 9
Steel Mill—Open hearth furnaces, 22 stationary, 2 tilting; gas producers, 48 in open hearth furnaces, 39 in mills; number of cranes, 218 electric and 9 Gantry
Types and No. of Mills—One rail mill, 3 structural mills, one slab mill, one plate mill, one blooming mill, one sheet bar and billet mill, 3 merchant mills and splice bar and tie plate mill
Power Plant—Gas and steam engines; horsepower 50,000 gas engine, 18,000 steam engine, 7,000 kw. turbo-generator and 12,500 kw. unit installed
PRODUCTS—Rails, tie plates, splice bars, spikes, bolts, structural material, plates, merchant bars, sheet bars, billets, forgings, steel sheet piling, ingot molds
Capacity—Approximately 1,341,000 tons finished product annually
Fuel—Coke, 1,000,000 tons; coal, 400,000 tons; powdered coal plant, about 4,500 tons used
Railroad—South Buffalo Railway Co.

(At Coatesville, Pa., Plant)

Gen. Mgr.—H. A. Whitaker
Supt. B. F.—P. F. Dolan
Supt. Flanging Dept.—Howard Fairweather

(At Cambria Works, Johnstown, Pa.)

Gen. Mgr.—L. R. Custer
Asst. Gen. Mgr.—F. A. Scammell
Asst. to G. M.—S. O. Evans
Mgr. Rep.—C. L. Baker
Plant Pur. Agt.—E. O. Murry
Works Acct.—B. A. Blume
Asst. Works Acct.—Irvin Penrod
Supt. B. F.—R. McEldowney
Asst. Supts. B. F.—Ben Harlan and Gordon R. Bear
Supt. O. H. and Bess.—O. G. Broadbelt (lower works)
Supt. Lower Works—J. V. Symons
Supt. Rod and Wire Mill—H. H. Phillips
Supt. Steel Car and Struct.—B. F. Faunce
Asst. Supt. Car Dept.—L. C. Pritner
Supt. Wheel Plant—P. J. Scott
Asst. Supt. Wheel Plant—A. W. O'Leary
Supt. Fdry.—E. L. Patch
Supt. Coke Wks.—H. M. Crossett
Safety Engr.—J. A. Northwood
Chief Engr.—R. H. Stevens
Asst. Chief Engr.—W. C. Frank
Supt. Mech. Dept.—F. E. Howells
Asst. Supt. Mech. Dept.—Geo. W. Rodgers
Supt. Order Dept.—F. E. Thompson
Eng. Tests.—L. H. Winkler
Asst. Eng. Tests—Earl Penrod
Chief Elec. Engr.—W. E. Miller
Asst. Supt. Elec.—Frank W. Cramer
Steam Engr.—E. W. Trexler
Chief Chemist—W. E. Steiner
Engr. Maint.—Harry Greer
M. M., Coke and B. F.—Charles Hoover
M. M.—W. H. Rodgers
M. M. Wire Mills—J. D. Miller
Foreman Roll Shop—J. G. Cranston
Cashier—B. J. Picking
Supt. Transp.—H. E. Trout
Gen. Storekeeper—H. F. Blough
Foreman Masons—Charles Tredennick

(At Franklin Works, Johnstown, Pa.)

Supt. O. H. and Mills—L. F. Quigg
Supt. Mills—H. A. Marley
Supt. O. H.—H. R. Coulson

(At Gautier Works, Johnstown, Pa.)

Supt.—D. S. Muckley
Asst. Supt.—W. H. Bennett
M. M.—A. B. Stutzman
Foreman Roll Shop—Floyd A. Day

(At Lebanon, Pa., Plant)

Gen. Mgr.—John Penn Brock
Asst. Gen. Mgr.—J. H. Edmonds
Supt. B. F.—C. T. Edwards
Supt. Roll Mill—W. H. Catterall
Chief Engr.—J. O. Kinney
Supt. Bolt and Nut Plant—J. L. Swayze
Supt. Coke Plant—E. R. Christian
Elec. Engr.—Harry Holles
Met.—F. O. Kichline

(At Steelton, Pa., Plant)

Gen. Mgr.—Frank A. Robbins, Jr.
Asst. Gen Mgr.—E. F. Entwisle
Supt. Coke Ovens—B. W. Winship
Asst. Supt. Coke Ovens—Chas. Thornton
Supt. B. F.—William G. Binder
Asst. Supt. B. F.—J. A. Canning, Jr.
Supt. O. H.—E. C. Taggart
Asst. Supt. O. H.—J. W. Magoun
Supt. Rolling Mills—John C. Craig
Supt. S. & H. R. R. Co.—J. H. McDonald
Supt. Gen. Labor—G. R. Cover
Supt. Bridge Dept.—J. H. Myers
Supt. Frog and Switch Dept.—G. S. Vickery
Supt. Steel Fdry.—W. W. Cooper
Asst. Supt. Steel Fdry.—E. R. Howells
Supt. Forge Dept.—H. B. Hain
Chief Engr.—W. T. Drake
Safety Engr.—J. H. Butler
Elec. Engr.—J. C. Reed
Asst. Elec. Engr.—G. J. Walz
Works Account—M. R. Weber
Met., Engr. of Tests—H. B. Bent
Roll Designer—A. F. Nelson
Gen. Storekeeper—C. E. Shope
Chief Clerk to Gen. Mgr.—H. W. Zook
Blast Furnace M. M.—A. A. Mowery
Open Hearth M. M.—C. F. Beck
Chemist—G. P. Vanier
Mec. Engr.—Geo. S. Comstock

BETTENDORF COMPANY, Bettendorf, Iowa

Pres. and Treas.—J. W. Betendorf
Vice Pres., Sales—J. H. Bendixen
Asst. to Vice Pres., Sales—W. J. O. Clasen
Sec.—E. J. Bettendorf
Pur. Agt.—F. M. Goddard
Gen. Supt.—P. Bendixen
Supt. Car Dept.—W. McMann
Supt. Fdry.—R. L. Eichman
Supt. O. H.—C. W. Veach
Chief Engr.—F. W. Lewis

Mech. Engr.—R. Leppla
M. M.—P. W. Reck
Elec. Engr.—C. Beilenberg
Steam Engr.—August Schoendelin
Met.—R. V. Froude
Chemist—M. H. Bendixen
Foreman Elec.—Wm. McGregor
Foreman Fdry.—C. Kropp
Foreman Car Dept.—Theodore Lautau
Storekeepers—H. Kellogg, J. Baker and E. Hunter
EQUIPMENT—Seven 25-ton O. H. furnaces
PRODUCTS—Steel freight cars and steel castings for cars
Capacity—75,000 tons castings and 8,000 cars
Railroads—C. B. & Q., C. M. & St. P., C. R. I. & P. and C. D. & M.

BIRDSBORO STEEL FOUNDRY & MACHINE CO., Birdsboro, Pa.
Pres.—Robert E. Brooke
Vice Pres.—Geo. Brooke
Vice Pres. and Gen. Mgr.—John E. McCauley
Vice Pres. & Works Mgr.—Marshall Post
Treas.—George Brooke, III
Sec.—George L. Alston
Pur. Agt. Supplies—John K. Klink
Pur. Agt. Metals—Robert F. Rentschler
Supt. Machine Shop and Maintenance—Robert E. Power
Supt. No. 1 Fdry—John Rhoads
Supt. No. 2 Fdry.—John Potter
Supt. Roll Fdry.—John Sherker
Supt. O. H.—Harry E. Massey
Chief Engr.—Edward Peterson
Hydraulic Sales Engr.—H. P. Laussucq
Mgr. Steel Casting Sales—R. A. Cannon
Met.—W. C. Harris
EQUIPMENT—Steel foundry; three 25-ton acid open hearths; roll foundry; air furnace, cupola and complete annealing unit; machine shop; modern tools
PRODUCTS—Freight car truck bolsters, side frames, draft arms and yokes; locomotive engine frames and wheel centers; miscellaneous locomotive and car castings; miscellaneous steel castings of all descriptions from one pound up to 100,000 pounds; special alloy steel castings; all types of rolls including chill, sand, steel, special alloy, durite and Birdsboro Special; hydraulic machinery, steel works machinery, rubber machinery, high pressure valves and Buchanan crushing and concentrating machinery
Capacity—25,000 tons steel castings; 6,000 tons rolls; machining up to 15 ft. in width and 23 feet diameter
Railroads—Schuylkill Div. P. R. R., main line W. & N. Div. Reading Co.

BLACKWOOD ELECTRIC STEEL CORP., Parkersburg, W. Va.
Pres.—E. A. Brast
Vice Pres.—B. W. Miller
Treas., Sec. and Pur. Agt.—C. H. Kibby
Gen. Supt.—H. S. Oldfield
Supt. Fdry—Wayne Shephard
Chief Met.—B. W. Miller
Asst. Gen. Supt.—Al Jacks
Foreman Machinist—Guy Miller
Storekeeper—Earl Smith
EQUIPMENT—Moore electric furnace
PRODUCTS—Steel castings, electric process
Capacity—200 tons per month
Capital—$250,000; issued, $150,000; bonds issued, $50,000
Railroads—B. & O., boat shipments Ohio river

BLANDON ROLLING MILL, INC., Blandon, Pa.
Pres.—H. A. Smink
Vice Pres.—William Seyfert
Treas.—Heber L. Smith
Sec.—S. E. Pflum
Gen. Mgr.—G. Howard Bright
EQUIPMENT—One 11-inch skelp mill; one 8-inch skelp mill; 6 double and one single puddling furnaces; 4 heating furnaces; one 18-inch 2-high puddling mill
Capacity—8,000 tons muck bar; 20,000 tons of skelp
Capital—$37,500
Railroads—Eight miles from Reading, Pa., East Penn branch Reading R. R.

BLISS & LAUGHLIN, INC., Harvey, Ill.
Pres.—Paul J. Kalman
Vice Pres. and G. M.—Walter R. Howell
Treas.—Howard H. Hersey
Sec.—H. W. Lillengren
Asst. Vice Pres.—Ward P. Mitchell
Gen. Supt.—P. H. Metzler
PRODUCTS—Cold drawn steel and turned polished shafting
Capital—$1,000,000

BONNEY-FLOYD CO., THE, Columbus, Ohio
Pres. and Treas.—John L. V. Bonney
Vice Pres., Sec. and G. M.—Walter B. Floyd
Pur. Agt.—Charles F. Stephen
EQUIPMENT—Steel foundry; 2 15-ton O. H. furnaces; two 5-ton electric furnaces
PRODUCTS—Steel castings
Capacity—18,000 tons annually
Railroads—N. Y. C., Penna., B. & O., H. V. and N. & W.

BOOM BOILER & WELDING CO. THE, Main and Elm Aves., Cleveland, Ohio. Plant at 1206 Main Ave.
Pres. and Gen. Mgr.—W. B. Boom
Vice Pres.—J. G. Boom
Treas. and Gen. Supt.—H. Halverson
Sec.—J. M. Tolmie
Supt.—W. H. Heller
Chief Engr.—C. D. Vogt
Elec. Engr.—S. Van Munthie
Foreman Machinist—Joseph Denny
Foremen—Jake Roth and Amil Northam
Storekeeper—Geo. Heller
PRODUCTS—Welding, electric, oxy-acetylene and thermit, machine work.
Capital—$30,000

BOURNE FULLER CO., Upson Works, Cleveland, O.
Pres.—R. S. Hall
Vice Pres. Opr.—J. E. Kreps
Vice Pres.—L. H. Elliott and F. K. Moore
Sales Mgr.—H. H. Pleasance
Vice Pres. and Treas.—L. H. Elliott
Sec.—M. L. Hopkins
Pur. Agt.—A. H. Preston
Gen. Supt.—N. K. Hartford
Supt. B. F.—H. J. Allen
Supt. O. H.—Robert Cain
Supt. Roll Mill—W. H. Watkins
Supt. Bolt and Nut Works—H. Ellison
Chief Engr.—Willard Brown
Chief Elec Engr.—A. L. Reickert
Mech. Eng.—L. F. Milligan
M. M.—R. Inglis
Met.—H. D. Burket
Chief Draftsman—W. H. Bradley
Roll Designer—J. E. Mann
Storekeeper—A. C. Bourne
EQUIPMENT—Blast furnace, open hearth, rolling mills, bolt and nut shop
PRODUCTS—Pig iron, billets, bars, nuts and bolts
Capacity—Pig iron, 10,000 tons monthly; billets, 25,000 tons; bars, 22,000 tons; nuts and bolts, 5,000 tons
Capital—$25,000,000; issued, $19,000,000
Railroads—Big 4, Erie direct and all Cleveland connections

(At Cleveland, O., Union Mills)
Vice Pres.—J. E. Kreps
Supt.—C. A. McDowell
M. M.—John J. Phillips
Chief Elec.—W. L. Wonder
Roll Designer—John James
EQUIPMENT—One 21-inch structural mill; one 10-inch semi-continuous merchant mill, concrete bar and fabricating department; one 8-inch guide mill

BRAEBURN ALLOY STEEL CORP., Braeburn, Pa.
Chairman, Pres. and Gen. Mgr.—T. H. McGraw, Jr.
First Vice Pres.—F. E. Pratt
Treas.—D. W. Yealy, at Blairsville, Pa.
Sec.—A. J. Barnett, at Latrobe, Pa.
Asst. Gen. Mgr.—Felix Kremp
Pur. Agt.—C. R. Cline
Works Mgr.—Norman I. Stotz
Supt. Rolling Mill—F. L. Chambordon
Supt. Elec. Steel—F. C. Ortmiller
Met.—John A. Nelson
Storekeeper—R. L. Chambordon
M. M.—W. W. McLure
EQUIPMENT—Two 6-ton electric furnaces; one 10-inch, 3-high 6-stand bar mill; one 14-inch, 3-high 5-stand bar mill; 6 steam forging hammers; heating and annealing furnaces, wire and cold drawn mills
PRODUCTS—High speed, carbon and alloy tool steels; cold drawn tool steel
Capacity—12,000 tons of cold melt electric furnace steel
Capital—$1,000,000
Railroad—Allegheny Div., Penna. R. R.

BRAMCOTE FDRY & MACHINE CO., Pottstown, Pa.
PRODUCTS—Steel castings

BRIGHTMAN BROS. CO., 773 Markison Ave., Station G, Box 63, Columbus, O.
Pres.—C. W. Brightman
Vice Pres.—H. M. Brightman
Treas.—G. F. Brightman
Asst. Treas.—Frank Lochnert
Sec.—Howard L. Brightman
Asst. to Sec.—T. L. Brightman
PRODUCTS—Hexagon bar nuts, shafting and shaft straightening machinery
Capital—$250,000; stock issued, $223,500
Railroads — Located on N. Y. C. Lines, Ohio Central Division, truck to all lines entering Columbus

BRIGHTON ELECTRIC STEEL CASTING CO., Beaver Falls, Pa.
Pres.—D. T. Sipe
Treas., Sec. and Pur. Agt.—W. F. Waxenfelter
Gen. Supt.—Fred Dewhurst
Storekeeper—Raymond Snyder
EQUIPMENT—Electric furnace and necessary appliances
PRODUCTS—Chrome nickel castings
Capacity—3 tons per day
Capital—$100,000; issued, $23,900
Railroads—Penn., P. & L. E., N. Y. Central Lines, Pgh., Harmony & Butler Street Ry.

BRODERICK & BASCOM ROPE CO., 801-809 No. First St., St. Louis, Mo. Plants: 4233 No. Union Blvd., St. Louis, Mo. and Seattle, Wash.
Chairman—Joseph D. Bascom
Pres.—John K. Broderick
Sec. and Treas.—Charles E. Bascom
Gen. Supt.—E. P. Frederick
Mgr. Tramway Dept.—F. W. Grice
PRODUCTS—Wire rope and aerial wire rope tramways

(At 8 So. Edmunds St., Seattle, Wash)
Mgr.—H. W. Wilker
Chief Elec.—A. B. Cratty
M. M.—Cliff Edwards
Foreman—H. A. Kamp
EQUIPMENT—Wire rope machinery
PRODUCTS—Wire rope

BROOKE IRON CO., E. & G., Birdsboro, Pa.
Pres.—Edward Brooke
Treas. and Gen. Mgr.—Robert E. Brooke
Sec.—George Brooke
Pur. Agt.—C. K. Manwiller
Supt. Blast Furnaces—F. Ward Coburn
Chief Engr.—Wilbur Hilton
Chemist—Werten Werner
EQUIPMENT—One blast furnace and iron ore mine equipment
PRODUCTS—Pig iron
Capital—$1,084,000
Capacity—110,000 tons annually

BRYDEN-NEVERSLIP CO., Hamilton St., New Brunswick, N. J. Plants, Catasauqua, Pa., and Montreal, Can.

Pres.—James W. Johnson
Sec. and Gen. Mgr.—Ross R. Harrison
Treas.—H. Morley Holton

(At Catasauqua, Pa., Plant, Front and Chapel Sts.)

Works Mgr.—H. M. Holton
Pur. Agt. and Storekeeper—Allan Campbell
Gen. Supt. and Chief Elec. Engr.—Christian Wilson
Asst. Gen. Supt. and Draftsman—Edward Payson
Foreman Machinist—John Kuhns
Roll Designer—Foster McAdams

EQUIPMENT—20-inch and 10-inch rolling mills; drop hammers; cold heading equipment; machine shop; heat treating
PRODUCTS—Horseshoes, calks, iron and steel bars, drop forgings
Capacity—12,000-15,000 tons
Capital — $2,000,000 preferred; 20,000 preferred; 36,000 common; no par common
Railroads—C. R. R. of N. J. and Lehigh & New England

BUCKEYE ROLLING MILL CO., 501 National Exchange Bank Bldg., Steubenville. Plant: Newark, O.
Pres.—Isaac M. Scott
Vice Pres. Sales and Opr., Treas. and G. M.—J. T. Sarratt
Sec.—C. H. Dossett
Capital—$500,000

(At Newark, O., Plant)

Supt. Roll Mill—Leo Hiler
Asst. Supt. R. M.—Fred Kirkpatrick
Mech. Engr.—Joseph Kaplan
EQUIPMENT—One 18-inch re-rolling mill complete
PRODUCTS—Light steel mine rails and accessories
Capacity—24,000 gross tons year
Railroads—Penna. and B. & O. Lines

BUCKEYE STEEL CASTINGS CO., THE., South Parsons Ave., Columbus, O.
Pres. and Gen. Mgr.—S. P. Bush
Vice Pres.—J. G. Deshler
Vice Pres.—J. C. Whitridge
Vice Pres.—A. H. Thomas
Treas. and Sec.—Arno Eberlein
Pur. Agt. and Asst. Supt.—T. V. Taylor
Supt. Fdry. and Fur. Dept.—F. H. Bonnett
Supt. Mech. and Elec. Depts.—G. S. Pierce
Supt. Fitting, Fin. and Pattern—W. C. Speck
Chief Engr.—G. T. Johnson
Asst. Chief Engr.—H. W. Stertzbach
Steam Engr.—F. Sutton
Chief Research Dept.—E. W. Campion
Storekeeper—C. R. Slyh
PRODUCTS—Steel castings for railway purposes
Capacity—100,000 tons annually
Capital—$1,000,000 preferred; $6,000,000 common

BUCYRUS COMPANY, South Milwaukee, Wis. Plants: South Milwaukee and Evansville, Ind.
Pres.—W. W. Coleman
Vice Pres.—E. K. Swigart
Vice Pres. and Treas.—D. P. Eells
Vice Pres. and Sec.—G. A. Morison
Vice Pres., Charge Engr.—W. Bager
Pur. Agt.—C. A. Kelly
Works Mgr.—W. M. Myers
Supt. Fdry.—N. R. Knox
Mech. Engr.—Werner Lehman
Elec. Engr.—P. S. Stevens
Met.—A. W. Lorenz

(At Decker Road, Evansville, Ind., Plant)

Supt.—C. E. Gage
Asst. Supt.—F. Springer
Asst. to Supt.—J. J. Ford
Supt. Steel Fdry.—N. R. Knox
Steam Engr.—A. S. Schverger
PRODUCTS—All sizes and types of shovels, dredges, dragline and tower excavators, trench machines, wrecking cranes, ballast plows, steel castings and forgings

BUFFALO BOLT COMPANY, P. O. Drawer 543, North Tonawanda, N. Y.
Pres.—Ralph Plumb
Asst. to Pres.—J. J. McLaughlin
Vice Pres.—G. A. Mitchell
Treas. and Sec.—R. K. Albright
Asst. to Sec.—S. C. Wead
Sales Mgr.—W. F. McKenzie
Asst. Sales Mgr.—A. M. Jones
Gen. Supt.—G. F. Blasier
Supt. Roll Mill—C. A. Schneider
Supt. Prod.—Joseph Pettapiece
Chief Engr., Elec. Engr. and Steam Engr.—L. T. Parrish
PRODUCTS—Bolts, nuts, screws and bar steel

BUFFALO STEEL CO., Tonawanda, N. Y.
Pres. Treas. and Pur. Agt.—Jacob G. Joseph
Vice Pres.—L. E. Block
Sec.—W. J. Kibler
EQUIPMENT—One 7-stand mill
PRODUCT—Rail steel bars
Capacity—40,000 to 50,000 tons annually

BUHL MALLEABLE CO., 3290 Wright St., Detroit, Mich.
Pres.—A. H. Buhl
Vice Pres.—L. D. Buhl
2nd Vice Pres. and G. M.—P. J. McManus
Treas. and Sec.—S. A. Commons
Pur. Agt.—James Wignall
Supt. O. H.—Wm. Smith
Supt. Elec.—Harry LaFevre
Chief Engr. and Steam—Wm. Race
EQUIPMENT—Three malleable, one open hearth furnaces
PRODUCTS—Commercial malleable castings; open hearth steel castings
Capacity—12,000 tons mallable iron, 3,000 tons open hearth
Capital—$690,000
Railroad—Detroit Mfgrs.

BURDEN IRON COMPANY, THE, Troy, N. Y.
Pres.—James A. Burden, New York
Asst. to Pres.—F. A. Weymouth
Vice Pres.—William Burden, New York
Treas.—Robert Forrest
Sec. and Asst. Treas.—Charles Downs
Asst. Sec.—Mrs. Grace W. Foster
Mgr.—Wm. E. Millhouse
Asst. Mgr.—Otis A. Van Denburgh, Jr.
Supt. Fin. Mills—William Lawrie
Supt. Puddling Dept.—Walter Bainbridge
Chief Elec. Engr.—Charles Wolfe
Mech. Engr.—William Downs
Steam Engr.—Andrew Kidd
Metallurgist and Chem.—Francis G. Lodge
Roll Designer—Ralph Hutchinson
Machine Shop Supt.—Irvin Millhouse
PRODUCTS—Horse and mule shoes, iron rivets, hollow drilled staybolts, merchant bar iron; brands, "Burden Best," "H. B. & S.," staybolt, engine bolt.
Railroad—N. Y. Central connection

BURNSIDE STEEL FOUNDRY CO., 1300 E. 92nd St., Chicago, Ill.
Pres.—H. F. Wardwell
Vice Pres. and Treas.—George L. Pollock
Sec.—W. A. Spuehler
Pur. Agt.—H. J. Finley
Gen. Mgr.—L. M. Bassini
M. M. and Safety—E. J. Ternay
EQUIPMENT — Multiple 3-ton electric melting furnace
PRODUCTS—Steel castings
Capacity—5,000 tons per year
Capital—$300,000

BYERS COMPANY, A. M., 235 Water St., Pittsburgh, Pa. Plants: South Side, Pittsburgh, Pa., and Girard, Ohio.
Chairman—E. M. Byers
Pres.—A. H. Beale
Assts. to Pres.—S. K. Hine and J. W. Merriman
Vice Pres.—J. F. Byers
Vice Pres.—L. M. Johnston
Vice Pres.—C. L. Ives
Treas. and Sec.—Frank G. Love
Asst. Treas.—H. H. Bryant
Pur. Agt.—J. E. Stauffer
Compt.—C. G. Jensen

(At South Side, Pittsburgh, Pa., Plant)
Gen. Supt.—Chas. E. Gross
Supt. Fin. Mills—Amos Kamerer
Asst. Chief Engr.—O. M. Tishlarich
Elec. Engr.—James Riles
Safety Engr.—S. Jakubowski
M. M.—Charles Muirhead
Met.—E. B. Story
Chemist—Fred Eckert
Draftsman—A. C. Wagner
PRODUCTS—Genuine wrought pipe

(At Girard, O., Plant)
Gen. Supt. W. F. Lane
Asst. Gen. Supt.—Thos. Pritchard
Supt. Roll. Mill—J. H. Deeley
Plant Engr.—W. T. Case
Chief Elec. Engr.—James Caputo
Safety Engr.—L. R. Mateer
M. M.—G. W. Schidel
Chief Chemist—L. V. Bagnall
Foreman Machinist—P. May
Storekeeper—H. P. Price
PRODUCTS—Pig iron, muck bar and skelp iron
Railroads—Erie, B. & O. and Penns. Lines

BY-PRODUCTS COKE CORP., 332 So. Michigan Ave., Chicago, Ill. Plant: 108th St. and Calumet River
Pres.—C. D. Caldwell
Asst. to Pres.—J. D. Forrest
Vice Pres. Sales—Seymour Wheeler
Vice Pres. and Gen. Mgr.—David L. Ward
Treas.—D. S. Boynton
Sec. and Asst. Treas.—C. P. Fitzgerald
Asst. Gen. Mgr.—F. B. Thacker
Asst. Sec.—C. L. Cleaver
Pur. Agt.—W. A. Boynton

(At 108th St. and Calumet River, Chicago, Ill.)
Gen. Supt.—W. C. McKee
Asst. Gen. Supt.—L. M. Hunt
Supt. Coke Plant—C. L. Waggoner
Asst. Supt. Coke Plant—F. A. Hagedorn
Supt. Labor—C. R. Calen
Chief and Power Plant Engr.—M. A. Tack
Steam Engr.—C. N. Arnold
Safety Engr.—D. V. Medalie
M. M.—Oscar Anderson

C

CALDWELL & SON CO., H. W., 1700 S. Western Ave., Chicago, Ill.
Chairman—Charles Piez
Pres.—Alfred Kauffmann
Vice Pres. Opr.—J. C. Nellegar
Treas. and Sec.—R. W. Yerkes
Pur. Agt.—W. T. Teuber
Mgr.—L. W. Shirley
Asst. Mgr.—E. H. Mathews
Gen. Supt. A. F. Moore
Chief Engr.—R. F. Bergman

CALUMET STEEL CO., 208 So. LaSalle St., Chicago, Ill. Plant: Chicago Heights, Ill.
Pres.—J. H. Porter
Vice Pres. Opr. and Sales—S. S. Porter
Vice Pres. and Treas.—J. P. Hook
Sec.—F. G. Carrel

(At Chicago Heights, Ill., Plant., 11th and Wentworth Ave.)
Gen. Supt.—L. H. Hook
Asst. Gen. Supt.—L. E. Yentzer
Supt. Mills—P. Evans
Mach. Shop Supt.—E. Peters
M. M.—C. S. Wallrab
Met.—Ivan Racheff
Roll Designer—H. C. Dischinger
Safety—W. T. Holmes
Storekeeper—Harry Lowe
EQUIPMENT—One 18-inch, one 14-inch mill, 7-stand; one 8-inch mill, 5 stands
PRODUCTS—Steel bars and shapes, structural steel tubing, steel fence posts
Capacity—75,000 tons annually

Capital—$400,000
Railroads—Four trunk lines, 1 belt line, 1 switching line, gasoline trucks

CANONSBURG STEEL & IRON WORKS, Canonsburg, Pa.
Pres.—E. W. Edwards
1st Vice Pres. and G. M.—J. M. Watson
2nd Vice Pres.—H. W. Edwards
Treas.—G. D. Myers
Sec.—O. S. Larkby
Asst. Treas. and Asst. Sec.—E. G. Haines
Pur. Agt.—J. R. Leonard
Gen. Supt.—M. P. Wilson
Chief Engr. and M. M.—A. J. Maskrey
Chief Elec. Engr.—E. J. Lewis
Foreman Machinist—Owen Adams
EQUIPMENT—Seven mills and 2 galvanizing pots
PRODUCTS—Black and galvanized sheets, roofing specialties
Capacity—40,000 gross tons
Capital—$240,000; issued, $210,000
Railroad—P., C., C. & St. L.

CANTON CULVERT & SILO CO., Canton, O.
Vice Pres., Treas., Sec. and G. M.—Perry Van Horne
PRODUCTS—"Acme" (nestable) and "Imperial" riveted corrugated Toncan metal culverts

CANTON STEEL FRDY. CO., 15th and Allen Sts., S. E., Canton, O.
Pres.—W. H. Morgan
Vice Pres. and Sec.—W. H. Ramsey
Treas.—T. D. Russell
Pur. Agt.—H. S. Roose
Gen. Sales Mgr.—A. F. Morris
Gen. Mgr.—W. W. Davidson
Asst. Gen. Mgr.—J. B. Allen

CARBON FURNACE CO., Parryville, Pa.
Chairman—M. S. Kemmerer
Vice Pres. Opr. and Sales and G. M.—James Dunane, Jr.
PRODUCTS—Pig iron
Capacity—40,000 tons annually
Capital $350,000
Railroads—C. R. R. of N. J.

CARBON STEEL CASTING CO., INC., Lancaster, Pa.
Pres.—Andrew J. Shenberger
Vice Pres.—George B. Geiser
Sec. and Treas.—Daniel Piersol
PRODUCT—Moulding and casting process

CARNEGIE STEEL CO., Carnegie Bldg., Pittsburgh, Pa. Plants: Bellaire, Mingo Junction, McDonald and Youngstown, O; Duquesne, Clairton, Farrell, New Castle, Pittock, Bessemer, McKees Rocks, Munhall and Pittsburgh, Pa.
Pres.—Wm. G. Clyde
Vice Pres.—L. H. Burnett
Asst. to Pres.—Thomas Woods
Asst. to Pres.—W. R. Balsinger
Vice Pres.—A. N. Diehl
Vice Pres.—I. L. Hughes
Vice Pres., Sec. and Auditor—J. J. Campbell
Treas.—W. C. McCausland
Asst. Treas.—H. E. Jeffries
Asst. Sec.—James W. Hamilton
Asst. Auditors—C. E. McKillips and Wm. Donald
Pur. Agt.—C. R. Miller, Jr.
Gen. Mgr. of Sales—Chas. L. Wood
Chief Mech. Engr.—Sidney Dillon
Met. Engr.—C. F. W. Rys
Chief Civil Engr.—E. C. Brown
Chief Elec. Engr.—Samuel S. Wales
Traffic Mgr.—L. C. Bihler
Ore Agent—McGilvray Shiras
Asst. Gen. Mgrs. Sales—W. P. Siebert, S. H. Hoover and John E. Woods
Gen. Mgr. Bar Mills—I. W. Jenks
Gen. Mgr. Research—J. S. Unger
Chief Bureau Instruction—J. M. Camp
Credit Mgr.—L. F. Payne
Gen. Agt.—J. P. Kessler, Jr.
Special Agts.—B. H. Taylor and W. E. Donaldson
Chief Surgeon—Dr. Wm. O'Neil Sherman

(At Pittsburgh, Pa., City Blast Furnaces)
Gen. Supt.—L. E. Riddle
Chief Engr.—Bruce Walter
Asst. Engr.—Charles T. Siebert
Chief Chemist—William Bett
Power Engr.—E. A. Graham

(Isabella Furnaces, Etna, Pa.)
Supt.—Wm. Stewart
Asst. Supt.—T. G. Ayres
M. M.—Alfred Giles
Chief Clerk—L. P. Campbell

(Lucy Furnaces, 51st St., Pgh., Pa.)
Gen. Supt.—L. E. Riddle
Supt. B. F.—R. C. Taylor
Asst. Supt. B. F.—Harry M. Stewart

(At New Castle, Pa., Furnace and Rolling Mill)
Gen. Supt.—R. J. Tully
Asst. Gen. Supt.—John C. Taggart
Supt. B. F.—George R. Brown
Asst. Supt. B. F.—A. L. Moore
Supt. Converter—C. H. Hilborn
Supt. Roll Mill—A. L. Hillborn
Chief Engr.—J. C. Allen
Asst. Chief Engr.—W. H. Williams
Chief Elec. Engr.—R. B. Davenport
Asst. Elec. Engr.—R. H. Thompson
M. M.—E. J. Blanning
Chief Chemist—J. K. Heess
Safety Insp.—J. C. Miller
Storekeeper—W. C. Justice

(Farrell, Pa., Steel Works and Furnaces)
Gen. Supt.—A. L. Cromlish
Asst. Gen. Supt.—H. L. Bindle
Supt. B. F.—H. E. Becht
Supt. O. H. Dept.—N. S Powell
Supt Coke Oven Dept.—E. A. Hilborn
Asst. Supt. C. O. Dept.—W. Woodman
Chief Engr.—R. Schneider
Steam Engr.—Henry Jaxthimer
Charge Elec. Dept.—L. R. Rankin
Asst. Engr.—Fritz Merk
M. M.—L. L. Newton
Chief Insp.—B. H. Pease

Buyer—C. W. Cunningham
Safety and Welfare—J. V. Rigby
Foreman Mach. Shop—Henry John
Chemist—C. N. Norris

(At Carrie Furnaces)

Supt.—J. E. Lose
Asst. Supt.—W. S. Unger
M. M.—John Mitchell
Supt. Elec. Dept.—John R. Barefoot
Steam Engr.—C. D. McGuire
Chemist—Carl Ruhe

(At South Duquesne, Pa., Furnaces and Steel Works)

Gen. Supt.—S. G. Worton
Asst. Gen. Supt.—D. C. Burroughs
Supt. O. H.—R. B. Bostwick
Asst. Supt. O. H.—J. Howard Knapp
Supt. Nos. 1, 2, 3 and 4 Bar Mills—Walter C. Jones
Supt. Nos. 5, 6 and 7 Merchant Mills—W. W. Hill
Asst. Supt. Nos. 5, 6 and 7 Mills—Geo. L. Gallitin
Supt. Bloom Mill—Robert H. Shick
Supt. Boiler Shop—F. McWilliams
Supt. Roll Shop—W. F. Lewis
Supt. Transportation—J. A. Hughes
Chief Mech. Engr.—Thomas P. Davies
Asst. Chief Mech Engr.—W. C. Stevenson
Chief Elec.—Alden C. Cummins
Experimental and Fuel Engr.—T. J. McLoughlin
Asst. Elec. Eng.—A. R. Leavitt
M. M.—George J. Bryen
Safety Engr.—P. G. Fenton
Chief Chemist—W. D. Brown
Chief Insp.—J. M. Lenhart
Foreman O. H. No. 1—M. Schoor
Foreman O. H. No. 2—Fred Haberman
Chief Clerk—F. D. Martin

(At Clairton, Pa., Steel Works and Furnaces)

Gen. Supt.—Henry J. Davis
Asst. Gen. Supt.—F. F. Marquard
Supt. Rolling Mills—I. J. Simmons
B. F. Supt.—H. F. Shilling
Supt. 14 and 18-in. Mills—Geo. E. Shawl
Supt. 21 and 22-in. Mills—E. E. Espenshade
M.M.—Henry Bier
Chief M. E.—C. A. Baumann
Supt. O. H. Dept.—R. N. Weibel
Chemist—H. E. Campbell
Roll Designer—James A. Ormond
Chief Elec.—C. E. Miller
Steam Engr.—J. W. Shannon
Supt. Transportation and Labor—J. W. Crisfield
Chief Clerk—W. B. Farnsworth
Chief Insp.—Joseph C. Hill

(Neville Island P. O., Pittock, Pa.)

Supt.—R. C. Taylor
M. M.—Chester Gibson
Chief Clerk—Harry McAlpine
Foreman Elec.—Albert Schott
Foreman Masonry—James J. Sullivan
Foreman Labor—John O'Connell

(At Bessemer, Pa., Edgar Thomson Mills)

Gen. Supt.—O. J. H. Hartsuff
Asst. Gen. Supt.—F. F. Slick
Supt. B. F.—Andrew E. Maccoun
Asst Supt B. F.—Frederick H. N. Gerwig
Supt. O. H.—David S. Hays
Asst. Supt. O. H.—Peter T. Quinn
Supt. Bess. Dept.—H. I. Hunter
Supt. Roll Mills—John Lloyd
Asst. Supt. Roll Mills—Henry A. Shepherd
Supt. Splice Bar and Fin. Mills—E. S. Wright
Chief Engr.—L. C. Edgar
Asst. Chief Engr.—J. W. Forsythe
Special Engr.—Howard Dawson
Civil Engr.—T. F. Graham
Safety Engr.—Edwin C. Ramage
Chief Elec. Eng.—James A. Morgan
Asst. Elec. Eng.—James L. Kennedy
Steam Eng.—Fred N. Hays
M. M. B. F.—George W. Campbell
Met.—J. D. Lewis
Chief Chemist—Charles E Nesbit
Asst Chief Chemist—John S Richards
Supt. Fdry.—S. B. Cuthbert
Asst. Supt. Fdry.—David Scott
Roll Designer—I. W. Keener
Foreman Machinist—W. B. Decker
Supt. Water and Steam Depts.—W. A. Drylie
Storekeeper—J. B. Johnston
Supt. Labor and Transp.—Joseph A. Lawler
Asst. Supt. Labor and Transp.—R. Q. Berlin
Chief Insp.—J. K. Boyd
Gen. Foreman Boilers—George S. Kramer

(At Schoen Steel Wheel Plant, McKees Rocks, Pa.)

Gen. Supt. F. J. Black
Asst. Gen. Supt.—A. B. Steigerwalt
Chief Elec.—W. W. Barefoot
M. M.—P. T. Black
Chief Draftsman—W. K. Carnes
Gen. Foreman—F. P. Henry
Chief Insp.—O. D. Gillette

(At Mingo Junction, O., Works)

Gen. Supt.—M. F. McConnell
Asst. Gen. Supt.—G. W. Vreeland
Supt. B. F.—C. R. Clingerman
Asst Supt. B. F.—H. L. Quinn
Supt Bessemer—R C. Thompson
Supt. Blooming Mills—M. B. Hyde
Asst. Supt. Blooming Mills—C. E. Culp
Supt. Bar and Skelp Mill—H. O. Thompson
Asst. Supt. Bar and Skelp Mill—R. C. Elliott
Chief Civil Engr.—E. Bond
Elec. Engr.—H. B. Connover
Asst. Chief Elec.—F. P. May
Mech. Engr.—F. R. McGee
Asst. Mech. Engr.—A. R. Schulze
Special Engr—W. H. Tipton
M. M.—R. S. Quinn
Asst. M. M.—Arlington Tarbert
Chief Chemist—C. D. Wright
Supt. Transp. and Labor—D. G. Maxwell
Asst. Supt. Transp. and Labor—W. S. Carson

Chief Clerk—D. F. Melville
Physical Insp.—J. W. Stubbs

(At Bellaire, Ohio Steel Works and Furnaces)

Supt.—W. C. Carnahan
Supt. B. F.—L. C. Furst
Supt. Bessemer—W. G. Banner
Supt. Finishing Mill—A. N. Powell
M. M.—William Siddall
Chief Elec.—John E. Cooper
Asst. Elec. Eng.—Wm Applegate
Chief Chemist—H. C. Wagner
Gen. Foreman B. F.—Grant Baird
Foreman Bessemer Dept.—Geo. S. Simmons, Howard McClain and F. E. Morrill
Storekeeper—Clarence Biehl

(At Munhall, Pa., Homestead Steel Wks. Carrie Furnaces and Howard Axle Wks.)

Gen. Supt.—John S. Oursler
Asst. Gen. Supt.—Ralph H. Watson
Mgr. Production—John W. McGrady
Supt. Roll Shop—W. C. Oberg
Supt. Transp. and Labor—Kenneth Lean
Asst. Supt. Transp. and Labor—Frank W. Boyle
Supt. Steam Dept.—Louis J. Hollman
Supt. Plate Mills—William H. Packer
Asst. Supt. Plate Dept.—Wm. E. Crouch
Supt. Howard Axle Wks.—S. C. Wood
Supt. Structural Mills—Edw. G. Crozier
Asst. Supt. Structural Mills—John R. Post and Wm. Menk
Supt. 32, 72, 84 and 140-inch Plate Mills—Clyde Flohr
Supt. 30, 42 and 128-inch Plate Mills—W. D. Hacker
Supt. 48-inch Plate Mill—J. L. King
Supt. 110-inch Plate Mill—John Dittman
Supt. Construction—C. S. Frye
Supt. O. H.—Frank Toy
Supt. O. H. Nos. 1 and 2—J. T. McLeod
Supt. O. H. No. 3—Thomas J. Jamison
Supt. O. H. No. 4—Howard Corey
Supt. Elec. Dept.—Charles A. Menk
Asst. Supt. Elec Dept.—Wm. Jackson
Met.—G. A. Hopkins
Asst. Met.—Ralph H. Mills
Supt. Mech. Dept—Wm. Finlayson
Asst. Supt. Mech. Dept.—John Taggart
Asst. Supt. Mech. Dept.—C. M. Guy
Chief Engr.—F. B. Sheaffer
Asst. Chief Engr.—George Hand
Chief Insp.—J. A. Henry
Asst. Chief Insp.—L. C. Martin
Chief Mech. Engr.—A. W. Soderberg
Asst. Chief Mech. Engr.—G. M. Meigs
Asst. Chief Mech. Engr.—E. A. Brown
Chief Clerk, Homestead Steel Works—I. L. Irwin
Asst. Chief Clerk, Homestead Steel Works—Edward S. Jamison
Chief Chemist—John L. Harvey
Supt. Employment and Welfare—J. W. Benner

(At Youngstown, O., Steel Works and Furnaces)

Gen. Supt.—L. N. McDonald
Asst. Gen. Supt.—F. B. Quigley
Supt. B. F. Dept.—J. C. Barrett
Asst. Supt. B. F. Dept.—C. H. Glaser
Supt. Slag Dept.—E. L. Flad
Supt. Bess. Dept.—J. A. Reisinger
Supt. O. H. Dept.—Ed. Fitzgerald
Supt. Roll Mill Dept.—H. T. Newman
Asst. Supt. Roll Mill Dept.—F. B. Loveland
Supt. Finish. Dept.—W. R. Collins
Asst. Supt. Finish. Dept.—Edw. Haeffner
Chief Engr.—F. E. Kling
Asst. Chief Engr.—B. R. Hendrickson
Supt. Elec. Light and Power—B. W. Gilson
Asst. Supt. Light and Power—Thomas B. McElray
M. M.—H. D. Thompson
Asst. M. M.—Robert Backus
Supt. Safety Welfare and Claims—A. C. Cook
Supt. Transp. and Labor—W. J. Jones
Chief Chemist—T. S. Woodward
Chief Insp.—J. J. Davis
Master Carpenter—R. D. Campbell
Master Mason—James Cooper
Chief Clerk—T. A. Crum
Chief Order Clerk—J. L. Findlan
Chief Police Dept.—G. D. Davis
Supt. Employment Bureau—David Kline

(At Youngstown, O., Upper Union Mills)

Supt.—Powers Wick
Asst. Supt.—H. C. Berlin

(At Youngstown, O., Lower Union Mills)

Supt.—Wm. V. Williams
Asst. Supt.—J. M. Powers

(At Youngstown, O., Bar Mill Dept.)

Supt.—H. J. Baugh
Asst. Supt.—H. G. R. Bennett
Asst. Order Clerk—J. L. Findlan
Shipper—Wm. H. Bass

(At McDonald, O., Mills)

Supt.—Carl W. Meyers
Asst. Supt.—Walter D. Griffith
Roll Designer—Harry R. Mercer
M. M.—Wm. Rosevear
Asst. Chief Elec.—Ed Lauser
Asst. Chief Clerk—W. H. B. Pennell
Shipper—A. D. Williams

CARPENTER STEEL CO., THE, 101 West Bern St., Reading, Pa.
Chairman—W. B. Kunhardt
Pres.—F. A. Bigelow
Asst. to Pres.—R. V. Mann
Vice Pres.—J. H. Parker
Vice Pres. Opr.—E. J. Poole
Vice Pres. Sales—W. S. Jones
Treas. and Sec.—J. S. Pendleton
Asst. to Treas.—J. W. Sterner
Fur. Agt.—C. W. Gaul
Asst. Gen. Supt.—A. H. Chambers and C. L. Ruth
Supt. Elec. Melting—C. C. Wilson
Supt. Rolling Mills—E. J. Lieb
Mech. Engr.—C. F. Weaver
M. M.—F. H. Phillips
Met.—B. H. DeLong
Chemist—E. A. Loos

Safety Engr.—C. T. Miley
Roll Designer—Charles Burns
Storekeeper—M. A. Unger
PRODUCTS—High grade steel and wire specialties
Capital—$6,000,000
Railroads—Penna., Reading

CARROLL FOUNDRY CO., Houghton, Mich.
PRODUCTS—Iron, steel, brass and aluminum castings

CENTRAL ALLOY STEEL CORP., Oberlin Road, Massillon, O. Plants at Massillon and Canton
Chairman—F. J. Griffith
Pres. and Treas.—C. E. Stuart
Vice Pres. Opr. and G. M.—B. F. Fairless
Vice Pres. Sales—J. M. Schlendorf
Asst. to Vice Pres.—C. E. Roberts
Asst. Treas.—G. H. Freeborn
Sec.—J. P. Moseley
Pur. Agt.—C. A. Ilgenfritz
Asst. to Gen. Mgr.—D. E. Jenkins
Gen. Supt.—E. A. Portz
Asst. Gen. Supt.—E. C. Smith
Supt. B. F.—J. H. Slater
Asst. Supt. B. F.—Geo. Swan and R. P. Ligget
Supt. O. H.—T. McNally
Supt. Blooming Mills and Finishing Mills—D. L. Immel
Chief Engr.—W. S. Orr
Asst. Chief Engr.—L. Larson
Elec. and Mech. Engr.—J. D. Donovan
Master Mechanic—D. B. Gallagher and B. F. Houghton
Metl.—M. J. R. Morris and M. A. Grossman
Chemist—E. F. Camp, Geo. Kane and F. M. Portz
Brick Supt.—John Walsh
Chief Draftsman—H. Eschliman
Roll Designer—W. R. Stutz
Safety—J. A. Voss
Storekeeper—W. C. Jewell
EQUIPMENT—96 coke ovens, 2 blast furnaces, 55 sheet mills, 23 open hearths, merchant mills, 1 strip mill
PRODUCTS—High quality steels, sheets and strips, stainless bar sheets and strips
Capacity—1,000,000 tons annually
Capital stock—100,000 shares preferred par, $100; 1,320,625 shares no par common
Railroads—Penna.; B. & O.; W. & L. E.

CENTRAL IRON & COAL CO., 12th Floor, Graybar Bldg., New York, N. Y. Plant: Holt, Ala.
Chairman—Geo. A. Harder
Pres.—Louis B. Ladow
Treas.—E. McElhaney
Asst. Treas.—M. R. Rives

(At Holt, Ala., Furnace)

Gen. Mgr.—M. J. Moloney
Pur. Agt.—W. M. Joyner
B. F. Supt.—F. B. McKenzie
Chief Engr.—R. C. Smith
B. F. M. M.—J. L. Oldham
E. E.—Tom Burgess
Supt. Labor—W. L. Standifer
Chemist—J. S. Landers
EQUIPMENT—Blast furnace, four stoves, 1 stack
Power Plant—Twelve vertical, one horizontal boilers; total horsepower 4,000
PRODUCTS—Pig iron, coal and coke
Capacity—110,000 tons pig iron, 200,000 tons coke, 300,000 tons coal, including coal coked
Railroads—Mobile & Ohio; Alabama Great Southern; Louisville & Nashville

CENTRAL IRON & STEEL CO., Harrisburg, Pa.
Chairman—Vance C. McCormick
Pres.—Robert H. Irons
Treas. and Sec.—Donald McCormick
Pur. Agt.—Wm. H. Drinkwater
Comptroller—Basil M. Graham
Gen. Sales Mgr.—L. F. Nagle
Gen. Supt.—Henry S. Evans
Asst. Gen. Supt.—Warren Elsey, Jr.
Supt. O. H.—Wm. R. Faithful
Asst. Supt. O. H.—Ralph Essig
Supt. Plate Mills—H. M. Jones
Brick Supt.—Wm. G. Hepler
Chief Engr.—A. E. Eck
Elec. Engr.—H. S. Gland
Asst. Elec. Engr.—Thos. Shilby
Met.—A. D. Peace
Chemist—Wm. Zerbe
Safety Engr.—Clyde McCauley
Supt. No. 2 Mill—Wm. F. Welsh
Supt. Stamp and Flange Dpts.—Ralph R. Thompson
Asst. to Supt. Production—Geo. A. Snyder
Chief Draftsman—Robert B. Thompson
Foreman Mach. Shop—Wm. A. Phillips
Foreman Steam Dept.—Geo. J. Snyder
Foreman O. H. Pit—Charles H. Acri
Melter Foreman O. H.—Lawrence Conjar
Melter Foreman O. H.—Joseph Curley
Yard Supt.—Howard J. Mumma
PRODUCTS—Steel plates, sheared and Universal Red Tank, blue annealed sheets, floor plates and stampings
Capital—$2,245,400
Railroads—Penn. & Reading

CENTRAL TUBE CO., First Nat. Bank Bldg., Pittsburgh, Pa. Plant: Ambridge, Pa.
Chairman—Alex. Laughlin
Pres.—Walter F. Ingalls
Treas. and Sec.—G. M. Wilson
Asst. Treas.—George Sargent
Pur. Agt.—George H. Watson
Gen. Mgr.—L. L. Beall

(At Ambridge, Pa., Plant)

Gen. Supt.—Geo. L. Hise
Asst. Gen. Supt.—J. Ward Edmonds
Asst. Gen. Supt.—S. C. Mitchell
Supt. Welding—A. J. Wagner
Supt. Galvanizing—A. A. Peters
Supt. Conduit Dept.—C. W. Richards
Supt. Threading—Edw. Hambleton
Supt. Coupling Dept.—Jas. Gardner

Elec. Engr.—J. A. Reininger
Steam Engr.—Thomas Thiret
Personal Director—R. A. Beyer
M. M.—W. H. Wisk
Asst. M. M.—H. A. Kroll
Foreman Machine Shop—Warren Bachtel
Night Supt.—Herbert Bowman
Storekeeper—F. J. Shoup
Chief Shipper—W. G. Carder
Chief Clerk—J. H. Miller
EQUIPMENT—Four butt weld furnaces, one lap weld furnace, rigid conduit plant
PRODUCTS—Standard pipe, oil country tubular goods, wrought conduit pipe.
Capacity—250,000 tons annually

CHAIN BELT CO., 736 Park St., Milwaukee, Wis. Plant No. 1, 736 Park St.; Plants 2, 3 and 4, 39th St. and Orchard Sts., Milwaukee, Wis.
Pres.—C. R. Messinger
First Vice Pres.—C. F. Messinger
Second Vice Pres.—J. C. Merwin
Treas.—C. L. Pfeiffer
Asst. Treas.—F. L. Lowum
Sec.—Brinton Welser
Pur. Agt.—J. G. Syburg
Asst. Sec.—W. H. Brandt
Works Mgr.—J. W. Millspaugh
Supt. Fdry. and Met.—E. M. Handley
Chief Engr.—G. A. Roddy
Asst. Chief Engr.—L. G. Bleyer
Chief Draftsman—A. A. Wagner
PRODUCTS—Rex chains for elevating, conveying and driving purposes; Rex elevating and conveying machinery; Rex transmission machinery, water screens and concrete mixers
Incorporated 1891

CHAMP SPRING CO., 2107 Chouteau Ave., St. Louis, Mo.
Pres. and Treas.—C. E. M. Champ
Vice Pres.—N. B. Champ
Sec.—L. M. Champ
Pur. Agt., G. M. and Asst. Treas.—John W. Coleman
Gen. Supt.—Elmer Taylor
Asst. Gen. Supt.—John Ott
Asst. Supt.—Harry Sansenny
PRODUCTS—Leaf springs for vehicles
Capacity—5,000 tons annually
Capital—$205,000
Railroads—Mo. Pacific

CHAMPION SPARK PLUG CO., Toledo, O.
PRODUCTS—Cold drawn steel
Capacity—60 tons per day

CHAPMAN PRICE STEEL CO., Indianapolis, Ind.
Pres.—Nils Chapman
Treas. and Sec.—B. B. McCandless
Gen. Supt.—Fred T. Lawrence
EQUIPMENT—Six sheet mills and four galvanizing pots
PRODUCTS—Black and galvanized sheets and formed products
Capacity—40,000 tons annually
Capital—Common outsanding, $531,000 preferred outstanding, $401,000
Railroads—Penna.

CHAPMAN VALVE MFG. CO., Indian Orchard, Mass.
PRODUCT—Steel castings for valves and steam specialties

CHARCOAL IRON CO. OF AMERICA, Newberry, Mich. Furnaces: Ashland, Wis.; Boyne City, Manistique and Newberry, Mich.
Receivers—Andrew H. Green, Jr., and Ed. P. Smith

CHASE COMPANIES, INC., Chase Metal Works Division, Waterbury, Conn.
Gen. Mgr.—R. D. Ely
Pur. Agt.—Arthur E. Evans
Gen. Supt.—F. A. Jackie
Chief Engr.—C. B. Slater
Elec. Engr.—Frank Clearwater
Met.—D. K. Crampton
Foreman Machinist—R. C. Blakeslee
PRODUCTS—Brass and copper rods, wire, sheets, tubes, also bronze

CHATEAUGUY ORE & IRON CO., Standish, N. Y.
Vice Pres.—J. R. Linney, Lyon Mountain, N. Y.
Pur. Agt.—C. W. Carpenter, Scranton, Pa.
Supt. B. F.—Marshall Prosser
Asst. Supt. B. F.—Frank Durnin
M. M.—F. S. Bothwell
Power Plant Engr.—Frank Davies
Elec. Engr.—Jerry Jette
Chemist—Clayton Keysor
Foreman Machinist—Wm. H. Smith
Foreman Labor—C. S. Sullivan

CHESTER STEEL CASTINGS CO., 407 Sansom St., Philadelphia, Pa. Plant: 7th and Broomall Sts., Chester, Pa.
Pres. and Treas.—E. W. Dwight
Sec. and Pur. Agt.—J. D. Wetzler
Asst. Sec.—H. M. Bonawitz
(Plant at Chester, Pa., has not been operated since Jan., 1921)

CHICAGO MALLEABLE CASTINGS CO., 1200 S. Racine Ave., Chicago, Ill.
Pres.—John T. Llewellyn
Vice Pres. and Sec.—James S. Llewellyn
Treas. and Mgr.—Wm. L. Beaudway
Asst. Sec.—W. F. Hoffman
Pur. Agt.—Henry D. Menke
Supt.—E. M. Richardson
Chief Engr.—A. R. Anderson
Met.—F. A. Kavanaugh
PRODUCTS—Malleable iron castings
Capacity—1500 tons per month
Capital—$2,000,000
Railroads—C. W. P. & S., Ill. Central, Penna.

CHICAGO STEEL FOUNDRY CO., 3720 South Kedzie Ave., Chicago, Ill.
Pres., Treas.—David Evans
Vice Pres.—C. M. Lauritzen

Sec. and Pur. Agt.—A. I. Gilbert
Gen. Mgr.—Alexander Blackwood
Met.—J. Frank
Gen. Supt.—Louie Pawelk
Elec. Engr. and M. M.—Wm. Walters
Asst. Elec. Engr.—John Calder
Chemist—Frank Schaub
EQUIPMENT—One 3-ton electric furnace
PRODUCTS—Steel castings, Evansteel, Pyrasteel, Bloxham
Capacity—500 tons per month
Capital—$1,000,000
Railroads—Private switch on Chicago & Alton; trucks

CHICAGO STEEL & WIRE CO., 103rd St. and Torrence Ave., Chicago, Ill.
Pres. and Gen. Mgr.—J. B. Green
Vice Pres.—A. T. Carton
Treas. and Sec.—F. B. Toombs
Asst. Treas. and Gen. Supt.—A. L. Hammond
Pur. Agt.—Crandall Allanson
Asst. Gen. Supt.—G. Johnson
Mech. Engr.—Burton Finne
Chief Elec. Engr.—K. L. Hansen
M. M.—J. J. Sacks
Met.—R. W. Holt
Machine Shop Supt.—Walter Wildemeyer
EQUIPMENT—Wire drawing blocks, pickle house, bakers, annealers
PRODUCT—Technical wire
Capacity—6,000 tons
Capital—$300,000
Railroads—C. R. I. & P.; C. W. P. & S.

CHROME STEEL WORKS, Carteret, N. J.
Pres. and G. M.—Abeel Canda
Vice Pres. and Treas.—H. Clifford Gayley
Asst. Treas. and Pur. Agt.—Casper J. Herbert
PRODUCTS—"Adamantine" steel rolled bars and plates of every description for wearing parts for grinding mills in the metal, mining and cement industries; also liners for ball, rod and tube mill; cams, tappets and bossheads for stamping mills, shoes and dies for stamp mills, steel forged and rolled roll shells and roller mill tires, ring dies and bull rings; alloy steel plates and castings, five-ply plates, angles and bars for safes and vaults

CINCINNATI STEEL CASTINGS CO., THE, 1220 Queen City Ave., Cincinnati, O.
Pres.—William Gilbert, Sr.
Vice Pres.—J. D. Leary
Sec., Treas. and G. M.—E. A. Leary
Pur. Agt.—H. C. Cross
Gen. Supt.—Leonard Geiser
Supt. Elec. Steel—H. C. Cross
Gen. M. M.—O. R. Yeazell
Met. and Chemist—H. C. Cross
Chief Engr.—O. R. Yeazell
Safety—Dr. Oscar Stark
EQUIPMENT—Two-ton electric furnace
PRODUCTS—General Jobbing and alloy steels
Capacity—250 tons
Capital—$200,000
Railroads—All Cincinnati railroads, Ohio river and Ohio Traction

CLARK EQUIPMENT CO., Buchanan, Mich.
Pres.—Eugene B. Clark
Vice Pres. and Pur. Agt.—Frank Habicht
Vice Pres and Chief Engr.—E. C. Mogford
Vice Pres. Sales—E. B. Ross
Vice Pres.—M. L. Hanlin
Sec. and Treas.—A. S. Bonner
Gen. Supt.—Glen W. Merrefield
Asst. Chief Engr.—Charles Boone
Chem. and Met.—J. A. White
PRODUCTS—Electric steel castings, steel wheels for automobile trucks, auto truck axles
Railroad—M. C. R. R. Main line

CLARK TRUCK & TRACTOR CO., Battle Creek, Mich.
Pres.—R. J. Burrows
Vice Pres.—Ezra W. Clark
Treas. and Sec.—A. S. Bonner
Service Mgr.—H. B. Madison
Pur. Agt.—F. Habicht
Gen. Mgr.—H. D. Burnside
Chief Engr.—A. O. Williams
Gen. Supt.—F. J. Contois
PRODUCTS — Industrial tractors and trucks
Capital—$300,000
Railroads—Mich. Central

CLEVELAND-CLIFFS IRON CO., THE, 1460 Union Trust Bldg., Cleveland, O.
Furnace: Marquette, Mich.
Pres.—Wm. G. Mather
Vice Pres.—M. M. Duncan
Treas.—C. G. Heer
Sec.—C. D. Mason
Vice Pres.—S. L. Mather
Pur. Agt.—A. J. Yungbluth
Auditor—V. P. Geffine

(At Marquette, Mich., Furnace)
Mgr.—F. J. Hudson
Chief Engr.—E. S. Bonnell
Elec. Engr.—H. W. Nebel
Founder—Wm. Fountain
M. M.—Julius Olsen
Chemist—Earl Richardson
EQUIPMENT—One blast furnace
PRODUCT—Charcoal pig iron
Capacity—20,000 tons annually and wood chemicals

CLEVELAND HARDWARE CO., 4518 Lakeside Ave., Cleveland, O.
Pres. and Gen. Mgr.—Charles E. Adams
Vice Pres.—Thomas P. Robbins
Treas.—Thomas P. Robbins
Asst. Treas.—Manley H. Chase
Sec. and Sales Mgr.—A. A. Gay
Asst. Gen. Sales Mgr.—A. O. S. Allan
Pur. Agt.—Wm. D. Lewis
Gen. Mgr.—Edgar E. Adams
Supt. No. 2 Plant—N. F. Kennedy
Supt. No. 1 Plant—H. C. Kennedy
Chief Elec. Engr.—Charles Kleinhanz
M. M.—D. Alston

PRODUCTS—Rolled steel and drop forged vehicle and specialty hardware
Capital—$5,000,000; issued, $2,834,000
Railroads—Penna. and N. Y. C. Switches all other lines

CLEVELAND STEEL CASTINGS CO., Hubbard Ave. and 69th St., Cleveland. O.
Prop. and Mgr.—George W. Balkwill
EQUIPMENT—Two 2-ton acid open hearth furnaces

COHOES ROLLING MILL CO., 2 Canvass St., Cohoes, N. Y. Plant: Courtlandt St., Cohoes, N. Y.
Pres.—W. W. Near
Vice Pres.—H. C. Schofield
Vice Pres.—D. H. Friedman
Treas.—H. Rooke
Sec. and Gen. Mgr.—A. MacFayden
Asst. Sec.—W. S. Crawford
Pur. Agt.—C. R. Lee

(At Rolling Mill, Courtlandt St., Cohoes, N. Y.)
Supt. Pipe Mill—J. F. Ackenbrack
Supt. Roll Mill—H. L. Nelson
Asst. Supt. Roll Mill—N. B. Bennett
Chief Engr.—G. M. Crump
Form. Mach.—Ole Heggens
Roll Designer—V. Williams
Storekeeper—S. S. Eighmey
EQUIPMENT—14 double puddling furnaces, 2 busheling furnaces, one squeezer, three 4-d gas heating furnaces, 22-inch 3-high std. merchant mill, 10-inch and 16-inch grooved skelp mills, butt-weld furnace, 2 galvanizing pots
PRODUCTS—Genuine wrought iron pipe and couplings, black and galvanized
Capacity—30,000 tons
Capital—$850,000
Railroads—D. & H., N. Y. C.

COLONIAL IRON CO., 285 Madison Ave., New York, N. Y. Furnace: Riddlesburg, Pa.
Pres.—Henry H. Adams
Treas.—John L. Roberts
Sec.—F. G. Gottsch
Asst. Treas and Pur. Agt.—Wm. D. Norman

(At Riddlesburg, Pa., Plant)
Vice Pres.—Hon. John M. Reynolds
Gen. Supt.—E. P. Ross
Asst. Gen. Supt.—H. D. Keefer
Gen. M. M.—S. B. Wills
Chem. and Safety Insp.—John T. Ross
EQUIPMENT—Blast furnace, machine shop, coke ovens and coal mines
PRODUCTS—Pig iron, coke and coal
Power Plant—Seven boilers, 2,250 hp.
Capacity—175,000 tons
Capital—$1,000,000
Railroad—H. & B., T. R. R.

COLONIAL STEEL CO., 324 Fourth Ave., Pittsburgh, Pa. Plant: Monaca, Pa.
Pres.—Geo. P. Rhodes
Vice Pres.—W. H. Nimick
Treas.—T. H. Childs
Sec.—Horace Sisler
Pur. Agt.—G. M. Trautman
Gen. Sales Mgr.—Lawrence Wood
Asst. Sales Mgr.—T. H. Nimick

(At Plant, Colona, P. O., Monaca, Pa.)
Gen. Works Mgr.—H. C. Poole
Met.—N. B. Hoffmann
PRODUCTS—Tool steel bars and sheets, hollow and solid mining drill steel, agricultural implement steels, die blocks
Railroad—P. & L. E.

COLORADO FUEL & IRON CO., THE, Boston Bldg., Denver, Colo. Steel Plant: Pueblo, Colo.
Pres.—J. F. Welborn
Vice Pres. Sales, Pur. and Traffic—J. B. Marks
Vice. Pres.—E. H. Weitzel
Vice Pres. and Treas.—S. G. Pierson
Asst. to Vice Pres.—C. H. Murphy
Asst. Treas.—P. A. Wieting
Sec.—Wendell Stephens
Asst. Sec.—L. B. Rogers
Pur. Agt.—Gerald Alley
Production Mgr.—W. A. Maxwell, Jr.
Capital—$46,200,000; issued: $34,235,000 common; $2,000,000 pref.; bonds issued, $5,319,000 C. F. & I. Co. mortgage. Colo. Ind. Co. 1st mortgage, $31,430,000; $31,580,000 Industrial Mortgage bonds

(At Pueblo, Colo., Minnequa Works)
Gen. Supt.—H. B. Carpenter
Supt. B. F.—W. S. Hutton
Asst. Supt. B. F.—J. W. Acuff
Supt. O. H.—J. R. Stuart
Asst. Supt. O. H.—Jay J. Martin
Supt. Coke Ovens and By-Product Coke Ovens—J. D. Price
Supt. 14-inch Mill—Walter Rich
Supt. Wire Mill—J. P. Delihanty
Supt. Rail Mill—O. B. Wolff
Supt. 40-inch Rod Mills—V. W. Johnson
Supt. Bloom. and Fin. Mills—Geo. Ofdenkamp
Supt. Bolt and Spike Mills—J. C. Crowder
Supt. Old Mer. Mills—J. E. Pugh
Supt. Pipe Fdry.—A. W. Zullinger
Supt. Shipping—S. M. Potter
Gen. Supt. C. & W. Ry.—Geo. Van Brimer
Supt. C. & W. Ry. Co.—W. D. Bunker
Gen. Supt. Fuel Dept.—R. L. Hair
Gen. Supt. Mines and Quarries—L. B. Weed.
M. M. Mach. Shop and Brick Supt.—James Bench
Chief Engr.—F. L. Lindemuth
Engr. of Tests—L. A. Deesz
Safety Engr.—Harrington Shafer
Mgr. Colorado Sup. Co.—Edward Redmond
Chief Elec.—R. N. Vining
Employment Mgr.—L. V. Selleck
Chief Chem. Coke Plant—James M. Scharf
Asst. M. M.—Wm. Prosser
Blast Furnace M. M.—Wm. Schmidt
Open Hearth M. M.—J. E. Merriman
Met.—Jacob Cambier
Chief Chemist—Jos. Gorham
Elec. Foreman—Earl W. Mayhugh

Elec. Foreman—Joseph Wesley
Gen. Foreman Roll Shop—Dave Prosser
Foreman Masons—C. W. Thompson
Auditor Works—P. Christensen
Traffic Mgr.—Ward Wire
Chief Surgeon—Dr. R. W. Corwin
Chief Insp.—J. Hart Reese
Head Watchman L. C. Selleck
Storekeeper—J. H. Fenn
Roll Designer—W. J. Crowe
PRODUCTS—Rails and fastenings, bolts, spikes, pipe bands, cast iron pipe, merchant bars, wire products, coke and by-products such as benzol, toluol, tar naphthalene, Am. Sulphate, etc.
Capacity—Pig iron, 584,000; ingots, 540,000; finished products, 500,000 tons annually
Railroads—Colo. & Wyo., D. & R. G. M. P., Santa Fe, Colo & Southern

COLUMBIA STEEL CO., Butler, Pa. (Plants Butler, Pa., and Elyria, Ohio.)
Vice Pres. Charge Opr.—A. K. Lewis
Works Mgr.—David Thomson
Supt. Hot and Cold Strip Mills—S. J. Pastorius
Supt. Finishing of Hot and Cold Mills—R. Edmunds
Supt. of O. H. Dept.—C. E. Bayer
Asst. Supt. O. H. Dept.—E. D. Buchanan
Supt. 38-in. Slab Mill—P. Stoup
Supt. Forged Steel Wheel Dept.—H. Holiday
Asst. Supt. Forged Steel Wheel Dept.—A. K. Boot
Supt. Wheel Finishing Dept.—G. Bayer
Mechl. and Elec. Engr.—M. McGrail
M. M.—J. Freeman
Supt. Elec. Dept.—R. Black
Const. Engr.—H. G. Taylor
Designing Engr. Wheel Dept.—J. Christfield
Chief Met.—R. B. Dimmick
Asst. Chief Met.—C. F. Feledy
Chief Draftsman—Wm. McKnight
Chief Insp.—C. Ritchie
Pur. Agt.—Geo. Kurtz
Asst. Pur. Agt.—A. Taylor
Supt. of Stores—Geo. Leavitt
Works Accountant—W. Irwin
Chief Chemist—R. Kresge
Supt. Pattern and Carpenter Shops—R. L. Leonard
Supt. Brick Masonry Dept.—J. Reazov
Supt. of Labor—A. Maxwell
Mgr. Personnel and Welfare Dept.—H. Wills

(At Elyria, Ohio Works)

Plant Supt.—E. Miller
Asst. Supt.—C. Hillman
M. M.—J. Jones
Met.—P. Wharton
Chief Insp.—J. Kennington

COLUMBIA STEEL CORP., 215 Market St., San Francisco, Cal. Plants: Pittsburgh, Cal.; Torrance, Cal.; Portland, Ore.; Provo, Utah; iron ore mines at Iron Spring, Utah, and coal mines at Columbia, Utah

Pres.—Wigginton E. Creed
Vice Pres. and G. M.—D. H. Botchford
Vice Pres.—Joseph Sloss
Vice Pres. Sales—John D. Fenstermacher
Treas.—E. V. Wilmar
Asst. Treas.—C. T. Redmond
Sec.—Louis Sloss, Jr.
Pur. Agt.—L. E. Jones

(At Pittsburg, Cal., Plant)

Gen. Supt.—N. A. Becker
Asst. Gen. Supt.—Wm. Cohn
Supt. O H.—O. Kresse and H. Yeaton
Supt. Rolling Mills—J. Lodge
Supt. Wire and Nail Mill—E. Barber
Supt. Sheet Mill—B. Lanz
Supt. Foundry—J. J. Patterson
Night Supt. G. Mabey
Brick Supt.—D. Colombo
Chief Engr.—C. E. Williams
Elec. Engr.—A. B. Hubbard
Asst. Elec. Engr.—J. Nichols
Safety Engr.—Y. Harville
M. M.—C. M. Baker
Pipe Fitter Foreman—H. Neeld
Met.—A. Armitage
Draftsman—D. Wells
Roll Designer—F. Listek
Storekeeper—H. Haynes
Machine Shop Supt.—E. Kent
EQUIPMENT—O. H. Furnaces; foundry, rolling mill, wire, nail and sheet mill
Capacity—9,000 net tons finished products
Railroads—Southern Pacific, Sante Fe and Tidewater

(At Torrance, Cal., Llewellyn Mills)

Mgr.—W. L. Booth
Pur. Agt.—W. M. Nye
Supt. O. H.—J. Monahan
Chief Elec. Engr.—L. H. Figge
Mech Engr.—W. Ostling
M. M.—A. B. Denny
Chemist—Thos. N. Havlin
Safety Engr.—A. B. Wolfe
Storekeeper—F. Woodall

(At Provo, Utah, Works)

Gen. Supt.—W. R. Phibbs
Supt. B. F.—P. W. Jackson
Supt. Coke Plant—C. T. Keigley
Res. Engr.—J. D. Watson
Chief Elec.—F. H. Rooney
M. M.—I. Palmer
Chief Chemist—G. L. Von Planck
Safety Engr.—A. W. Christensen
Gen. Foreman B. F.—F. Cornell
Gen. Foreman Coke Plant—H. B. Makin

(At Portland, Ore., Plant)

Mgr.—Northwest Div.—A. M. Clark
PRODUCTS—Steel castings

COLUMBIA STEEL & SHAFTING CO., Carnegie and Rankin, Pa. Main office: Carnegie, Pa.
Pres.—Edward L. Parker
Vice Pres.—Frank L. Brown
Vice Pres. Sales—Tracy F. Manville
Treas.—Thomas A. Walker
Asst. Treas.—George A. Devey
Sec.—Robert J. Dodds

Pur. Agt.—Harry Teagan
Gen. Supt.—Grant Crennell
Prod. Mgr.—Joseph Koontz
Chief Engr.—H. W. Brightman
Met.—E. T. Ickes
EQUIPMENT—For manufacturing cold finished steel bars
PRODUCTS—Drawn and turned shafting, etc.
Capacity—125,000 tons per year
Capital—$2,400,000
Railroads—P. C. & Y. and P. & L. E.

(At Rankin, Pa., Works)

Gen. Supt.—Edward J. Crennell
PRODUCTS—Cold finished steels

COLUMBIA TOOL STEEL CO., Chicago Heights, Ill.
Pres.—Arthur T. Clarage
Vice Pres.—A. R. Waters
Treas.—A. J. Scheid
Sec.—Alexander B. Peterson
Gen. Supt.—C. B. Shoenberger
Supt. Melting Dept.—W. J. Matthews
Chief Chemist—R. B. McCauley
Met.—A. J. Scheid, Jr.
EQUIPMENT—Crucible furnaces, rolling mills, hammers, heating and annealing furnaces
PRODUCTS—Alloy and carbon tool steels

COMMERCIAL STEEL CASTINGS CO., Otis St., Marion, O.
Pres.—John D. Owens
Vice Pres.—H. J. Barnhart
Treas.—M. C. McNeil
Sec. and Mgr.—Frank D. Glosser
Pur. Agt.—W. A. Griffith
EQUIPMENT—10-ton O. H. furnace
PRODUCTS—Miscellaneous steel castings
Capacity—6,000 tons per year
Railroads—Erie, C. & E., Hocking Valley, Penn., N. Y. C., two electric lines

COMMONWEALTH STEEL CO., Granite City, Ill.
Pres.—Clarence H. Howard
Vice Pres.—Harry M. Pflager
Vice Pres and Sales Mgr.—George E. Howard
Vice Pres. and Mgr. Pur.—Harrison Hobbitzelle
Sec.—Oliver T. Ledford
Treas.—R. Pilsbury
Pur. Agt.—A. W. Carten
Gen. Mgr.—Arthur T. Morey
Asst. to Gen. Mgr.—John H. Locke
Prod. Mgr.—Charles S. Frede
Mech. Supt.—Karl S. Howard
Mech. Engr.—E. G. Halquist
Chemist—Walter G. Roepke
Safety Insp. Edward Quesnal
Employment Office—E. F. Varnum
PRODUCTS—Cast steel trucks, platforms and upright end frames for passenger cars; locomotive beds, pilots, pilot beams, engine trucks; also pans, tender frames and tender trucks for locomotives

CONNELLSVILLE MFG. & MINE SUPPLY CO., Connellsville, Pa.
Gen. Mgr.—Charles L. Baer
PRODUCT—Labor-saving mine machinery

CONNOLLY STEEL CASTING CO., Clark Ave., Chelsea, Mass.
Pres.—Julia Connelly
Treas. and Pur. Agt.—James Connelly
Sec. and Gen. Supt.—Archibald Munro
EQUIPMENT—Two 6-pot crucible furnaces
PRODUCTS—Small crucible steel machinery castings
Capacity—180 tons a year
Capital—$5,000; issued, $2,100
Railroads—B. & M., from Chelsea; B. & A., from Boston; N. Y. N. H. & H.

CONNORS STEEL CO., 1007 Empire Bldg., Birmingham, Ala. Plant: Woodlawn, Ala.
Pres. and Gen. Mgr.—G. W. Connors
Vice Pres., Treas. and Pur. Agt.—W. M. Hoke
Sec.—Geo. W. Connors, Jr.

(At Woodlawn, Ala., Plant, 50th and Southern Railway)

Gen. Supt.—B. B. Pugh
Asst. Gen. Supt.—J. E. Godwin
Master Mechanic—B. W. Peyton
PRODUCTS—Barrel hoops, cotton ties, light steel bands and reinforcing bars.
Capacity—50,000 tons annually
Railroads—Southern

CONSOLIDATED CONCRETE MACHINERY CORP., (Adrian Casting Division), E. Beecher St., Adrian, Mich.
Gen. Mgr. and Pur. Agt.—Isaac Bassett
Gen. Supt.—Fred Fetzer
Chief Engr.—Fred Bristol
EQUIPMENT—Two Cupolas
PRODUCTS—Grey iron and semi-steel castings
Capacity—20 tons
Railroads—D. T. & I. siding; Wabash, N. Y. C.; T. & W.; trunk connections with Detroit, Hillsdale, Flint, etc.

COPLAN STEEL CORP., Ogdensburg, N. Y. **(Subsidiary Hull Iron & Steel Fdry., Ltd.**, Hull, Que.)
Pres.—A. H. Coplan, at Hull, Que.
PRODUCTS—Chromite heat resisting steel grate bars for locomotives, manganese and chrome nickel for mines and cement mills, steel castings, chrome forged steel balls

COPPER-WELD STEEL CO., Glassport, Pa.
Chairman Exec. Committee—I. W. Frank
Pres. and Gen. Mgr.—S. E. Bramer
Vice Pres.—R. J. Frank
Vice Pres.—W. M. Page
Treas.—A. E. Strausser
Sec.—F. R. S. Kaplan
Pur. Agt.—Morris Siegel
PRODUCTS—Copper-welded steel wire

CORRIGAN McKINNEY STEEL CO., 3100 E. 45th St., Cleveland, O.
Pres.—J. W. Corrigan
Vice Pres. Opr. and G. M.—H. T. Harrison
Vice Pres. Sales—J. S. McKesson
Treas.—J. E. Ferris
Sec.—John Watson, Jr.
Asst. to G. M.—L. A. Wakefield
Pur. Agt.—John Fielding, Jr.
Supt. B. F.—Geo. Heffron
Asst. Supt. B. F.—G. O. Hollanbaugh
Supt. O. H.—L. E. Yost
Asst. Supt. O. H.—R. S. Bowers
Supt. Bloom. and Fin. Mills—J. P. McCaslin
Chief Engr.—John Y. Blackwood
Elec. Engr.—I. N. Tull
Gen. M. M.—S. H. Agnes
Chem. and Met.—L. Selmi
Chief Draftsman—Paul B. Tonner
Safety—Dr. R. C. Engel
Storekeeper—D. H. Jones
PRODUCTS—Pig iron, steel, semi-finished and merchant mill products, coke and coke-plant by products
Railroads—All railroads entering Cleveland

CRANBERRY FURNACE CO., Johnson City, Tenn.
Pres.—Ario Pardee
Vice Pres., Treas. and G. M.—Hammond Prosser
Sec.—J. E. Vance
EQUIPMENT—One blast furnace
PRODUCTS—Copper free low phosphorous pig iron
Capacity—14,000 tons per annum
Capital—$100,000
Railroads—Southern, C. C. & O. and East Tenn. & Western N. C.

CRANE COMPANY, 936 So. Michigan Ave., Chicago, Ill. Plants: 4100 So. Kedzie Ave., Chicago; Bridgeort, Conn.
Pres.—R. T. Crane, Jr.
First Vice Pres.—J. B. Berryman
Vice Pres. Mfg. Dept.—C. A. G. Wayman
Asst. Vice Pres. Mfg. Dept.—A. F. Gartz, Jr.
Asst. Vice Pres. Mfg. Dept.—G. H. Periolat
Vice Pres. Real Property—W. J. Clark
Vice Pres. Finance Dept.—P. T. Kelly
Vice Pres. Sales Dept.—C. D. Little
Asst. Vice Pres. Sales Dept.—C. R. Crane, II.
G. M. of Sales—H. W. Seymour
Vice Pres. Branch House Dept.—R. B. Stiles
Vice Pres. Pur. Dept.—D. G. Park
Treas.—W. Evenser
Asst. Treas.—J. H. Steiner
Asst. Treas.—R. O. Samuelson
Sec.—H. P. Bishop
Asst. Sec.—J. S. Bell
Asst. Sec.—J. K. Prentice

(At South Ave., Bridgeport, Conn., Plant)
Gen. Mgr.—J. H. Collier
Asst. Gen. Mgr.—A. E. McDonald
Prod. Supt.—W. E. Noone
Factory Engr.—G. C. Detlefsen
Service Supt.—M. Baxter
Met.—A. P. Ford

CRAWFORDSVILLE WIRE & NAIL CO., Oak St., Crawfordsville, Ind.
Pres.—John Sommer, Peoria, Ill.
Treas.—B. L. Sommer, Peoria, Ill.
Asst. Treas., Sec., Gen. Mgr. and Pur. Agt.—C. D. Boris
Gen. Supt.—Henry Meister
Asst. Gen. Supt.—J. D. Terdoest
M. M. and Mach. Shop Supt.—Wm. Birch, Jr.
Elec. Engr.—Flur O'Neil
Storekeeper—E. J. Sommer
PRODUCTS—Wire nails and sheet metal products
Capacity—150 tons in 24 hours
Capital—$450,000
Railroads—Penn., Big Four; C. I. & L.

CROSBY CO., J. D., Dean and Farrell Sts., Pawtucket, R. I.
Pres.—J. D. Crosby
Vice Pres. Sales—Charles Newman
Treas. and Sec.—Gordon Gordon
Asst. to Sec.—H. W. VanHorn
Gen. Mgr.—R. G. Ashman
Gen. Supt.—F. Locke
EQUIPMENT—Cold rolling mills
PRODUCTS—Cold rolled steel and flat wire

CRUCIBLE STEEL CO. OF AMERICA, 17 E. 42nd St., New York, N. Y. Plants: Four plants in Pittsburgh, Pa., Harrison and Jersey City, N. J.; Syracuse, N. Y. and McKees Rocks, Pa.
Chairman—H. S. Wilkinson
Pres.—F. R. Hufnagel
Vice Pres.—J. M. McComb
Vice Pres.—J. A. Mathews
Vice Pres.—A. T. Galbraith
Treas. and Sec.—George E. Shaw
Asst. Treas. and Asst. Sec.—F. M. Barnes
Pur. Agt.—R. H. Filsinger

(At Jersey City, N J., Works)
Mgr.—W. D. Gross
Supt.—R. Bennewitz
Works Engr. and Local Pur. Agt.—W. G. Jackson
Chemist—J. Tamen

(At Harrison, N. J., Atha Works)
Mgr.—J. O. Rinck
Chief Engr.—George W. Herlick
Elec. Engr.—John Griggs
Met.—Thomas Jobson
Chemist—Charles L. Flack
Draftsman—J. E. Hormley
Roll Designer—S. G. Wagstaff
Safety Insp.—H. Nevins
Form. O. H.—John J. Sullivan
Foreman—W. E. Soper

(At Syracuse, N. Y., Fayette and Magnolia Sts., Sanderson Works)
Mgr.—D. A. Capen
Supt.—H. Spencer
Supt. Wire Annealing—Carl B. Smith

Mech. Engr.—J. P. Stimson
Chief Elec. Engr.—W. A. Dwyer
Met.—J. J. Driscoll
Chemist—O. L. Van Valkenberg
Foreman Roll Mill—W. F. Schneid
PRODUCTS—High speed steel, tool steel, alloy steel and cold drawn steel

(At McKees Rocks, Pa., Works)

Mgr.—M. V. O'Donnell
Supt.—Harry Crone
PRODUCTS—Springs of all descriptions

(At LaBelle Works, North Side, Pittsburgh, Pa.)

Mgr.—C. E. Wise
Asst. Mgr.—Thos. T. Royston
Supt. O. H.—John J. Neenan
Supt.—John A. Scanlon
Supt. Heat Treating—Wm. Bender
Chief Engr.—James Lang
Chief Elec.—H. A. Muller
M. M.—George Jayme
Met.—R. H. McMillen
Chief Chemist—Albert Humes
Roll Designer—Harry W. Williams
Foreman Machinist—George Marshall

(At Park Works, Pittsburgh, Pa.)

Mgr.—R. H. Davis
Supt.—C. R. Cox
Supt. O. H. and Bloom. Mills—S. A. Jackson
Asst. Supt. and Safety Engr.—R. C. Jayne
Brick Supt.—W. L. Thompson
Steam Engr.—J. C. Micklow
Met.—W. A. Jayme
Chief Chemist—C. Morris Johnson
M. M.—F. L. Ebersole
Elec. Engr.—H. E. Boedecker
Draftsman—Frank J. Wood
Foreman Machinist—J. C. Millgrove
Roll Designer—L. W. King
Storekeeper—R. O. Bridge

CRUCIBLE STEEL CASTING CO., Almira and W. 84th St., Cleveland, O.
Pres.—W. H. Shepard
Vice Pres., Treas. and Pur. Agt.—M. G. Tielke
Sec.—H. F. Tielke
Gen. Mgr.—H. L. Allen
Gen. Supt.—W. E. Nachtigall
EQUIPMENT—Steel foundry
PRODUCTS—Small steel castings, alloy steel
Capacity—2,000 tons annually
Railroad—C. N. W.

CRUCIBLE STEEL CASTING CO., Union Ave. and P. R. R., Lansdowne, Pa.
Pres.—C. R. H. Cunningham
Vice Pres., Treas. and P. A.—H. Bloodsworth
Sec.—H. C. Cunningham
Gen. Supt.—J. Walsch
Chemist—D. H. DeVaux, Jr.
PRODUCTS—Steel castings

CRUCIBLE STEEL CASTING CO., 15th and Oklahoma Ave., Milwaukee, Wis.
Pres. and G. M.—Albert C. Lange
Vice Pres.—Walter W. Lange
Treas.—Allen J. Hoffman
Sec.—W. W. Lange
P. A.—F. A. Lange, Jr.
EQUIPMENT—Two 1½-ton electric furnaces
PRODUCTS—Electric steel castings, electrically annealed
Capacity—600 tons per month
Capital—$150,000
Railroad—C. N. W.

CUMBERLAND STEEL CO., Cumberland, Md.
Pres. and G. M.—Wallace McKaig
Sec.-Treas.—J. M. Rhind
PRODUCTS—Cumberland ground shafting, cold drawn shafting, flange couplings, safety set collars

CYCLONE FENCE CO., Waukegan, Ill. Subsidiary American Steel & Wire Co.
Gen. Mgr.—J. H. Kinney
Gen. Supt.W. Bilharz

CYCLOPS STEEL CO., INC., Bridgeville, Pa.
Pres. and Treas.—W. N. Baker
Vice Pres.—Frank Garrett
Vice Pres. and Gen. Mgr.—C. T. Evans
Asst. Treas.—J. N. Blair
Sec.—E. L. Stockdale

(At Titusville, Pa., Plant)

Gen. Supt.—R. C. Bovard
M. M.—G. W. Brailsford
Met.—C. M. Ridgway
Chemist—H. O. Shultz
Machine Shop Supt.—G. Ellis
Roll Designer—H. Kanhofer
Storekeeper—W. A. Bloom
EQUIPMENT—Three 30-pot crucible furnaces; one 10-inch and one 12-inch rolling mill, 9 hammers, one ½-ton electric furnace
PRODUCTS—High speed alloy and other tool steels, special non-corrosive and non-magnetic steels
Capacity—Ingot capacity, 7,000 tons
Capital—$500,000 preferred; $500,000 common (no par value)
Railroads—P. R. R. and N. Y. C.

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DAMASCUS STEEL CASTING CO., New Brighton, Pa. Plant at Hammond, Ind.
Pres.—Charles A. Capper
Vice Pres.—E. M. Capper
Treas. and G. M.—I. C. Anderson
Sec. and Pur. Agt.—Walter Quivey
Asst. Gen. Mgr.—T. G. Bateman
Supt. Fdry.—D. Fisher
Supt. Elec.—W. Shotsinger
Chemist—B. E. Kraybill
EQUIPMENT—One 2-ton electric furnace
PRODUCTS—Alloy steel castings
Capacity—1,400 tons
Capital—$300,000
Railroads—Penn. and P. & L. E.

(At Hammond, Ind., Plant)
Gen. Supt.—E. J. Stauffer
Supt. Stel Fdry.—A. B. Couch
Supt. Elec. Steel—J. M. Quinn
EQUIPMENT—One 2-ton electric furnace
PRODUCTS—Steel castings
Capacity—1,400 tons
Railroad—Nickel Plate

DANVILLE IRON & STEEL CORP., Danville, Pa.
Pres. and G. M.—J. E. Kennedy
Vice Pres. and Supt.—F. O. Reedy
Treas.—Irvin Vannan
Asst. Treas.—Thos. J. McDermott
Sec. and Pur. Agt.—Frank M. Irving
Asst. Gen. Supt.—Ben J. Voris
PRODUCTS—Machine work and castings of all kinds

DANVILLE STRUCTURAL STEEL CO., INC., Danville, Pa.
Pres.—C. S. Wagner
Vice Pres. Opr. and G. M.—H. W. Bay
Vice Pres. Sales—C. A. Weymouth
Treas.—J. N. Pursel
Sec.—M. E. Glover
EQUIPMENT—Rolling Mills
PRODUCTS—Tubing, Angles, Channels, Flats, Rounds, Reinforcing Bars, etc.
Capacity—3,000 tons per month.
Capital—$175,000 preferred; 25,000 shares no par common.
Railroads—D. L. W.; Reading, Penna.

DAVIS BROTHERS, INC, 4250 Wissahickon Ave., Philadelphia, Pa.
Pres. and Treas.—Edward L. Davis
Sec.—William G. Boggs
Pur. Agt.—Norman I. Huntley
Gen. Mgr.—H. M. Hessenburch
PRODUCTS—Railroad, boat and wharf spikes, iron and steel bars, re-inforcing concrete bars

DAVIS IRON WORKS, 825 S. Center St., Stockton, Cal.
Pres.—Geo. E. Davis
Sec.—L. Easton
Gen Mgr.—B. S. Davis
Supt.—W. E. Rule
Elec. Engr.—H. T. Jones
PRODUCTS—Electric Motors, etc.

DAYTON MALLEABLE IRON CO., 1307 W. 3rd St., Dayton, O. Plants: Dayton, Canton and Ironton, O.
Pres. and G. M.—John C. Haswell
Vice Pres. Sales—H. O. Hunter
Vice Pres.—W. B. Runyan
Treas.—C. E. Swank
Sec. and P. A.—R. M. Robinson
PRODUCTS—Steel and malleable iron castings
Capacity—2,000 tons steel castings, 50,000 tons malleable castings

(At Canton, O., Plant)
(Plant closed temporarily)
Mgr.—George P. Pearce

(At Ironton, O., Plant, 2630 So. 3rd St.)
Mgr.—C. D. Townsend
Gen. Supt.—J. H. Kelly
Asst. Supt.—L. A. Rodelius
Chief Engr.—Neil Van Valkenberg
Pur. Agt.—W. J. Patton
Supt. Melting Furnaces—W. C. Smith
M. M.—C. C. Clark
PRODUCTS—Malleable iron castings
Capacity—15,000 tons
Railroads—N. &. W. and D. T. & I.

DAYTON STEEL FOUNDRY CO., Miami Chapel Road and B. & O. R. R., Dayton, O.
Pres.—George Walther
Vice Pres. and G. M.—Jacob Walther
Treas. and Sec.—W. A. Pierce
Pur. Agt.—J. A. Graham
Gen. Supt.—A. M. Gohmann
Supt. Machine Shop—Wm. Walther
Chief Engr.—H. C. Baker
M. M.—Robert Shaffer
Met.—H. H. Walther
Storekeeper—J. Edward Rice
EQUIPMENT—Three 3-ton electric furnaces
PRODUCTS—Cast metal auto truck wheels
Capital—$750,000
Railroads—B. & O.

DEEMER STEEL CASTING CO., New Castle, Del.
Pres. and Gen. Mgr.—Newlin T. Booth
Vice Pres. and Treas.—Charles F. Jenkins
Sec.—George B. Harvey
Asst. Treas.—J. H. Speicher
Sales Mgr.—A. H. Jameson
Supt. Fdry.—Harry J. Rothrock
M. M., Elec. Engr.—James A. Crossett
EQUIPMENT—Two 3-ton side blow converters
PRODUCT—Steel castings
Capacity—3,000 tons
Railroads—Penna., P. & R., B. & O., Boat

DELAWARE RIVER STEEL CO., Chester, Pa.
Pres.—Charles Hart
Treas. and Sec.—Robert H. McCurdy
Supt. B. F.—W. Lloyd Wolfe
EQUIPMENT—One furnace, four stoves
PRODUCTS—Pig iron, low phosphorus, Bessemer, malleable basic and foundry pig iron

DELAWARE SEAMLESS TUBE CO., Auburn, Pa.
Pres.—H. E. Sheldon
Vice Pres.—R. D Campbell
Treas.—V. M. Kennerdell
Sec.—F. H. Stephens
Gen. Mgr. and Pur. Agt.—S. B. Vernon
Gen. Supt.—T. E. Crantz
Supt. Rolling and Pilger Mills—R. J. Schwartz
Supt. Finishing Mills—J. McCulloch
Draftsman—H. T. Carson
EQUIPMENT—One 10-inch rolling mill, one 14-inch piercing mill and one 12-inch pilger mill

PRODUCTS—Cold drawn seamless steel tubing consisting of boiler tubes, mechanical tubing, chrome alloy tubing and smooth inside oil well working barrel tubing
Capacity—5,000 tons annually
Capital—$200,000
Railroads—Penna. and Reading

DELTA CHEMICAL & IRON CO., Wells, Delta County, Mich.
Pres.—M. J. Corbett, Binghampton, N. Y.
Vice Pres.—J. Earl Morgan, Oshkosh, Wis.
Sec.—G. N. Harder
Treas., Pur. Agt. and Gen. Mgr.—G. C. Craver
Asst. Treas.—G. M. Nolden
Gen. Supt.—J. L. Stuart, Corbett, N. Y.
Chief Engr.—Joseph Cloutier
Supt. Labor—Waldo Roberts
Met.—J. T. Fox
Chemist—Wm. Mather
PRODUCT—Charcoal pig iron

DEMPSTER MILL MFG., CO., 711 S. 6th St., Beatrice, Neb.
Pres. and Gen. Mgr.—C. B. Dempster
Vice Pres. and Sales Mgr.—H. L. Dempster
Treas.—A. W. King
Sec. and Pur. Agt.—R. H. Barger
Supt.—H. E. Lawrence
Chief Engr.—Herman N. Loeber
Factory Mgr.—Clyde B. Dempster
PRODUCTS—Gas Engines, Well and Water Supplies, etc.
Railroads—Burlington, U. P. and Rock Island.

DENNISON ALLOY & STEEL CASTING CO., THE, Dennison, O.
Receiver—Jno. A. Fouts

DENVER ROCK DRILL MFG. CO., 18th and Blake Sts., Denver, Colo.
Pres.—A. H. Skaer
Vice Pres.—A. J. Philpott
Treas.—H. E. Fiske
Sec.—G. R. Grieve
Pur. Agt.—H. K. Duvall
Gen. Supt. C. F. Anderson
Fdry. Supt.—A. C. Hovey
Chief Elec. Engr.—Wm. Neahr
Asst. Elec. Engr.—James Ware
Mech. Engr.—O. E. Clark
Steam Engr.—R. F. Wiley
Met.—Joseph Shrewsberry
Draftsman—B. R. Sheets
Storekeeper—Cyrus Ater
EQUIPMENT—Steel foundry for own use
Capacity—650 tons steel castings

DESOTO FOUNDRY & MACHINE CO., Mansfield, La.
Pres. and G. M.—Charles R. Law
Vice Pres.—Ben Johnson
Treas. and Sec.—D. W. Derrick
Asst. Gen. Mgr.—Charles T. Law
Supt. Fdry.—V. L. Stevens
M. M.—L. Ballett
Storekeeper—H. W. Ailstock
EQUIPMENT—Machine shop, blacksmith and pattern shops, steel and iron foundries
PRODUCTS—Steel and iron castings, rough, finished for saw mills, oil fields and railroads
Capacity—10 tons daily
Capital—$150,000
Railroads—K. C. S. and T. & P.; also truck lines

DETROIT SEAMLESS TUBES CO., West Warren and Wyoming Ave., Detroit, Mich.
Chairman—J. W. Hubbard, Pittsburgh, Pa.
Pres. and G. M.—C. H. Hobbs
Sec. and Treas.—S. J. Cameron
Asst. Treas., Asst. Sec. and Pur. Agt.—F. W. Conant
Gen. Mgr. of Sales—S. H. Worrell
Gen. Supt.—J. H. Dunbar
Supt. Rolling Mill—W. Corwin
Elec. Engr.—C. M. Sutton
M. M.—M. B. Steinkirchner
Met.—D. O. Rash
Draftsman—Geo. Cope
Storekeeper—W. G. Stevenson
PRODUCTS—Seamless steel tubes
Capacity—36,000 tons annually
Capital—$2,000,000
Railroads—Detroit Terminal and Union Belt

DETROIT STEEL CORP., 971 S. Oakwood Ave., Detroit, Mich.
Pres.—W. C. Schrage
Vice Pres. and Gen. Supt.—Oscar Olson
Treas.—Anthony Bodde
Asst. Treas.—V. L. McEnally
Sec.—Arthur A. Scharge
Pur. Agt.—C. L. Smith
Chief Elec.—Wm. Radcliffe
EQUIPMENT—9 mills
PRODUCT—Cold rolled strip steel
Capacity—25,000 tons annually
Capital—$500,000
Railroads—M. C. R. R. Siding

DETROIT STEEL CASTING CO., 4069 Michigan Ave., Detroit, Mich.
Pres.—J. S. Newberry
Sec.—W. S. Allen
Treas.—J. P. Warren
Vice Pres. and G. M.—S. W. Utley
Pur. Agt.—G. O. Smith
Gen. Supt.—E. W. Pike
O. H. Supt.—Oscar Jordan
Gen. M. M.—G. O. Coffey
Prod. Engr.—A. R. Robertson
Chemist and Met.—Elmer E. Mains
EQUIPMENT—Two 20 ton acid open hearth and one 1½-ton electric furnace
PRODUCTS—Steel castings
Capacity—12,000 tons open hearth castings; 3,600 tons electric furnace castings per year
Capital—$900,000 par value common stock
Railroads—Mich. Central. Siding

DEVLIN MFG. CO., THOMAS, 23rd St. and Sedgley Ave., Philadelphia, Pa.
Pres.—Samuel S. Fretz, Jr.

Vice Pres. Opr. and Treas.—Raymond Groff
Vice Pres. Sales—Geo. P. Cartwright
Sec. and Gen. Mgr.—Andrew H. Clark
Asst. Treas.—Charles F. Bauer
Pur. Agt.—Wm. Bergmeister
Gen. Supt.—J. Edward Gillece
Asst. Gen. Supt.—Everett G. Fenn
Chief Engr.—W. Elwood Shultz
PRODUCTS—Malleable and grey iron fittings for the plumbing, heating and oil industries
Railroad—Penna.

DIBERT, BANCROFT & ROSS CO., New Orleans, La.
EQUIPMENT—Three-ton electric furnace

DILWORTH, PORTER & CO., 4th and Bingham Sts., S. S., Pittsburgh, Pa.
Pres. and Treas.—F. C. Stoeltzing
Vice Pres.—W. F. Schleiter
Asst. Treas. and Sec.—Joseph Dilworth
Gen. Mgr.—J. C. Dilworth
PRODUCTS—Spikes and tie plates

DISSTON & SONS IRON AND STEEL WORKS, HENRY, Tacony, Philadelphia, Pa.
Pres.—Frank Disston
Vice Pres.—Henry Disston
Vice Pres. and Gen. Mgr.—George Satterwaite
Vice Pres.—S. Horace Disston
Treas. and Sec.—Wm. S. Armstrong
Pur. Agt.—Wm. D. Disston
Mgr. Steel Sales—H. A. Baxter
Mgr. Steel Works—Charles H. Williams
Works Mgr.—R. T. Nalle
Mgr. Statistical Dept.—J. L. Stone
Mgr. Met. Res.—H. B. Allen
Supt. Melting Dept.—J. M. Goodpasture
Chief Engr.—N. C. Bye
Chemist—Aaron Merzbacher
Storekeeper—W. F. Porter
EQUIPMENT—One 6-ton, one 3-ton Heroult electric furnace; three 30-pot crucible furnaces, two 16-inch and 18-inch sheet mills, 84-inch plate mills; two 20-inch, five 10-inch, 13 8-inch cold mills; 18-inch bar and billet, 12-inch and two 9-inch guide mills; 5 steam hammers; 3,000 kw. turbo generator; 8 engines, 4,000 hp.
PRODUCTS—Tool steel, sheet steel, saw plates, bands, cold rolled, hammered and rolled bars
Capacity—50,000 tons annually
Incorporated—$3,000,000

DODGE STEEL CO., Tacony, Philadelphia, Pa.
Chairman—Charles Piez
Pres.—Staunton B. Peck
Vice Pres. Sales and G. M.—Clarence Tolan, Jr.
Treas., Sec. and G. S.—Chester S. Roberts
Pur. Agt.—Morris Kutz
Met.—J. V. McCrae
M. M.—Edward Lindsley
EQUIPMENT—One 2-ton acid electric furnace
PRODUCTS—Steel castings
Capacity—2,300 gross tons
Capital—$300,000
Railroads—Penn. siding

DONNER STEEL CO., INC., Buffalo, N. Y. Office and Works: 475 Abbott Rd. Blast Furnace: North Tonawanda, N. Y.
Pres.—W. H. Donner
Vice Pres. Sales—W. F. Vosmer
Vice Pres.—Robert Donner
Vice Pres. and Treas.—F. K. Smith
Sec.—W. W. Hancock
Asst. Treas.—T. H. Craig
Auditor—P. F. Boyer
Pur. Agt.—R. A. Butler
Gen. Supt.—J. W. Donner
Asst. Gen. Supt.—A. G. Greenamyer
B. F. Supt.—F. C. Davies
Asst. B. F. Supt.—O. E. Clark
C. H. Supt.—Samuel Muir
Supt. Blooming Mills—J. Roof
Supt. Finishing Mills—H. C. Hutchinson
Brick Supt.—W. Stuart
Chief Engr.—A. L. Foell
Elec. Engr.—Edward Coates
Steam Engr.—Wm. J. Harper
Metl. Engr.—W. C. Peterson
Metl. Engr.—R. E. Sherlock
Safety Engr.—M. H. Stearns
M. M.—J. Norman Wilson
Chemist—N. L. Church
Roll Designer—F. L. Thomas
Supt. Labor and Transp.—W. B. Caylor
Storekeeper—K. Abbott
EQUIPMENT—2 blast furnaces, 10 open hearth furnaces, blooming mill, billet mill, 14, 10 and 8-inch bar mills
PRODUCTS—"Niagara" Foundry, malleable and basic pig iron; alloy and carbon open hearth steel; electric steel, blooms, slabs, billets, bars, bands and coils (annealed and hot rolled); rounds, squares, flats, hexagons and special shapes; die rolled parts, such as rear axle shafts, drive shafts, forging blanks, etc.; spring steel, cutlery steel, cold drawn steel and concrete reinforcing steel
Capacity—5,000 tons ingots
Railroads—Shipments by rail, lake boats, or barge canal

DOVER IRON CO., Tennessee Ridge, Tenn., Route No. 2
Chairman and Sec.—H. C. Williams
Vice Pres. and Gen. Mgr.—John C. Ralls
Asst. Treas. and Asst. Sec.—Lillian Ralls
EQUIPMENT—One 36-inch cold blast
PRODUCT—Charcoal pig iron
charcoal iron stack
Capacity—3,500 tons annually
Capital—$40,000
Railroads—L. & N.

DRAIN STEEL CO., Moore, Pa.
Pres.—John A. Drain
Treas. and Sec.—George Sutherland
PRODUCTS—Steel ingots, alloy steel ingots
Capacity—50,000 tons annually

DRIVER-HARRIS COMPANY, Middlesex St., Harrison, N. J.
Chairman—F. L. Driver
Pres. and G. M.—F. L. Driver, Jr.
1st Vice Pres.—Wm. P. Martin
2nd Vice Pres.—Harry D. McKinney
Treas. and Sec.—Stanley M. Tracy
Asst. Treas. and Pur. Agt.—Ernest A. Harleman
Gen. Supt.—John Hoza
PRODUCTS—"Nichrome" castings, rods, strips and sheets, rope, cords, "Nichrome" valves, "Nichrome" and other alloys for electrical resistance; "Nichrome" B, "Nichrome" bolts and nuts for heat resisting purposes; hot rolled "Nichrome" bar, shapes and sheets; "Cimet" for corrosion resisting purposes, cold rolled strip steel, hot rolled carbon tool steels
Capital—Preferred, $3,000,000; issued, $1,175,400; common, $1,500,000; issued, $1,000,000; bonds issued, 1st mortgage bonds. 1931, $1,163.500
Railroad—Penna. siding

DRUMMOND MFG. CO., INC., 1214 W. Main St., Louisville, Ky.
Pres. and Treas.—E. M. Drummond
Vice Pres.—J. A. Drummond
Sec.—R. P. Drummond
Pur. Agt.—J. A. Drummond
Asst. Gen. Mgr.—R. S. Johnson
PRODUCTS—Gray iron and semi-steel castings, steel axles, H. R. T. boilers, stacks, tanks
Railroads—I. C., P. R. R., South. R. R., B. & O., Monon., L. & N., L. H. & St. L., C. & O.

DUDLEY ELECTRIC & MACHINE CO., 309 E. Main St., Uniontown, Pa.
Pres. Sales Mgr. and Supt.—W. E. Dudley
Vice Pres. and Elec. Engr.—Guy C. Mahoney
Treas., M. M. and Draftsman—J. T. Dudley
Asst. Treas., Sec. and P. A.—A. L. Dewey
Chief and Power Engr.—Harry E. Street
Mech. Engr.—G. F. Pie
Storekeeper—Robert Conn
PRODUCTS—General Machine Work
Capital—$50,000; issued $32,000.
Railroads—Penna., B. & O.

DUNBAR CORP., (formerly American Manganese Mfg. Co.,) Dunbar, Pa.
Chairman—Wm. P. Gest, at Philadelphia, Pa.
Pres.—Wm. McLean
Vice Pres. and G. M.—R. M. Marshall
Treas. and Sec.—Wm. E. Arnold, at Philadelphia, Pa.
Asst. Treas. and Pur. Agt.—Reginald Palmer
Supt. B. F.—Wm. A. Brown
M. M.—H. F. Shaffer
Chief Draftsman—L. Gangaware
EQUIPMENT—Two blast furnaces, 110 Semet-Solvay ovens
PRODUCTS—Pig iron, Spiegel, Ferro manganese
Capacity—300 tons per day

DUQUESNE STEEL FOUNDRY CO., Kendall Station, Coraopolis, Pa.
Pres.—D. C. Bakewell
Vice Pres. Opr. and G. M. and G. S.—W. E. Troutman
Treas.—E. S. Eggers
Sec. and P. A.—B. P. Bakewell
Asst. Treas.—A. W. Remensnyder
Asst. to Sec.—Geo. S. Kern
Asst. Gen. Mgr. and Asst. G. S.—F. B. McConnell
Sales Mgr.—E. R. Williams
Sales Agt.—H. A. Lomax
Supt. O. H.—Walter H. White
M. M.—W. J. Lobach
Met. and Chem.—F. G. Frisbie
Machine Shop Supt.—John Yoder
Chief Draftsman—A. M. Capper
Safety—J. P. Leonard
Storekeeper—John M. Wyke
PRODUCTS—Steel castings, rolls and annealing equipment
Capacity—2,000 tons per month
Capital—$825,600
Railroad—P. & L. E. and P. R. R.

DURABLE PRODUCTS CO., 111 S. 15th St., Philadelphia, Pa.
Pres.—C. W. Edgerton
Treas.—H. H. Evans
Sec.—Geo. M. Leathem
PRODUCTS—Galvanizing kettles and annealing boxes
Railroads—P. R. R.

DURALOY CO., THE, 47 Terminal Way, Pittsburgh, Pa. Plant: New Cumberland, W. Va.
Pres.—Thomas R. Heyward, Jr.
Vice Pres.—W. F. Furman, at New York City
Treas.—Charles C. Bailey
Sec. and Asst. Treas.—C. E. Hughes
Chief Engr.—C. P. Mills
Asst. Chief Engr.—John W. Jones
PRODUCTS—Duraloy chrome and iron products in castings, sheets, plates, bars, rods, wire and tubing, and fabricated forms

(At New Cumberland, W. Va.)
Gen. Supt.—O. K. Carpenter
EQUIPMENT—Electric furnace

DYCAST STEEL CO., Collinsville, Conn.
Mgr.—A. S. Parmelee
Chief Draftsman—F. H. Peterson

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EAGAN-JOHNSON STEEL & IRON CO., Chester Pike, Crum Lynne, Pa. Formerly Eagan-Rogers Steel & Iron Co.
Pres. and G. M.—Daniel C. Eagan
Vice Pres.—Richard G. Park, Jr.
Treas. and Sec.—Allen A. Johnson
Pur. Agt. and Gen. Supt.—G. F. Ebeling
Chief Engr. and M. M.—L. Mattern
Met.—Joseph F. Donato
EQUIPMENT—Converters
PRODUCTS—Small steel castings

Capacity—6,000 tons per year
Capital — $500,000; issued, $150,300; bonds issued, $150,000
Railroads—P. B. & W., Reading, Chester Boat

EASTERN ROLLING MILL CO., Baltimore St. and Holling Mill Ave.; P. O. Box 1113, Baltimore, Md.
Pres. and Gen. Mgr.—J. M. Jones
Vice Pres., Sec. and Pur. Agt.—L. J. Jones
Vice Pres.—C. E. F. Clarke
Treas. and Asst. Sec.—J. A. Downey
Asst. Treas.—Oliver Auodoun
Sales Mgr.—A. J. Hazlett
Asst. Sales Mgr.—E. J. Matthews
Mgr.—C. A. Pennock
Asst. Mgr.—J. E. Cook
Chief Engr.—Josef Hirchmann
Chief Elec.—W. C. Frado
Safety Engr.—T. R. Matthews
M. M.—J. Duffy
Met.—Thos. Dockray
Storekeeper—W. Avig
EQUIPMENT—12 hot mills for rolling high-finish sheets
PRODUCTS—Steel sheets
Capacity—60,000 gross tons

EASTERN STEEL CO., Pottstown, Pa. Furnace: Pottstown, Pa. Steel Plant: Pottsville, Pa.
Receiver—Edward L. Herndon

(At Pottstown, Pa.)

Supt. B. F.—S. S. Engle
M. M.—Ernest Keefer
EQUIPMENT—Two blast furnaces

(At Pottsville, Pa.)

Gen. Supt.—J. A. Milton
Supt. O. H. and Blooming Mill—E. M. Johnson
Supt. Fin. Mill and Roll. Des.—J. H. Rose
Chief Engr.—Edw. Schlitzer
M. M.—Albert Michel
PRODUCTS—Structural steel

EASTERN STEEL CASTING CO., 30 Kemble St., Boston, Mass.
Prop. and Mgr.—John W. Johnson
PRODUCTS — Crucible steel castings, nickel and chrome alloy steel castings
Capacity—600 tons annually
Fuel—Crude petroleum

EASTERN STEEL CASTINGS CO., (Formerly Bayonne Steel Castings Co.), Ave. L, and Edward St., Newark, N. J.
Pres. and Treas.—Wm. D. Sargent
Vice Pres., Opr. and G. M.—E. F. Miltenberger
Sec. and Asst. Treas.—M. C. Renshaw
Asst. Sec.—J. O. Armstrong
Gen. Supt.—W. Cadwallader
Asst. Gen. Supt.—Sam McClure
Machine Shop Supt. and M. M.—J. Poldauf
Chief Engr.—F. D. Campbell
Chemist—T. Benedict
Safety Engr.—J. H. Reitzel
Chief Draftsman—A. L. Bussman
Storekeeper—Frank Dyer

EQUIPMENT—One 8-ton O. H., one 1½-ton electric furnace, 6 traveling cranes, 2 annealing furnaces, drying ovens, etc.
PRODUCTS—Electric steel castings
Capacity—700 tons
Railroads—C. R. R. of N. J.; private siding; Penna., Erie, D. L. & W., L. V.

ECKELS-NYE CO., Syracuse, N. Y.
Pres. and Gen. Mgr.—Philip Eckel
Vice Pres.—Frank Eckel
Sec. Treas. and Pur. Agt.—Frank M. Sears
Supt. Draftsman, Roll Designer—Jacob E. Eckel
Elec. Engr.—Thomas Fitzpatrick
Steam Engr.—James H. Grant
PRODUCTS—Re-rolled rail steel, light angles and bars

EDDYSTONE STEEL CO., Crum Lynne, Pa.
Pres. and G. M.—John E. Sullivan
Sec.—Robert J. Sullivan
Treas. and P. A.—J. B. Mosbrook
PRODUCTS—Blue annealed steel sheets and plates; alloy and bullet proof steel sheets and plates

EDGEWATER STEEL CO., Oakmont, Pa.
Pres.—Frank B. Bell
Vice Pres. Sales—W. V. D. Wright
Treas.—John Henderson
Sec.—J. H. Baily
Pur. Agt.—W. A. McKean
Gen. Mgr.—M. A. Smith
Supt.—R. C. Boak
Asst. Supt.—C. E. Corson
Supt. O. H.—F. K. Buchanan
Supt. Forge Dept.—Charles Hibert
Chief Engr.—B. W. Dunham
Chief Elec. Engr.—A. W. McAuley
Mech. Engr. Spring Dept.—Oscar R. Wikander
M. M.—J. S. Green
Chief Chemist—A. T. McBride
Chief Draftsman—F. H. Bryen
Supt. Machine Shop—J. C. Crocker
PRODUCTS—Rolled steel wheels, steel tires for all purposes, rolled steel rings, all sizes and draft gears for railway equipment

EDWARDS, E. T., 7th and Locust Sts., Columbia, Pa.
Prop.—E. T. Edwards
Elec. Engr.—Albert Kendig
PRODUCTS—Refined iron bars and muck bar, steel re-inforcing bars

ELECTRIC ALLOY CO., Morristown, N. J. Division of Driver-Harris Co., Harrison, N. J.
Div. Plant Mgr.—C. V. Tillotson
PRODUCTS—Special alloys and pure metals; castings, rods, strip wire for electrical, automotive, chemical and mechanical uses

ELECTRIC STEEL CASTINGS CO., Indianapolis, Ind. Box 1096. (Formerly Electric Steel Co. of Indiana)
Pres.—Hugh M. Love

Vice Pres.—P. J. McNamara
Treas.—Hugh McK. Landon
Sec. and Pur. Agt.—T. A. Elder
Sales Mgr.—K. Smith
Gen. Mgr.—M. G. Spencer
Asst. Supt.—I. R. Wagner
Chief Engr., Mech. Engr. and Elec. Engr.—Abner Mears
Sales Mgr.—K. Smith
EQUIPMENT—One 3-ton Heroult furnace
PRODUCTS——Small steel castings
Capacity—2,500 tons
Capital—$50,000

ELECTRIC STEEL FOUNDRY CO., 24th and York Sts., Portland, Ore.
Pres.—C. F. Swigert, Jr.
Vice Pres. Opr.—C. F. Swigert
Treas.—E. G. Swigert
Sec.—George F. Schott
Pur. Agt.—Herman Cohn
Gen. Supt.—Newman Ward
M. M.—A. J. Weber
Met.—R. Simpson
Foremen—George Bacon and R. M. McDonald
PRODUCTS—Steel castings of all descriptions
Capacity—6,000 tons per year
Capital—$150,000; issued, $116,000

ELECTRO-METALLURGICAL CO., 30 E. 42nd St., New York, N. Y. Plants: Niagara Falls, N. Y., Glen Ferris, W. Va.; Holcomb Rock, Va.
Pres.—B. O'Shea
Vice Pres.—F. M. Becket
Vice Pres.—W. J. Knapp
Treas.—C. T. Ayers
Asst. Treas.—C. A. Richter and L. C. Ripley
Sec.—A. C. Cornell
Asst. Sec.—P. F. Smith
Pur. Agt. and Asst. Sec.—J. B. Huffard
PRODUCTS—Ferro alloys
Capital—$5,000,000, owned by Union Carbide and Carbon Co.; bonds issued, $1,165,000

ELLIOTT-BLAIR STEEL CO., 5th floor, Johnson Bldg., New Castle, Pa. Plants: 19 Taylor St., New Castle, and Mercer, Pa.
Pres.—Noah W. Elliott
Treas.—Thomas C. Elliott
Sec.—Reuben J. Elliott
Gen. Mgr.—Elmer L. Elliott
PRODUCT—Cold rolled strip steel

ELMIRA STEEL CO., (Formerly Valley Rolling Mills, Inc.), 56 Pine St., New York, N. Y. Plant: Elmira, N. Y.
Pres.—John C. Christopher
Vice Pres.—Edward F. Quirke
Sec. and Treas.—Sara B. Quirke

(At Elmira, N. Y.)

Gen. Supt.—J. S. Quirke
Asst. Supt.—Wm. Keating
EQUIPMENT—Open hearth furnace, billet, bar and band mills
PRODUCTS—Bars, bands, small angles and channels, hot rolled strips
Railroads—Penna., L. & W.; Erie, L. V.

EL PASO FOUNDRY & MACHINE CO., P. O. Box 352, El Paso, Tex.
Pres and G. M.—W. D. Small
Vice Pres. and Treas.—R. H. Carrington
Sec.—O. G. Lemley
Gen. Supt.—John T. Watson
Chief Engr.—A. V. Bender
EQUIPMENT—Two 2-ton side blow converters
PRODUCTS—Iron, brass, steel castings, mining machinery, fabricated structural steel tanks
Capacity—Iron, 50 tons daily; steel, 50 tons monthly; brass, 1 ton daily; fabricated steeel, 300 tons monthly
Capital—$300,000

ELLWOOD STEEL CORP., Ellwood City, Pa.
Pres.—J. A. Gelbach
Vice Pres.—Ira E. Bixler, Pittsburgh, Pa.
Treas. and Gen. Supt.—August Miller
Sec. and Pur. Agt.—John J. Tyler
EQUIPMENT—Nail and wire making machinery
PRODUCTS—Wire and Nails
Capacity—1,000 kegs of nails per day
Capital—$250,000; issued, $215,000; bonds, $35,000
Railroads—P. & L. E. and B. & O.

ELWOOD STEEL PLANT, Elwood, Ind. (Subsidiary Ames Shovel & Tool Co.)
Gen. Supt.—T. E. Palmer

ELYRIA FOUNDRY CO., THE, Elyria, O.
Pres. and Treas.—Alex C. Brown
Vice Pres., P. A.—W. F. Davies
Sec.—Geo. C. Wing
Gen. Mgr.—R. G. Clapp
Asst. Gen. Mgr.—W. F. Gallmer
PRODUCTS—Semi-steel, iron and brass castings
Capacity—1,000 tons per month
Capital—$50,000
Railroads—N. Y. C., B. & O.

ELYRIA IRON & STEEL CO., 224 East 131st St., Cleveland, O. Plant: 14th St. and Murray Ave., Elyria, O., and Toledo, O.
Pres.—Hugh B. Wick
Vice Pres.—Myron A. Wick
Treas. and Sec.—George F. White
Asst. Treas. and Asst. Sec.—Geo. C. W. Klippel
Asst. Treas.—Wm. J. Sampson, Jr.
Asst. Sec.—Henry Wick
Pur. Agt.—Elmer Falk

(At Elyria, O., Plant)

Gen. Supt.—W. W. West
Chief Engr.—R. A. Shryock
Mech. and Elec. Engr.—James Parks, Jr.
Met. and Chief Chemist—Joseph Adelson
Roll Designer—Warren Shafer

EQUIPMENT—Hot mills, cold mills, finishing departments
PRODUCTS—Hot and cold strip, butted and brazed pipe
Capacity—3,000 tons per month
Capital—Preferred, $500,000; issued, $374,900; common, $3,000,000; issued, $1,649,000

(At Detroit and Fitchland Ave., Toledo, O.)
(Standard Steel Tube Div.)
Supt.—Ed. Kamper
Asst. Supt.—H. J. Kaighin
Chief and Safety Engr.—C. A. Braun
Elec. Engr.—Wade Patton
PRODUCTS—Welded steel tubing
Railroads—Michigan Central switch

EMERY STEEL CASTINGS CO., Baltimore, Md. Office: Continental Bldg. Plant: St. Charles St., and B. & O. R. R.
Pres.—I. C. Emery
Sec.—L. J. Emery
PRODUCT—Small crucible steel castings
Capacity—1,000 tons annually

EMPIRE STEEL CO., Bessemer Ave and Penn. R. R., Cleveland, O.
Pres. and Treas.—A. W. Wheatley
Vice Pres. and Gen. Mgr.—Boyd B. Jack
Sec. and Asst. Treas.—J. E. Anderson
Pur. Agt.—Thos. E. Stocum
Gen. Supt.—Frank Huston
Chief Engr.—W. L. Howard
Chief Elec. Engr.—James Kaplan
Roll Designer—Edward Webb
Storekeeper—Frank Hogue

EMPIRE STEEL CASTING CO., Reading, Pa.
Pres.—R. A. Houck
Vice Pres. Opr.—A. R. Schmehl
Treas.—Fred G. Hodges, Jr.
Sec. and Asst. Treas.—K. R. Beidler
EQUIPMENT—Two-ton electric furnace
PRODUCTS—Carbon steel castings

EMPORIUM IRON CO., Broad and Second Sts., Emporium Pa.
Pres.—A. Brady
Vice Pres. and Asst. Sec.—E. E. Brady
Treas.—W. G. Bair
Asst. Treas., Sec. and Pur. Agt.—E. D. White
Supt. B. F.—J. C. Arkwright
M. M.—E. F. Brady
Chief Chemist—L. B. Patterson
PRODUCTS—Pig iron
Capacity—60,000 tons annually

ENTERPRISE FOUNDRY CO., 290 19th St., San Francisco, Cal.
Pres. and Gen. Mgr.—Charles J. P. Hoehn
Vice Pres. Opr., Treas. and Pur. Agt.—A. J. Martens
Sec.—James W. Heaney
Supt. Fdry., O. H. and Elec. Furnaces—H. Hoehn
Chief Engr.—Charles Lubcke
Met.—Wm. J. Mulcahy
Foreman—C. Edberg
PRODUCTS—Iron, brass, open hearth and electric steel castings

ERIE CITY IRON WORKS. 14th St. and East Ave., Erie, Pa.
Pres.—H. H. Clemens
Vice Pres. and Treas.—Edward C. Moore
Sec. and Gen. Mgr.—L. V. Reese
Pur. Agt.—N. M. Wallace
Sales Mgr.—H. W. Brooks
Supt.—C. D. St. Clair
Chief Engr.—G. W. Nigh
Draftsman—Eugene Brinig
Storekeeper—H. H. Smith
PRODUCTS—Water cooled furnaces, high pressure boilers of all sizes and type, fabricated steel, steel barges, gray iron castings, etc.

ERIE FORGE CO., Erie, Pa.
Pres. and Gen. Mgr.—R. F. Devine
Asst. to Pres.—R. F. Devine, Jr.
Vice Pres.—H. E. Fish
Treas. and Gen. Supt.—G. W. J. Stout
Sec.—H. C. McLaughlin
Pur. Agt.—J. F. Roehl
Asst. Gen. Supt.—K. E. Blair
Supt. O. H.—W. T. Kilgore
Machine Shop Supt.—J. Burger
Brick Supt.—Geo. Smith
Chief Engr.—Geo. B. Conrath
Chief Elec.—H. Simpson
M. M.—P. J. Hooper
Met.—E. C. Voorhees
Chief Chemist—N. Sanner
Safety Engr.—H. A. McDonald
Storekeeper—F. J Spaeder
PRODUCTS—Steel ingots, rough and finished forgings, steel castings

EVERETT-SAXTON CO., 1710 Franklin Trust Bldg., Philadelphia, Pa. Furnace at Everett, Pa.
Pres.—W. S. Pilling
Vice Pres.—Andrew S. Webb
Treas.—George P. Pilling
Sec.—J. Ross Pilling
Gen. Mgr.—Banks Hudson

(At Everett, Pa., Furnace)
Supt.—R. E. Harville
PRODUCT—Foundry and basic pig iron
Capacity—100,000 tons
Railroad—Penn., H. & B.

EVERETT STEEL CO., Everett, Wash.
Pres., Treas. and G. M.—F. R. Faller
Vice Pres.—T. B. Summer
Treas. and Sec.—F. E. Powell
PRODUCT—Rough steel castings
Capacity—1,000 tons per annum

EWALD IRON CO., 231 West Main St., Louisville, Ky.
Pres.—R. Baylor Hickman
Vice Pres. and Treas.—G. O. Boomer
Vice Pres.—S. E. Frazee
Gen. Supt.—John H. Romann
PRODUCTS—Staybolt iron, engine bolt iron

F

FAIR & SONS, INC., S., Hamilton and Madison Sts., Saginaw, Mich.

Pres., Gen. Mgr. and Pur. Agt.—Louis G. Fair
Vice Pres.—Ray T. Maynard
Sec. and Treas.—Ora R. Fowler
Asst. Sec.—A. M. Zoeller
Gen. Supt.—Dave Milbough
Asst. Gen. Supt.—Edward Blohm
M. M.—Geo. Moe
EQUIPMENT—Two electric steel melting furnaces
PRODUCTS—Steel castings
Capacity—3,500 tons annually
Capital—$75,000
Railroads—P. M., M. C., G. T. and M. Ry.

FAIR HAVEN FDRY. & MACHINE CO., INC., Fairhaven, Vt.
Pres.—E. T. Patterson
Vice Pres.—E. A. Tuttle
Treas. Sec. G. M. and Pur. Agt.—M. Patterson
Supt.—H. Crawley
PRODUCTS—Hoisting and Stone Working Machinery
Capital—$6,000.

FALCON STEEL CO., THE, Niles, O.
Pres. and Treas.—Lloyd Booth
Vice Pres.—Paul Wick
Sec.—Myron C. Wick, Jr.
Gen. Mgr.—W. W. Lewis
Gen. Sales Mgr.—W. T. Brangham
Pur. Agt.—E. L. McNamara
Chief Engr.—R. H. Grove
Elec. Engr.—E. Franks
EQUIPMENT—8 sheet mills with auxiliary equipment
PRODUCTS—Various grades of sheet steel
Capacity—80,000 tons annually

FALCON TIN PLATE CO., THE, Niles, O.
Pres. and Treas.—Lloyd Booth
Vice Pres., Sec. and G. M.—Paul Wick
Asst. Treas.—J. F. Buchman, Jr.
Pur. Agt.—E. L. McNamara

FALK CORP., THE, Foot 30th St., Milwaukee, Wis.
Pres.—Herman W. Falk
Vice Pres.—Otto H. Falk
Vice Pres. and Wks. Mgr.—Harold S. Falk
Sec. Treas.—Clarence R. Falk
Sales Mgr. and Asst. Sec.—Arthur Simonson
Comptroller—E. P. Connell
Pur. Agt.—T. I. Scanlan
Mgr. Commercial Sales—M. A. Carpenter
Supt. Machine Shop—Harry Green
Supt. Fdry.—Harry Mooney
Asst. Supt. Fdry.—F. A. Pritzloff
Chief and Mech. Engr.—Percy C. Day
Steam Engr.—H. J. Mistele
Safety Engr.—R. L. Wright
Chemist—F. J. Pendleton
Draftsman—Hyman Levine
EQUIPMENT—Three 25-ton acid O. H. furnaces and complete machine shop
PRODUCTS—Helical and Spur gears, speed reducers, Falk flexible couplings, Diesel oil engines, steel castings and contract machine work
Capacity—Steel foundry, 25,000 tons, machine shop, unlimited
Capital—$6,000,000
Railroads—C. M. & St. P., C. & W. W., Goodrich Transit, etc.

FALLS HOLLOW STAYBOLT CO., 21 E. Portage St., Cuyahoga Falls, O.
Pres.—C. M. Walsh
Pur. Agt.—H. I. Dyke
Gen. Supt.—James Hyde
Chief Engr.—E. J. Raub
PRODUCTS—Hollow and solid staybolts

FALLS TUBE & MFG. CO., Newton Falls, O.
Pres.—R. J. Kenworthy
Vice Pres. and Sec.—G. T. Filius
PRODUCTS—Gas welded specialty tubing ranging from ¾ to 3½ inches in diameter, made from strip steel 16 to 22 gauge

FARRAR & TREFTS INC., 67 Perry St., Buffalo, N. Y.
Pres.—Geo. M. Trefts
Vice Pres.—Frank J. Rentschler
Treas. and Gen. Mgr.—John C. Trefts
Sec.—Geo. M. Trefts, Jr.
Pur. Agt.—Wm. E. Schmidt
Sales Mgr. Fdry.—Ross W. Snoberger
Sales Mgr. Boilers—S. Mensonides
Supt. Boiler Shop—C. O. Logan
Supt. Fdry.—A. Rankin
PRODUCTS—Railroad Castings; Rolling Mill Guides.
Capital—$2,000,000; issued $600,000.
Railroads—N. Y. C. siding

FARREL-CHEEK STEEL FOUNDRY CO. Sandusky, O.
Pres. and Gen. Mgr.—Herbert Farrell
Vice Pres.—J. O. Cheek
Treas.—R. C Farrell
Sec. and Pur. Agt.—John F. Sweet
Gen. Supt.—T. A. Martin
M. M.—John Hengel
Elec. Engr.—J. A. Higgins
Supt. Labor—Daniel Hartung
Chemist—Carl W. Widenthaler
Capacity—6,000 tons steel castings annually
PRODUCTS—Steel castings for sale for electrical machinery, trucks, industrial railways, road machinery; also Farrell 585 special purpose, high tensil and wear resisting cast steel

FEDERAL STEEL FOUNDRY CO., Foot of Reaney St., Chester, Pa.
Pres.—H. Birchard Taylor
Vice Pres. Sales—Wm. D. Ward
Treas and Sec.—Wm. V. Compton
Asst. Sec.—Herbert Cramp
Pur. Agt.—Wm. H. Mick
Gen. Mgr.—Alfred G. Rennie
Gen. Supt.—James G. Mitchell
Elec. and Steam Engr. and M. M.—James B. Taylor
Chemist—Walter F. Martin
Storekeeper—John Gibson
EQUIPMENT—Two 30-ton open hearth furnaces

PRODUCTS—Open hearth steel castings
Capacity—7,500 tons annually
Capital—$462,000
Railroads—Reading & Penna., and Water Front

FIRTH-STERLING STEEL CO., McKeesport, Pa.
Pres.—Lewis J. Firth
Vice Pres.—Eben B. Clarke
Treas.—D. E. Jackman
Sec.—E. D. Gray
Director of Research—Gregory J. Comstock
Director of Sales—Donald G. Clark
Gen. Mgr.—L. Gerald Firth
Wks. Mgr.—R. S. Stevick
M. M.—Wm. J. Schultz
Met.—Owen K. Parmiter
PRODUCTS—Fine tool and die steels

FITZSIMMONS CO., THE, 1631 Wilson Ave., Youngstown, O.
Pres.—Archil Loyer
Vice Pres. and Gen. Mgr.—R. E. Fitzsimons
Sec. and Treas.—Jos. P. Wintrich
Gen. Supt.—E. L. Watson
M. M.—Charles V. Johnson
PRODUCTS—Cold drawn steel
Capacity—24,000 tons
Capital—$250,000
Railroads—Erie, N. Y. C., B. & O., Penna.

FLOGG & CO., STANLEY G., 1421 Chestnut St., Philadelphia, Pa.
PRODUCT—Steel castings

FLORIDA MACHINE & FDRY. CO., Jacksonville, Fla.
Pres.—F. G. Russell
Vice Pres. and Treas.—F. G. Russell, Jr.
Sec.—O. M. Smith
PRODUCTS—Steel and gray iron castings, machining
Incorporated—$500,000

FOLEY STEEL CO., Slatington, Pa.
Lessee—Robert Grant

FOLLANSBEE BROS. CO., Third and Liberty Ave., Pittsburgh, Pa. Plants: Follansbee, W. Va., and Toronto, O.
Chairman—Wm. U. Follansbee
Pres.—John Follansbee
Asst. to Pres. and Gen. Mgr. Sales—Charles A. Wilson
Vice Pres. and Treas.—R. C. Kirk
Vice Pres.—B. G. Folansbee
Sec. and Auditor—Wm. D. Reid
Gen. Mgr.—A. J. McFarland
Mgr. Jobbing Dept.—D. S. Gaston
Mgr. Mill Service—R. B. Perry
Sales Mgr. Tin Mill Pro.—J. C. Kilroy
Sales Mgr. Sheet Steel—Geo. R. Kerr

(At Follansbee, W. Va., Plant)

Gen. Supt.—W. H. Lake
Supt. O. H.—Samuel Davis
Night Supt.—Ward Secrist
Chief Engr.—C. W. Kinter
Chief Elec. Engr.—Benjamin Coombe
Mech. Engr.—Frank McGough
Steam Engr.—Edward Smith
Field Engr.—Charles Manion
Safety Engr.—George Hubbs
M. M.—George Z. Smith
Met.—E. M. Freeland
Chief Chemist—R. E. Reno
Foremen Roll Mill—Sidney Lake, Jenkin Jones and E. M. Dunlevy
Foreman Machinist—Richard Graham
Roll Designer—Norman Walker
Storekeeper—Jesse Spitznogle
Chief Clerk—Alex Smith
Office Mgr.—A. W. May

(At Toronto, O., Plant)

Gen. Supt.—Gilbert Follansbee
Supt.—James Banfield
Supt. O. H.—T. J. Costello
Supt. Fininshing Mill—Walter G. Banfield
Supt. Annealing—Milard Boyd
Supt. Mines—John Ferguson
Brick Supt.—Thos. Dugan
Chief Engr.—C. W. Kinter
Chief Elec. Engr.—J. S. Murray
Steam Engr.—E. F. McManus
Field Engr.—J. E. Parker
M. M.—Howard Miner
Met.—E. M. Freeland
Chief Chemist—E. G. Burns
Safety Sec.—C. A. Wells
Draftsman—G. W. Day
Foreman Machinist—Duncan Grant
Chief Insp.—Philip Voss
Chief Clerk—E. W. Russell
Roll Designer—Wm. Williams
Storekeeper—C. L. Shultz

FORD MOTOR COMPANY, Highland Park, Detroit, Mich. Blast furnace at Fordson, Mich.; P. O., Dearborn, Mich.
Pres. and Treas.—Edsel B. Ford
1st Vice Pres.—P. F Martin
2nd Vice Pres.—E. C. Kanzler
Sec.—B. J. Craig
Pur. Agt.—F. H. Diehl

(Fordson Plant, Blast Furnace, Miller Road at Dix Ave., Fordson, Mich. P. O. Dearborn, Mich.)
Gen. Supt.—C. E. Sorensen
Supt. B. F.—D. D. Newkirk
Lab.—R. H. McCarroll
Supt. O. H. and R. M.—J. J. Findlater
EQUIPMENT—Two 500-ton blast furnaces (Kennedy design), also 150-ton and two 10-ton Greaves-Etchell electric furnaces, 7 100-ton O H. furnaces, blooming mill and 14-inch merchant mill; 12-inch spring, 10-inch rod and strip mill. 18-inch sheet bar mill
Capacity—35,000 tons of steel per month
Railroads—Fordson docks on Rouge river where company lake boats unload, etc. D. T. & I., M. C., P. M., Penna., Wabash, Det. Term., Union Belt

FORT DODGE CULVERT & IRON MILLS, Fort Dodge, Iowa.
Pres. and Gen. Mgr.—C. L. Carter
Vice Pres.—C. E. Kitchen, East Chicago, Ind.
Treas. and Sec.—C. W. Gadd

Pur. Agt.—W. G. Warner
Gen. Supt.—E. C. Matthews
M. M.—Leo Clawson
PRODUCTS—Steel ingots
Capacity—12,000 tons per year
Capital—800,000; issued, $357,250; bonds issued, $92,600

FORT PITT BRIDGE CO., Oliver Bldg., Pittsburgh, Pa. Plant: Canonsburg, Pa.
Chairman—G. C. Dellenbach
Pres.—Theo. A. Straub
Vice Pres.—H. R. Blickle
Treas. and Sec.—P. B. Straub
Pur. Agt.—A. J. Bodenham
Supt.—Wm. Berger
Chief Engr.—A. Sheldon
Draftsman—O. C. George
PRODUCTS—Gray iron castings, bridges, buildings, etc.
Capacity—50,000 tons annually

FORT PITT SPRING & MFG. CC., McKees Rocks, Pa.
Pres.—Wm. McBride
Treas. and Sec.—R. L. Leitch
Gen. Mgr.—Harry S. Crary
Gen. Supt.—Henry Miller
Asst. Supt.—Albert Schaeffer
Chief Engr.—Dawes W. Molyneaux
Designing Engr.—D. S. Molyneaux
PRODUCTS—Coil and elliptic springs for railroads and electric railway service
Capacity—1,200 tons per annum

FORT PITT STEEL CASTING CO., 25th Ave., McKeesport. Pa.
Pres. and Gen. Mgr.—C. S. Koch
Sec. and Sales Mgr.—H. J. Koch
Treas.—Albert Curry
Asst. Treas.—C. H. Curry
Pur. Agt.—H. H. Nicholson
Works Mgr.—J. W. Guay
Gen. Supt.—H. F. Stratton
Mech. Engr.—R. J. Bryan
Storekeeper—F. C. Ackerberg
EQUIPMENT—One 5-ton electric furnace
PRODUCTS—Electric steel castings
Capacity—4,000 tons
Capital—$500,000
Railroads—Penna., B. & O., N. Y. C.

FORT WAYNE ROLLING MILL CORP., Fort Wayne, Ind.
Pres.—E. E. Yarnelle
Vice Pres., Treas. and G. M.—H. C. Rockhill
Sec.—Ira W. Langford
Gen. Supt.—John S. Baldwin
Supt. Roll Mill—Harry Beerman
M. M.—Samuel P. Thompson
Roll Designer—Clem Cope
EQUIPMENT—One 3-high 20-inch muck mill, one 9-inch guide mill, one 8-inch guide mill, one 18-inch bar mill
PRODUCTS—Iron and steel bars, bands, steel re-inforcing bars, steel fence angles, shapes, steel crescents and small tees
Capital—$400,000; issued, $375,700

FOSTER WHEELER CORP., 165 Broadway, New York, N. Y. Plants: Danville, N. Y. and Carteret, N. J.
Chairman—J. J. Brown
Pres.—L. B. Nutting
Vice Pres.—John Primrose
Vice Pres.—H. S. Brown
Treas.—T. G. Hoffman
Sec. and Gen. Mgr.—D. McCulloch
Pur. Agt.—P. J. Sheridan
Sales Mgr.—R. H. Wyld
Supt.—C. Reigart
Chief Engr.—W. F. Keenan
EQUIPMENT—Air Heaters, Condensers, Cooling Towers, Economizers, Evaporators, Feed Water Heaters, Fractionating Towers, Heat Exchangers, Pulverized Coal Equipment, Pumps, Superheaters, Tubular Oil Stills, Water Cooled Furnaces.
PRODUCTS—Power Plant Equipment.

FRANKLIN STEEL WORKS, Franklin, Pa.
Pres.—E. B. Leigh
Vice Pres.—A. C. Moore
Vice Pres.—Edward E. Hughes
Treas.-Sec.—E. T. Walker
Gen. Mgr.—C. F. Mackey
PRODUCTS—Plain, twisted and deformed bars for concrete reinforcement

FRASSE & CO., PETER A., 135 Walnut St., Hartford, Conn.
Gen. Mgr.—E. H. Bohnet
Asst. Gen. Mgr.—J. D. Drummond
EQUIPMENT—Complete warehouse
PRODUCTS—Bar steel
Capacity—1,000 tons
Railroads—N. H. R. R. Siding

FROG, SWITCH & MFG. CO., Carlisle, Pa.
Chairman of Board and G. M.—R. S. Hays
Pres. and Mgr. Frog and Switch Dept.—W. H. Dotter
1st Vice Pres. and Mgr. Manganese Steel Dept.—Wm. L. Jackson
2nd Vice Pres. and Engr. of Sales—L. E. Weidman
3rd Vice Pres. and Sales Mgr.—A. G. Jones
Treas. and Sec.—Charles C. Weidner
Asst. Treas.—L. G. Martin
PRODUCTS—Manganese steel castings for own use and for sale, gray iron castings, etc.
Capacity—2,500 tons converter steel castings annually

FRONTIER IRON WORKS, 36 Letchworth St., Buffalo, N. Y.
Pres.—Wm. A. Griffin
Vice Pres.—Edmund B. McKenna
Treas.—C. R. Wyckoff
Asst. Treas.—W. A. Fisher
Sec.—L. F. Gilbert
Gen. Supt.—Geo. Bowers
PRODUCTS—Gray iron foundry, automotive and special castings
Capital—$130,000
Railroads—N. Y. C.

G

GALESBURG COULTER-DISC CO., Galesburg, Ill.
Pres. and Treas.—S. A. Ingersoll
Vice Pres. and Gen. Mgr.—R. C. Ingersoll
Sec.—H. A. Nelson
Supt.—H. C. Gaylord
Asst. Gen. Supt.—A. Peterson
PRODUCTS—Agricultural, tractor and automobile steel parts; disc harrow blades, Rolling—Coulter blades and pressed steel parts

GARY TUBE CO., Gary Ind. Subsidiary of National Tube Co., Pittsburgh, Pa.
Gen. Mgr.—F. W. Waterman
Supt. Pipe Mill—William Bark
Chief Mech. and Steam Engr.—G. E. Sperling
Supt. Elec.—E. L. Upp
M. M.—D. L. Hutton
Safety Engr.—Harry Fawcett
Chief Clerk—George A. Passmore
Supt. Skelp and Pipe Mills—Thomas Patterson
Asst. Supt. Pipe Mills—Wm. H. Johnson
Supt. Skelp Mills—F. W. Waterman, Jr.
Chief Mech. Engr.—G. E. Sperling
Pipe Mill Engr.—J. V. Mazurie

GENERAL ELECTRIC CO., Schenectady, N. Y.
Honorary Chairman of Board—E. W. Rice
Chairman of the Board—O. D. Young, New York
Pres.—Gerald Swope, New York
Vice Pres.—C. W. Appleton
Vice Pres.—W. R. Burrows
Vice Pres.—C. C. Chesney
Vice Pres.—C. E. Evelith
Vice Pres.—E. W. Allen
Vice Pres.—G. P. Baldwin
Vice Pres.—J. G. Barry
Vice Pres.—Albert G. Davis
Vice Pres.—A. H. Jackson
Vice Pres.—J. R. Lovejoy
Vice Pres.—Geo. F. Morrison
Vice Pres.—C. E. Patterson
Sec.—M. F. Westover
Treas.—R. S. Murray
Asst. Treas.—D. C. Davis and C. L. Kenyon
Asst. Sec.—Wm. M. Trench, J. F. Zoller, Stuart M. Crecker and J. W. Lewis, N. Y.
Comptroller—S. L. Whitestone
Gen. Auditor—I. D. LeFevre
Asst. Gen. Auditors—John Riley, F. H. Corregan, L. B. VanDyck
Pur. Agt.—L. G. Banker
Gen. Supt.—James H. Smith
Asst. Gen. Supt.—B. G. Tang
Works Mgr.—B. L. Delack
Mech. Engr.—E. W. Allen
PRODUCTS—Manufacturing and sale of electrical apparatus
Capital and Surplus—As of Dec. 31, 1926, $326,340,029.41

(At West Lynn, Mass., Plant)
Works Mgr.—F. P. Cox
Gen. Supt.—N. M. Duchemin
Supt. Elec.—J. C. MacLean
Mech. Engr.—J. F. Woodman
M. M.—J. Dennis
Elec. Engr.—W. H. Pratt
Steam Engr.—J. L. Clifford
Met. and Chemist—J. M. Drake (River Works)
Storekeeper—J. H. Fenner
PRODUCTS—Electrical products and Tungar rectifiers
Railroad—B. & M.

GENERAL STEEL CASTING & MACHINE CO., 8 Lister Ave., Newark, N. J.
Pres.—Garfield Kilpatrick
PRODUCTS—Steel castings

GERLINGER ELECTRIC STEEL CASTING CO., 60th St. and National Ave., Milwaukee, Wis.
Pres. and Gen. Mgr.—W. E. Gerlinger
Vice Pres. and Treas.—George P. Gerlinger
Sec.—Henry S. Wright
Asst. Sec.—J. S. Couillard
Pur. Agt.—O. A. Meyer
Sales Mgr.—D. E. Deuster
Works Mgr—Glen C. Riegel
Gen. Supt.—A. M. Weis
M. M. and Foreman Machinist—George Petersdorf
Met.—M. L. Frey
Chemist—Prescott Jensen
PRODUCTS—Carbon steel castings and "Hard-Wear" (special alloy steel) castings
Capacity—5,000 tons annually

GLASGOW IRON CO., Pottstown, Pa.
Pres. and Gen. Mgr.—Comly B. Shoemaker, II
Vice Pres.—A. B. Murray
Treas.—A. Coleman Smith
Sec.—Harry W. Prizer
Sales Mgr.—D. Sherman Guss
Supt.—Wm. S. Whitacre
Engr. of Tests—Milton Eshbach
Foreman Machine Shop—Charles Miller
Draftsman—Elmer E. Ehrgood
EQUIPMENT—Sheared mill, universal mill, puddle mills, flanging dept.
PRODUCTS—Sheared and universal rolled plates in wrought iron and steel; many varieties of flanged, pressed and formed products; muck bar
Capacity—125,000 tons annually
Capital—$500,000; issued, $360,000
Railroads—Reading and Penna.

GLOBE FORGE & FOUNDRIES, INC., 101 Greenway Ave., Syracuse, N. Y.
Pres.—Alex. T. Brown
Vice Pres.—Wm. S. Farmer
Treas.—W. C. Lipe
Sec. and Asst. Treas.—D. E. Hetherington
Gen. Mgr.—Edward R. Bishop
Pur. Agt.—S. M. Carroll
Supt. Forge—H. M. Rogers
Chief Engr.—J. C. Buchanan
Supt. Fdry.—R. D. Glass
Safety—H. J Welsh

Storekeeper—C. J. Donath
PRODUCTS—Drop forgings and grey iron castings
Railroads—N. Y. C. & D. L. & W. R. R.

GLOBE IRON CO., Jackson, O.
Pres. and Gen. Mgr.—John E. Jones
Pur. Agt., Treas. and Asst. G. M.—Edwin A. Jones
Sec.—Charles P. Chapman
Supt. B. F.—Geo. F. Bertsch
Chief and Steam Engr.—W. J. Lamb
Asst. Chief Engr.—James Swift
Elec. Engr.—Charles Evans
M. M.—Albert Dobbins
Met. and Chem.—Edwin Morgan
Storekeeper—L. T. Long
PRODUCTS—High silicon silveries and Bessemer ferro silicons
Capacity—50,000 tons high silicon, 100,000 tons foundry
Capital—$1,200,000
Railroads—B. & O., H. V. and D. T. & I.

GLOBE STEEL TUBES CO., 1345 Burnham, St., Milwaukee, Wis.
Chairman—Paul J. Kalman
Pres.—F. J. O'Brien
Vice Pres. and Gen. Mgr. of Sales—J. W. Floto
Treas. and Sec.—Geo. O. Ross
Asst. Sec.—H. W. Lillengren
Pur. Agt.—Albert Korsan
Sales Engr.—J. S. Bradshaw
Gen. Supt.—K. A. Nygren
Supt.—G. W. Walzer
Elec. Engr.—A. Krumhaus
Chief Chemist—G. W. Duemling
Draftsman—Emil Wrage
Foreman Machinist—Leonard Radmer
Safety—Gene Oman
Roll Designer—P. A. Foren
Storekeeper—E. R. Gilke
EQUIPMENT—Tube rolling mills, cold drawing benches, annealing furnaces
PRODUCTS—Seamless steel tubes, hot rolled and cold drawn
Capacity—42,000 tons annually
Capital—$3,000,000
Railroads—C. M. & St. P.; C. & N. W.; G. T.; Pere Marquette Soo Line

GLOVER MACHINE WORKS, P. O. Box 85, Marietta, Ga.
Pres.—J. W. Glover
Vice Pres. (inactive)—S. D. Rambo
Treas.—G. V. Welch
P. A.—G. W. Watkins
Sec.—J. B. Glover
Supt. Steel Fdry.—J. J. Lally
M. M.—E. A. Williams
Draftsman—A. G. Edmonds

GOSHEN FURNACE CO., 52 Vanderbilt Ave., New York, N. Y. Furnace at Goshen, Va.
Pres.—Geo. W. Tweed, Duluth
Treas.—A. Arthur Tutein, Boston, Mass.
Sec.—Dexter A. Tutein
Gen. Supt.—E. M. Hull, at Goshen, Va.
(Furnace out of blast)
PRODUCTS—Pig iron

GOULD COUPLER CO., Depew, N. Y.
Chairman—Donald Symington
Pres.—C. J. Symington
Asst. to Pres.—W. S. Symington
Vice Pres. Opr.—D. M. Scott
Vice Pres. Sales—G. L. L. Davis
Vice Pres. Engr.—D. S. Barrows
Treas.—P. P. Meade
Asst. Treas.—A. H. Gardner
Pur. Agt.—A. R. McHenry
Gen. Supt.—C. H. Shaffer
Asst. Gen. Supt.—M. J. O'Brien
M. M.—T. O'Hara
EQUIPMENT—Steel foundry
PRODUCTS—Railroad coupler, truck frames, bolsters, freight and passenger car castings
Capacity—72,000 tons steel castings

GREAT NORTHERN RY. CO., Rolling Mill, St. Cloud, Minn.
Pur. Agt.—F. A. Bushnell, at St. Paul, Minn.
Gen. Supt. M. P.—W. Kelly, at St. Paul, Minn.
Supt. Shops—F. C. Lindt, St. Cloud, Minn.
PRODUCT—Merchant bars for own use

GREENE STEEL CASTINGS CO., 1302 Second St., Berkeley, Cal.

GRIFFIN MANUFACTURING CO., Erie, Pa.
Pres.—J. C. Griffin
Vice Pres.—J. B. Griffin
Treas.—W. A. Crawford
Sec.—W. L. Crawford
EQUIPMENT—19 cold rolling mills
PRODUCTS—Cold rolled strip steel, hardware
Capacity—30,000 tons annually

GULF STATES STEEL CO., Brown Marx Bldg., Birmingham, Ala. Plant: Alabama City, Ala.
Chairman—James Bowron
1st Vice Pres.—H. Sanborn Smith
Vice Pres. and Treas.—A. R. Forsyth
Vice Pres. and G. M.—L. F. Geohegan
Sec. and Auditor—P. R. Owens
Asst. Treas.—C. V. Orr
Pur. Agt.—B. F. Tyler
Gen. Sales Agt.—C. C. Brown
Traffic Mgr.—H. H. Knight
Chief Engr.—C. E. Bowron

(At Alabama City, Ala., Works)
Asst. Gen. Mgr.—F. R. Thompson
Asst. Works Mgr.—J. N. Jones
Supt. By-Prod. Coke Plant—E. C. Plank
Supt. B. F.—M. E. Morgan
Supt. O. H.—M. R. Shannon
Supt. Rod Mill—J. H. Landers
Supt. Wire Mill—Joe Cusick
Plant Mgr.—H. T. Watts
Elec. Engr.—W. B. Connally
Steam Engr.—Thomas Dowling
M. M.—G. H. Davis
Chemist—S. F. Anders
Roll Designer—F. J. Gildon
EQUIPMENT—By-product coke, blast furnace, open hearth furnace, steel and wire mill

PRODUCTS—Pig iron, by-product coke, ingots, blooms, billets, bars and wire goods
Capacity—300,000 tons per year
Capital—$15,500,000; issued, $14,500,000
Railroads—L. & N.; Southern, A. G. S., N. C. & St. L., T. A. G.

H

HALCOMB STEEL CO., 17 E. 42nd St., New York. Plant: Syracuse, N. Y.
Chairman—H. S. Wilkinson
Pres.—F. B. Hufnagel
Vice Pres.—A. F. Galbraith
Treas.—Geo. E. Shaw
Asst. Treas.—F. W. Barnes
Sec.—E. R. Mackensie
Pur. Agt.—R. H. Filsinger
Gen. Mgr.—H. A. Pardee
Asst. Mgr.—H. J. Stagg

(At Syracuse, N. Y. P. O. Box 4)

Asst. Supt.—J. C. Corey
Supt. Elec. Furnaces—R. T. Reade
Elec. Engr.—E. F. Gibbons
M. M. and Steam Engr.—H. F. Williams
Met.—S. C. Spalding
Chemist—G. W. Berry
PRODUCTS—Tool and alloy steels

HAMILTON FURNACE CO., 1401 Alworth Bldg., Duluth, Minn. Furnace at Hamilton, O.
Pres.—John A. Savage
Vice Pres. and Gen. Mgr.—Joseph F. Savage
Treas.—A. S. Trux
Sec.—H. S. Munro
Capital—50,000 shares no par value

(At Hamilton, O., Furnace)

Gen. Mgr. and Chief Engr.—R. W. Stuck
Pur. Agt.—C. A. Henneberger
Supt. B. F.—A. E. Gillespie
M. M.—E. E. Miller
Chemist—Paul Gingerich
Foreman B. F.—Joseph Alderdice
PRODUCTS—Pig iron
Capacity—175,000 tons
Railroads—B. & O., Penn., C. I. W., and Erie

HANGING ROCK IRON CO., Carew Bldg., Cincinnati, O. Furnace: Hanging Rock, O.
Pres.—D. B. Meacham
Vice Pres.—J. K. Pollock
Sec.—H. E. Turner
Company liquidating

(At Hanging Rock, O., Furnace)

Furnace idle

HANNA FURNACE CO., Leader Bldg., Cleveland, O. Furnaces: Detroit, Mich.; Leetonia and Dover, O.; West Middlesex, Pa.; Buffalo, N. Y.
Chairman—F. B. Richards
Pres.—C. A. Collins
Vice Pres.—W. G. Sharp
Vice Pres.—R. F. McMahon
Vice Pres.—G. M. Humphrey
Treas. and Sec.—C. N. Osborne
Asst. Treas.—S. W. Folsom and C. W. Brown
Asst. Sec.—W. C. Scott
Capital—Preferred, $750,000; common, $15,000,000; authorized, $9,895,000

(At Detroit, Mich., Furnace)

Mgr.—P. J. Moran
Asst. Supt. B. F.—L. Zanini
Chief Engr.—W. T. Clark
M. M.—O. G. Dalzell
Chief Chemist—W. G. Zaft
Safety Insp.—W. T. Heck
Storekeeper—L. Fitzpatrick
EQUIPMENT—Two furnaces
PRODUCT—Pig iron
Railroads—M. C., D. T. & I., Delray connecting. Dock for unloading ore

(At Buffalo, N. Y., Furnace)

Gen. Mgr.—B. W. Marrow
Asst. Gen. Mgr.—V. W. Aubel
Gen. Supt.—John J. Sammon
Mech. Engr.—John B. Fitzgibbon
M. M.—Edmund J. McCarthy
Steam Engr.—Arthur L. Mays
Chief Chemist—Schuyler C. McAlpine
Safety Engr.—Andrew Daly
Storekeeper—Arthur L. Higgon
PRODUCT—Pig iron
Capacity—350,000 tons
Railroads—N. Y. C., Erie, direct connections

(At Leetonia, O., Furnace)

Supt. B. F.—E. J. Dean
Chief Engr.—F. W. Mossman
M. M.—P. Hannahan
Chief Chemist—H. D. Schaffer
EQUPMENT—One furnace, bee-hive coke ovens
PRODUCTS—Pig iron, coke
Capacity—425 tons pig iron per day
Railroads—Penn., Erie

(At Dover, O., Furnace)

Supt.—E. Bowman
Asst. Supt.—E. Halligan
Mech. Engr.—W. T. Clark
M. M.—Wm. Blottman
Chemist—Leo Poster

(At West Middlesex, Pa., Furnace)

Gen. Supt.—A. A. Sheets
M. M.—C. A. McClun
Chemist—D. H. Schaffer

HARNISCHFEGER CORP., 38th and National Aves., Milwaukee, Wis.
Pres.—Henry Harnischfeger
Vice Pres.—A. G. Henricks
Vice Pres.—Walter Harnischfeger
Vice Pres.—E. Standfuss
Treas. and Sec.—R. Von Schleinitz
Asst. Sec. and Asst. Treas.—R. Binkowski
Pur. Agt.—F. H. Gavigan
Works Mgr.—H. H. Erkelenz
Asst. Work Mgr.—G. M. Harry
Gen. Supt.—D. Caeser

Asst. Gen. Supt.—Joseph Harnischfeger
Supt. Heat Treating—Charles Hartson
Chief Engrs.—W. A. Young and H. Mitchell
Elec. Engrs.—G. J. Lexa and F. F. Heiser
Mech. Engr. and M. M.—H. Haehle
Steam Engr.—Chas. Dick
Met.—J. R. Houston
Foreman Machinist—Wm. Barden
Chief Draftsman—A. Rausch
Storekeeper—Geo. Buckman
EQUIPMENT—13 acres of buildings including a modern assembly floor, pattern shop, steel and grey iron foundries, structural forge shop, heat treating chemical laboratory, electric controller and motor manufacturing department
PRODUCTS—Electric cranes, hoists, gasoline and Diesel driven excavators
Capacity—2,000 tons per month
Capital—$6,000,000; issued, $5,000,000
Railroads—C. M. & St. P. and C. & N. W.

HARRISBURG PIPE & PIPE BENDING CO., 10th and Herr Sts., Harrisburg, Pa.
Pres.—C. W. Lynch
Vice Pres.—E. C. Smith
Treas. and Gen. Mgr.—E. C. Frey
Sec. and Pur. Agt.—N. W. Cassel
Gen. Mgr. Sales—H. W. Bishop, Jr.
Gen. Supt.—F. D. Andrews
Supt. O. H.—H. K. Rigdon
Supt. Drop Forge Dept.—H. B. Liggett (temporary)
Supt. Coil Dept.—C. Linford Scott
Supt. Coupling Dept.—J. F. Clark
Chief Engr.—Jens Clausen
Chief Elec. and Safety Engr.—Harry Miller
Elec. Engr.—E. C. Smith
Millwright—George Heberlig
M. M.—J. Fred Bowers
Met. and Chemist—A. Floyd Whalen
Chief Draftsman—Fred J. Yestadt
Storekeeper—Ralph A. Sites
Fuel—Gas and Coal
Steel Mill—Three 40-ton open hearth furnaces; 8 mechanical gas producers; 8 electrical cranes
Type and No. of Mills—One 2-high reversing 32-inch bloom and slabbing mill; one 26-inch 3-high universal, 4-inch to 18-inch width, 20-inch rolls; one 5-stand 10-inch guide mill
PRODUCTS—Basic open hearth steel billets and slabs, carbon and alloy universal plates, strip steel, bars, carbon and alloy in rounds, squares and flats, skelp, forged seamless steel pipe couplings, seamless cylinders and specialties; pipe coils, drop forgings, small angles, furring channel and bands
Capacity—70,000 to 80,000 tons annually
Power Plant—3,000 hp.
Railroad—Penna.

HARROW SPRING CO., Kalamazoo, Mich., East Vine St. Subsidiary of Youngstown Sheet & Tube Co., Youngstown, O.
Gen. Supt.—W. T. Lory
Supt. Spring Shop—F. H. Kingsley
M. M.—C. H. Fricke
PRODUCTS—Steel springs and farming implement parts
Capital—$600,000; issued, $560,050
Railroads—N. Y. C., Penn., and M. C.

HARTER ROLLED METALS CO., Goshen, Ind.
Pres.—E. C. Harter
Vice Pres. Sales—E. C. Crow
Treas.—M. E. Crow
Sec.—V. G. Cawley
Gen. Supt.—R. Laidlaw
Chief Engr.—John Cauffiel
PRODUCTS—Steel tubing, steel mouldings
Capacity—10,000,000 feet
Capital—$75,000; issued, $58,000
Railroads—N. Y. C., Big 4

HASKEL-BARKER CAR CO., Michigan City, Ind.
PRODUCTS—Steel castings for own use

HAZARD MANUFACTURING CO., 81 E. Ross St., Wilkes-Barre, Pa.
Pres.—W. H. Conyngham
Sec. Treas.—A. C. Overpeck
Asst. Treas.—H. J. Steinhauer
Pur. Agt.—Rys E. Miles
Gen. Mgr.—Lawrence W. Bevan
Gen. Supt.—Eli Weyhenmeyer
Asst. Gen. Supt.—F. J. Deemer
Chief Engr.—G. E. Pragnell
Chemist—Thos. W. Gangloff
PRODUCTS—Wire rope and insulated wires and cables
Power Plant—Steam and electric; 1,000 hp.
Railroads—Penna., Three Sidings, C. R. R. of N. J.
Capital—$2,000,000

HELGERSON FOUNDRY CO., 1148 Main St., Green Bay, Wis.
Pres.—F. A. Meyer
Vice Pres. and Gen. Supt.—A. Helgerson
Treas. and Gen. Mgr.—A. L. Cannard
Sec.—Normah Helgerson
EQUIPMENT—Bessemer converter, one ton
PRODUCTS—Steel castings
Capital—1,525 common; issued, 768½; 250 shares pref.; issued, 150 shares
Railroads—Three, boat and truck lines

HELLER BROS. CO., 865 Mt. Prospect Ave., Newark, N. J.
Pres.—Paul E. Heller
Vice Pres. and Sec.—Frank H. Stout
Treas.—Ernest A. Geoffroy
Asst. Sec. and Asst. Treas.—E. E. Clark
Pur. Agt.—Arthur C. Heller
Supt. Steel Plant—Edward J. Davis
EQUIPMENT—Power plant, steam; 1,000 hp. steel mill, gas producers for 30-pot crucible furnaces, one 16-inch, one 10-inch train of rolls, 5 steam hammers
PRODUCTS—Crucible steel, files, merchant bars, tools, etc.

HEMPFIELD FOUNDRIES CO., 43rd St. and A. V. R. R., Pittsburgh, Pa. Plant: Greensburg, Pa.
Pres.—H. H. Meixner
Vice Pres. and Pur. Agt.—Karl F. Tiegal
Treas.—Charles R. Rall
Sec.—R. L. Brinkley
Chief Elec.—Charles Pringle
Safety Engr.—F. George Woodward
M. M. and Form. Mach. Shop—Nick DeLoretta
Foreman Fdry.—Louis C. Steiner
Foreman Pattern Shop—George Bauer
EQUIPMENT—One 72-inch cupola, one 36-inch cupola
PRODUCTS—Iron, semi-steel castings, pipe fittings, valves, car wheels, sheaves, frogs, switches and general jobbing
Capacity—600 tons per month
Capital—$250,000
Railroads—Penna.

HENDERSON IRON WORKS & SUPPLY CO., W. K., THE, Shreveport, La.
Pres.—W. K. Henderson
Asst. to Pres. and P. A.—W. P. Leonard
Vice Pres.—W. P. Fort
Vice Pres.—E. B. Redline
Sec.—A. P. Boazman
Treas.—J. C. Henderson
Gen. Supt.—E. R. Thompson
M. M.—A. Meller
PRODUCTS—Oil field equipment, saw mill machinery, steel and grey iron castings
Capital—$1,000,000

HENDY IRON WORKS, JOSHUA, 200 Pine St., San Francisco, Cal. Plant: Sunnyvale, Santa Clara Co., Cal.
Pres. and Gen. Mgr.—F. J. Behneman
Vice Pres. and Asst. Gen. Mgr.—Morris Levit
Treas.—A. L. Behneman
Sec.—Chas. C. Gardner
Pur. Agt.—E. M. Hyland
Supt.—H. S. Rexworthy
Chief Engr.—Chester B. McAulay
Foreman Mach.—Edward Meinecke
Foreman Fdry.—John Hedley
Foreman Pattern Shop—David Johnson
Storekeeper—James Watson
EQUIPMENT—Gray Iron Foundry, Machine Shop, Forge and Boiler Shop, Structural Shop.
PRODUCTS—Mining and Ore Milling Machinery, Water Power Plant Equipment.
Capital—$600,000.
Railroads—Southern Pac., Western Pac., Santa Fe.

HERCULES MANUFACTURING CO., Centerville, Ia.
Pres., Treas. and G. M.—B. A. Fuller
Vice Pres.—Miles Bateman
Sec.—C. D. Cook
Supt.—O. B. Caylor
Chief Engr. and Draftsman—B. A. Fuller, Jr.
Foreman Machine Shop—G. L. Linden
Gen. Foreman—J. W. Campbell
PRODUCTS—Steel castings and coal mine equipment

HIGHLAND IRON & STEEL CO., THE. Terre Haute, Ind. Plant: West Pullman, Ill.
Pres.—W. B. Lashar
Vice Pres.—W. T. Morris
Vice Pres.—W. C. Ely
Treas.—W. F. Wheeler
Sec.—N. B. Marple
Pur. Agt.—R. R. Schoonover
Plant Mgr.—J. B. Schlossberg
Production Supt.—Wm. Dean, Jr.
Mech. Supt.—J. W. Shideler

(West Pullman, Ill., Works)

Supt.—J. K. Mowry
EQUIPMENT—One 10-inch guide mill, one 18-inch bar mill, one 20-inch puddle mill
PRODUCTS—Iron and steel bars and shapes
Railroads—C. R. I. & P. Station, Burr Oak, Ill.
PRODUCTS—Iron and steel bars and shapes
Railroads—P. C., C. & St. L. R. R. switching connections all lines

HUBBARD & CO., 6301 Butler St., Pittsburgh, Pa.
Pres.—John W. Hubbard
Vice Pres.—W. H. Remmel
Vice Pres.—C. L. Pierce, Jr.
Treas. and Sec.—W. J. Price
Pur. Agt.—Frank Glasser, Jr.
Chief Engr.—R. M. Kerschner
Safety Engr.—Harold Diehl
PRODUCTS—Shovels, railroad tools and electrical pole line hardware
Capital—$500,000

HUBBARD STEEL FOUNDRY CO., 144th St. and Railroad Ave., East Chicago, Ind.
Pres.—Albert Pack
Vice Pres. and Gen. Mgr.—J. T. Osler
Treas.—C. C. Upham
Sec.—G. T. Flynn
Asst. Treas. and Pur. Agt.—Harold F. Fiegenschuh
Works Mgr.—R. W. Freeland
Gen. Supt.—M. G. Sternberg
Mr. Roll Dept.—Wm. H. Seaman
Supt. No. 1 Fdry.—J. W. Johnson
Supt. No. 2 Fdry.—James Holtzapple
Supt. No. 3 Fdry.—Wm. Cadman
Chief Engr.—James Thomson
Asst. Chief Engr.—Wm. Stuart
M. M.—W. H. Dean
Elec. Engr.—Floyd Dean
Met.—Fred Jarm
PRODUCTS—Iron and steel rolls and O. H. steel castings of all descriptions
Capital—$1,500,000
Railroads—Penn., Wabash, N. Y. C.

HUDSON VALLEY COKE & PRODUCTS CORP., South Troy, N. Y.
Chairman—James A. Burden
Pres.—Henry Oliver
Vice Pres. Opr.—Warren S. Blauvelt
Asst. to Vice Pres.—Harlan M. Chapman
Sec. and Treas.—C. W. Cook

Asst. Treas. and Asst. Sec.—H. D. Bernhard
Pur. Agt.—F. E. Guerin
Gen. Mgr. and B. F. Supt.—S. O. Hobart
Asst. B. F. Supt.—S. S. Engle
Supt. Coke Plant—Geo. E. Davis
Asst. Supt. Coke Plant—J. E. C. Stroud
Chief Engr.—G. W. Williscroft
Elec. Engr.—P. L. Giering
Chemist—R. D. Williams
Safety—J. L. Warner
EQUIPMENT—One 500-ton B. F., 55 by-product coke ovens
PRODUCTS—Pig iron, coke, tar, benzol, sulphate of ammonia
Capacity—1,000 tons coke daily, 500 tons pig iron daily
Capital—200,000 shares no par, common authorized, 158,000; issued, $5,000,000 7% cum. pfd.
Railroads—Hudson River, N. Y. C. R. R.; also B. & M. and D. & H.

HUGHES & PATTERSON, 1701 No. Delaware Ave., Philadelphia, Pa.
Owners—Robert J. and William H. Hughes

HYDE PARK FDRY. & MACHINE CO., Hyde Park, Pa.
Pres.—Thomas W. McCausland
Vice Pres. Sales—James Lees
Treas., Sec. and Mach. Shop Supt.—N. H. Slonaker
Gen. Mgr.—Thomas W. McCausland
Pur. Agt.—G. E. Clifton
Mech. Engr.—Charles T. Slonaker
Elec. Engr.—Chester Daugherty
M. M.—Arthur McComb
EQUIPMENT—Grey iron and chilled roll foundry, pattern shop and machine shop
PRODUCTS—Chilled rolls, grey iron castings and rolling mill machinery
Railroads—Penna.

I

ILLINGWORTH STEEL CO., THE JOHN, Tacony and Lewis Sts., Frankford, Philadelphia, Pa.
Pres. and Gen. Mgr.—Clarence Illingworth
Vice Pres. and Treas.—Charles P. Soden
Sec.—Wm. H. Illingworth
PRODUCTS—Hammered and rolled Swedish and Norway iron

ILLINOIS STEEL CO., Chicago, Ill. General Offices: 208 South La Salle St. Plants at Chicago, Ill.; Gary, Ind.; Joliet.; Milwaukee, Wis.
Pres.—E. J. Buffington
Vice Pres.—T. W. Robinson
Vice Pres.—G. G. Thorp
Vice Pres., Gen. Mgr. Sales — Edwin S. Mills
Treas.—A. W. Carlisle
Sec.—E. B. Harkness
Asst. to Pres.—Geo. Campbell
Asst. to Vice Pres.—B. F. Mohr
Pur. Agt.—C. H. Rhodes
Mgr. Safety and Relief Depts.—G. A. Davis
Inspection Engr.—John Brunner
Asst. Insp. Engr.—F. S. Crane
Asst. Insp. Engr.—R. G. Glass
Traffic Mgr.—F. T. Bentley
Auditor—H. Morrison
Credit Mgr.—N. E. Crull

(At South Works, 3426 E. 89th St., Chicago, Ill.)

Gen. Supt.—P. A. Newton
Asst. Gen. Supt.—G. L. Danforth, Jr.
Asst. Gen. Supt.—W. Mathesius
Chief Engr.—L. Holmboe
Asst. Chief Engr.—G. R. McDermott
Elec. Engr.—W. S. Hall
Asst. Elec. Engr.—E. Lewis
Civil Engr.—J. F. Brown
Asst. Civil Engr.—G. Nass
M. M.—Joseph Easthope
Asst. M. M.—Chas. Clay
Met. Engr.—E. J. Janitzky
Chief Chemist—L. P. Chase
Chief Insp.—R. H. Bowlby
Asst. Chief Insp.—H. P. McLaughlin
Supervisor of Labor and Safety—T. H. McKenney
Asst. Supervisor of Labor and Safety—J. Wiechert
Auditor—J. F. Wilson
Asst. Auditor—H. S. Sylvester
Chief Clerk—J. L. Hull
Vocational Educator—E. L. Bost
Supt. B. F.—H. A. Strain
Asst. Supt. B. F.—G. E. Steudel
Asst. Supt. B. F. 5-10—R. A. Gillis
Steel Production Supt.—M. J. Devaney
Asst. Supt. B. F. 1-E—R. Beck
Supt. No. 1 O. H.—C. L. Kinney, Jr.
Asst. Supt. No. 1 O. H.—W. G. Smith
Supt. No. 2 O. H.—A. Muir
Asst. Supt. No. 2 O. H.—E. Johnson
Supt. No. 3 O. H. and Bess.—L. W. Johlic
Asst. Supt. No. 3 O. H.—W. J. Conway
Asst. Night Supt. No. 3 O. H. and Bess.—S. Creswell
Asst. Supt. Bessemer—C. V. Walker
Supt. Elec. Steel—H. B. Shulz
Asst. Supt. Elec. Steel—E. Chelius
Supt. Fdry.—P. M. Reilly
Asst. Supt. Fdry.—J. Fair
Supt. Rolling Mills—H. A. Henderson
Supt. Structural and Blooming Mills—R. Egan
Asst. Supt. Blooming and Structural Mills—W. Bennett
Supt. No. 1 Heavy Rail Mill—D. T. Howells
Asst. Supt. No. 1 Heavy Rail Mill—A. Loftis
Supt. Slab and Plate Mills—C. J. Horn
Asst. Supt. Univ. Plate Mill—T. Coradine
Asst. Supt. Slab Mill—Geo. Abel
Supt. Yard Dept.—E. G. Sherman
Supt. Ship. Dept.—L. R. Soderberg
Supt. Mason Dept.—S. Naismith
Supt. Transp. and Loco. Crane Dept.—C. H. Henderson
Roll Designer—J. E. Jones
Supt. Vessel Docks—G. E. Nelson
Supt. Alloy Mill—E. D. Wright

(At Joliet, Ill., Plant)
Gen. Supt.—D. R. Mathias
Asst. Gen. Supt.—Chas. T. Mason
Sec. to Gen. Supt.—Wm. T. Daggett
Supt. B. F.—L. A. Touzalin
Asst. Supt. B. F.—D. N. Bradley
Mech. Foreman B. F.—Wm. S. Young
Supt. Converter—H. W. Spencer
Asst. Supt. Converter—John D. Wombacher
Mech. Foreman—Daniel Ryan
Supt. Billet Mill—E. H. Jones
Mech. Foreman Billet Mill—Wm. Smith
Foreman Billet Mill—Milo F. Denick
Foreman Billet Mill—Geo. C. Floyd
Supt. Merchant Mill—Geo. Palmer
Foreman Merchant Mill—Geo. Paige
Foreman Merchant Mill—N. S. Robinson
Foreman Rod Mill—Leonard Peterson
Foreman Splice Mill—Andrew Olin
Supt. Coke Plant—Geo. P. Wardley
Asst. Supt. Coke Plant—Herbert H. Jones
Asst. Supt. Coke Plant—Frank Callahan
Mech. Foreman Coke Plant—Jas. M. Crabb
Chief Gas Engines—Harry G. Reilly
Supt. Factory—J. W. Murray
Asst. Supt. Factory—Arthur Weil
Supt. Boilers—Fred C. Gedge
Supt. Roll Shop and Fdry.—E. W. Thompson
Asst. Supt. Roll Shop—Chas. F. Bannon
Chief Engr.—J. A. Dyblic
Asst. Chief Engr.—F. J. Mowat
M. M.—James A. Bell
Asst. M. M.—Nichlas Diedrich
Asst. M. M.—Herman Meyer
Asst. M. M.—George T. Jones
Chief Chemist, Central Lab.—John V. Freeman
Asst. Chief Chemist, Central Lab.—Fred W. Ferner
Chief Chemist—H. H. Gerkensmeyer
Asst. Chief Chemist—T. H. Drake
Elec. Engr.—F. H. Kittredge
Superv. Safety and Labor—John P. Elb
Chief Draftsman—G. B. Bartlett
Chief Insp.—Clarence Reece
Asst. Chief Insp.—Geo. Crossen
Civil Engr.—D. A. With
Foreman Fdr.—Thomas Kirkham
Foreman Bolt and Nut Factory—William Dezee
Foreman Pipe Shop—Richard Hancock
Foreman Masons—Arthur L. Barnes
Foreman Machine Shop—J. W. Brockway
Foreman Boiler Shop—John W. Dunn
Foreman Blacksmith Shop—Albert Macey
Chief Clerk—L. E. Boswick
PRODUCTS—By-product coke, pig iron, billets, rods, rail joints, spikes, screw bolts and nuts

(At Gary Works, Gary, Ind.)
Gen. Supt.—W. P. Gleason
Asst. Gen. Supt.—C. P. Kimmel
Asst. Gen. Supt.—W. E. Hadley
Supt. B. F.—R. W. H. Atcherson
Asst. Supt. B. F.—A. L. Vincent
Asst Supt. B F.—L. C. Crewe
Supt. O. H.—J. L. Hyland
Asst. Supt. O. H.—W. H. Geesman
Supt. No. 1 O. H.—J. J. Dowling
Asst Supt. No. 1. O. H.—R. D Dwyer
Supt No. 2 O. H.—T. H. Clifford
Asst. Supt. No. 2 O. H.—John Miller
Supt. No. 3 O. H.—J. R. Kelly
Asst Supt. No. 3 O. H.—L. K. Suor, Jr.
Supt. No. 4 O. H.—R. F Campbell
Asst Supt. No. 4 O. H.—B. D. McCarthy
Supt Bloom and Billet Mills—R. A. Douglas
Asst. Supt. Bloom and Billet Mills—J. C. Wilkins
Supt. Rail Mill—T. J. Griffin
Supt. Plate Mill—J. A. Mahoney
Supt. Slab Mill—A. W. Aldrich
Supt. Merch. Mills—R. B. Hancock
Asst. Supt. Merch. Mills—C. S. Ramsay
Supt. Axle Mill—R. B. Hancock
Asst. Supt. Axle Mill—J. E. Ferguson
Supt. Roll Shop—J. D. Floyd
Supt. Coke Plant—L. F. Burress
Asst. Supt. Coke Plant—G. H. Recktenwall
Supt. Mason Dept.—H. Y. Laulsford
Supt. Transp.—C. F. Range
Supt. Emp. and Police—H. O. Egeber
Testing Engr.—E. Kieft
Mech. Engr.—C. A. Thayer
Asst. Mech. Engr.—A. G. Witting
M. M.—E. A. Comstock
Asst. M. M.—P. J Hake
Asst. M. M.—T. V. Freebury
Asst. M. M.—Joseph Ellman
Elec. Engr.—R. W. Cousins
Asst. Elec. Engr.—F. L. Collins
Asst. Elec. Engr.—G. M. Sturgess
Civil Engr.—R. E. Rowley
Chief Insp.—E. W. Eckersall
Asst. Chief Insp.—H. E. Britton
Met. and Chemist—A. D. Beers
Safety Insp.—K. M. Burr

(At Warehouse, University Ave. and Eustis St., St. Paul, Minn.)
Supt.—L. B. Douglass

(At St. Louis, Mo., Warehouse. 21st and Gratiot Sts.)
Supt.—Wm. C. Strand

(At Milwaukee, Wis., Works)
Gen. Supt.—J. D. Maurer
Local Auditor—H. P. Kaye
Gen. Mill Supt.—F. J. Bissett
M. M.—F. G. Elsby
Chief Engr.—Carl Mitchell
Yard Supt.—Harold H. Kaye
Chief Elec.—W. S. Nield
Chief Chemist—A. W. Osborne
Chief Insp.—W. E. Wheatley
Supt. of Transp.—John W. Morgan
Supt. Roll Shop—Jos. E. Pfeiffer
Supt. Heat Treat. and Anneal.—Wm. H. Voigt

INDIANA ROLLING MILL CO., Cadiz Pike, New Castle, Ind., P. O. Box 409
Pres.—S. A. Ingersoll, Galesburg, Ill.
Vice Pres.—R. C. Ingersoll, Galesburg, Ill.
Treas.—H. G. Ingersoll
Sec.—A. P. Zetterberg
Pur. Agt.—H. D. Warfield
Prod. Mgr.—S. L. Ingersoll

Mech. Engr.—A. C. Gaylord
EQUIPMENT—Rolling mills, punches, shears, shovel factory
PRODUCTS—High carbon sheets for discs, sections, coulters, saws, gongs, soft center and solid plow steels, floor shapes, shovels, spades, scoops, etc.
Railroads—Three, traction and trucks

INDIANA STEEL & WIRE CO., Muncie, Ind.
Pres.—A. L. Kitselman
Vice Pres.—H. E. Hartman
Vice Pres.—F. M. Crapo
Sec. and G. M.—E. F. Kitselman
Treas.—C. M. Kitselman
Pur. Agt.—N. P. Ludington
Gen. Supt.—F. G. Nichols
PRODUCTS—Plain and galvanized wire, both single and double galvanized; various grades of strand, telephone and telegraph wire; coated nails, poultry netting and farm fence

INDUSTRIAL STEEL CASTINGS CO., Waterworks Drive, Toledo, O. Plant: Millard Ave., at Front St., Toledo, O.
Pres.—Joseph L. Tillman, Sr.
Vice Pres.—Joseph L. Tillman, Jr.
Vice Pres.—W. E. Wine
Treas. and Pur. Agt.—L. J. Tillman
Sec. and Sales Mgr.—Ralph F. Tillman
Supt Fdry.—R. R. Souder
M. M.—Frank Vollmayer
Met.—H. H. Serrels
Chemist—Victor Zang
EQUIPMENT—Complete electric steel foundry, including electric annealing furnaces and electric coke ovens
PRODUCTS—Steel castings by electric furnace process
Capacity—350 tons per month
Capital—$200,000; issued, $174,100
Railroads—W. & L. E. side track. Can ship in carload lots C. C. C., via any railroad entering Toledo

INDUSTRIAL BROWNHOIST CORP., 135 Washington Ave., Bay City, Mich. Plants: Bay City, Mich., Cleveland and Elyria, O.
Pres.—A. C. Brown, Cleveland
Vice Pres.—Melvin Pattison, Cleveland
Vice Pres. Sales—H. G. Steinbrenner, Cleveland
Vice Pres. Opr.—H. H. Perry
Asst. to Vice Pres.—W. H. Smith, Cleveland
Treas.—H. H. Brown, Cleveland
Asst. Treas.—A. J. Copeland
Sec.—E. S. Clark
Pur. Agt.—T. B. Bolton, Cleveland
Works Mgr.—W. B. Perry
Asst. Supt.—C. E. Smith
Supt.—J. N. Nelson
Chief Engr. (Cranes)—J. C. Wheat
Mech. Engr.—C. U. North
Elec. Engr.—J. W. Seaman
Asst. Elec. Engr.—D. Auger
Prod. Engr.—J. S. See
Steam Engr.—L. C. White
M. M.—M. Crawforth
Met.—S. R. Robinson
Chief Chemist—Wm. Van Egmond
Safety Insp.—A. W. Bradfield
Machine Shop Supt.—F. L. Wild
Draftsman—G. R. Smith
Storekeeper—E. C. Bassett
PRODUCTS—Locomotive and wrecking cranes, pile drivers, rail saws, steam hammers, buckets, crawling tractor cranes, shovels, draglines, transfer tables, etc.
Railroads—Mich. Cent., Pere Marquette, G. T.

INDUSTRY IRON WORKS. Mobile, Ala.
PRODUCTS—Steel castings

INLAND STEEL CO., 38 South Dearborn St., Chicago, Ill. Plants: Chicago Heights, Ill.; Indiana Harbor, Ind.; Trinkwater, Wis.
Chairman Board of Directors—L. E. Block
Pres.—P. D. Block
Asst. to Pres.—D. P. Thompson
First Vice Pres.—E. M. Adams
Vice Pres.—E. J. Block
Vice Pres.—W. C. Carroll
Vice Pres.—John W. Lees
Vice Pres.—C. R. Robinson
Treas. and Sec.—W. D. Truesdale
Asst. Sec.—T. J. Sullivan
Asst. Treas.—J. H. Morris
Pur. Agt.—J. E. Stafford

(At Chicago Heights, Ill., Works)
Supt.—C. B. Murton
Chief Engr. and Foreman Mach.—S. Stuckey
Mech. Engr.—W. P. Goodman
Elec. Engr.—W. Schweeler
Works Auditor—E. A. Engelhardt
Asst. Works Auditor—F. E. Green
Roll Designer—A. Paulton

(At Indiana Harbor, Ind., Plant)
Gen. Supt.—J. H. Walsh
Asst. Gen. Supt.—W. Sykes
Production Mgr.—W. T. Willis
Supt. Blast Fur. Dept.—H. W. Linhardt
Supt. Open Hearth Dept.—H. B. Hubbard
Supt. Coke and By-Product Dept.—H. R. de Holl
Supt. 40, 32, 28-inch and No. 2 Billet Mills—H. S. Aurelius
Supt. Continuous Mill—W. E. Jewell
Supt. Plate Mill—F. M. Gillies
Supt. Sheet and Galvanizing Dept.—W. H. Weichsel
Supt. 24-inch Bar Mill—Wm. Fox
Supt. 36, 19-inch and No. 1 Billet Mill—T. W. Gething
Supt. 14-inch Merchant Mill—G. W. Wurst
Chief Chemist—J. C. Dickson
Chief Inspector—R. B. Rouse
Chief Engr.—F. V. Carroll
Steam Engr.—C. J. Smith
Chief Elec.—R. L. McIntosh
Supt. Labor and Transp. Depts.—W. J. Rossman
Storekeeper—D. L. Carlan
Works Auditor—J. E. Palmer

Paymaster—H. A. Fredenhagen
Supt. Bolt and Rivet Dept.—C. E. Slyke
Supt. Roll Dept.—T. W. Campbell
Safety Director—H. M. Croghan
Gen. M. M.—B. S. Burell
Pur. Agt.—J. E. Stafford
Supt. Splice Bar and Tie Plate Dept.—F. J. Werner
Asst. Traffic Mgr.—R. E. Flynn
Asst. Supt. Power Dept.—W. A. Perry
EQUIPMENT—Four blast furnaces, 26 open hearth furnaces, one 36-inch blooming mill, one 40-inch blooming mill, one 32-inch blooming mill, one 28-inch rail and structural mill, one 24-inch structural mill, two 24-inch billet and slab mills, one 19-inch sheet bar mill, one 100-inch plate mill, one continuous Mill, 11-inch, one merchant mill, 14-inch; 18 sheet mills, various nut, bolt, rivet and spike machines; splice bar and tie plate machines; 204 coke ovens
PRODUCTS—Pig iron, billets, structural shapes, rails, bars, plates, sheets, bolts nuts, rivets, spikes, silo rods, tie plates, splice bars and coke by-products
Railroads—Indiana Harbor Belt R. R. and connections with all Chicago railroads

(At Milwaukee, Wis., Plant, 43rd and Burnham Sts.)

Gen. Supt.—E. G. Jones
Pur. Agt.—C. D. Garber
Hot Mill Supt.—Tom O. Yost
Asst. Hot Mill Supt.—Al Verfurth
Foreman Galv. Dept.—E. A. Wessely
Foreman Galv. Dept.—Earl Baughammer
Chief Elec.—F. B. Rurey
Roll Turner—Art Partridge
Labor Foreman—Pat King
M. M.—G. W. Smead
Safety Inspector—F. G. Otis
Machinist Foreman—R. Gly
Storekeeper—R. E. Johnston
EQUIPMENT—Ten sheet mills, 5 galvanizing pots
Capacity—60,000 net tons
Railroad—C & N. W.

INTERNATIONAL HARVESTER CO., 606 So. Michigan Ave., Chicago, Ill. Operates Wisconsin Steel Works, South Chicago, Ill.; Deering Works Rolling Mill, 1734 W. Fullerton Ave., Chicago, Ill. Plants at Auburn Park, Chicago, Ill. Akron, O.; Auburn, N. Y.; Rock Falls, Ill.; Springfield, O.; West Pullman, Ill.
Chairman—Harold F. McCormick
Pres.—Alex Legge
1st Vice Pres.—H. F. Perkins
Vice Pres.—A. E. McKinstry
Vice Pres.—H. B. Utley
Vice Pres., Treas.—G. A. Ranney
Vice Pres.—Cyrus McCormick, Jr.
Mgr. of Mfg.—John G. Woods
Gen. Counsel—Wm. S. Elliott
Sec.—Wm. M. Gale
Mgr. Industrial Relations—George J. Kelday
Capital—$100,000,000, preferred; issued, $62,678,400; $130,000,000, common; issued, $99,876,772

(At South Chicago, Ill., Wisconsin Steel Works)

Gen. Supt.—George E. Rose
Asst. Gen. Supt.—I. O. Jones
Supt. B. F.—H. P. Howland
Supt. Coke Oven Dept.—L. B. Robertson
Supt. O. H.—F. L. Ramsey
Asst. Supt. O. H.—John Sullivan
Supt. Bessemer Dept.—J. A. Overend
Supt. Rolling Mills—T. M. Jewell
Supt. Rolling Mills (North Mill)—T. J. Jenkins
Chief Engr.—Wm. Forsstrom
Gen. M. M.—T. R. James
Supt. Elec.—Frank A. Wiley
Chief Chemist and Met.—B. F. Courtright
PRODUCT—Steel bars
Capacity—350,000 gross tons annually

(At Auburn Park, Chicago, Ill., Weber Works, 601 W. 81st St.,

Gen. Supt.—M. J. LaCroix
Asst. Gen. Supt.—C. E. Casperson
Chief Engr.—A. J. Kramer
Asst. Chief Engr.—C. J. Dietz
Elec. Engr.—Jos. Newman
Steam Engr.—F. A. Heine
M. M.—H. R. Slivinski
Storekeeper—T. J. Murphy

(At Auburn Park, Chicago, Ill., 601 W. 81st St., Weber Works)

Gen. Supt.—F. G. Lossmann
Chief Engr.—R. Alexander
Safety Engr.—A. Doll
Storekeeper—E. W. Kocher
Works Auditor—C. Tanis

(At Tractor Works, 2600 W. 31st Blvd., Chicago, Ill.)

Gen. Supt.—E. C. Lutz
Asst. Gen. Supt.—J. H. Waring
Chief Engr.—D. B. Baker
M. M.—H. A. Huntoon
Safety Engr.—J. M. Ehrler
PRODUCTS—Tractors and motors

(At Canton, Ill., Plant)

Gen. Supt.—C. B. Reed

(At Rock Falls, Ill., Works)

Gen. Supt.—Roy Gleason
Chief Engr.—Edw. A. Freeman
M. M.—J. F. Sundberg
Foreman Machine Shop—Karl Cruse
Safety Insp.—Thos. F. Kelly
PRODUCT—Agricultural implements

(At West Pullman, Ill., Works)

Supt.—M. J. Graham
M. M.—C. D. Bending
Elec. Engr.—J. A. Fisher

(At Fort Wayne, Ind.)

Supt.—J. J. Rodgers
Asst. Supt.—C. M. Harrison
Supt. Tools—Robt. Spurgin, Jr.
Prod. Mgr.—F. C. Mahan
Chief Insp.—F. A. Statz

(At Springfield, O., Works)

Supt.—Karl O. Schrieber

Asst. Supt.—Wm. F. Lacey
Pur. Agt.—H. H. Stephenson

INTERNATIONAL NICKEL CO., THE, 67 Wall St., New York. Plant: Huntington, W. Va.
Pres.—R. C. Stanley
Vice Pres., Sec. and Treas.—J. L. Ashley
Asst. Treas.—R. Wakefield
Mgr. Pur.—Frank Ludlum
Mgr. Opr. Dept.—John F. Thompson
Consulting Engr.—W. L. Witherspoon
Capital—$8,912,600, pfd.; $41,834,600, common

(At Huntington, W. Va., Refinery and Rolling Mills)

Gen. Mgr.—A. S. Shoffstall
Asst. Gen. Mgr.—H. M. Brown
Pur. Agt.—M. R. Mason
Chief Engr.—O. Rohrberg
Elec. Engr.—F. C. Watson
Supt. Merchant Mill—G. W. Russell
Supt. Sheet Mill—J. G. Thompson
Supt. Cold Strip Mill—J. T. Roach
Supt. Cold Drawn Dept.—J. C. Lenhart
M. M.—P. H. Whalen
Supt. Refinery—A. E. Keyes
Met. and Supt. of Research—W. A. Mudge
Supt. Hammer and Chipping Shop—T. M. Eagan
Chief Chemist—E. Kline
PRODUCTS—Monel metal and nickel blocks, shot, ingots, billets, sheet bars, hot rolled bars, rods, wire rods, sheets, forgings, cold drawn rods and cold rolled sheets, polished sheets, strip, bolts, nuts, washers, rivets

INTERSTATE IRON & STEEL CO., 104 S. Michigan Ave., Chicago, Ill. Plants: 118th St. and Calumet River, So. Chicago; Grand Crossing, 785 So. Chicago Ave., Chicago, Ill.; East Chicago, Ind.
Pres. and Gen. Mgr.—Paul Llewellyn
Vice Pres. and Treas.—George F. Davie
Vice Pres.—H. S. Schroeder
Vice Pres.—W. J. Mackenzie
Sec.—J. E. Russell
Pur. Agt.—B. L. Verner
Capital—$7,000,000; issued, $5,366,100; bonds issued, $4,000,000

(At 118th St. and Calumet River Plant)

Gen. Supt.—George M. Smith
Asst. Gen. Supt. and Supt. O. H.—Andrew Forrest
Supt. Bloom Mill—W. C. Davis
Supt. Merchant Mill—W. N. Weaver
Chief and Mech. Engr.—A. A. Claassen
Chief Elec. Engr.—H. E. Davis
M. M.—H. Meyers
Met.—W. J. Mackenzie
Asst. Met.—Elmer Larned
Chief Chemist—A. E. Johnson
Chief Draftsman—G. Olson
Safety Engr.—F. A. Lauerman
Roll Designer—J. Hindmarsh
Foreman Mach.—H. Capellman
Storekeeper—J. P. Hennessey
PRODUCTS—O. H. alloy steel, ingots, billets, bars
Railroads—Indiana Harbor Belt, Penna., B. & O. and N. Y. C.

(At Grand Crossing, 7850 So. Chicago Ave., Chicago, Ill.)

Mgr.—W. C. Stone
Elec. Engr.—John Klopsch
M. M.—E. E. Kilmer
Foreman Rod Mill—J. E. Hall
Foreman Mach.—August Mangerson
PRODUCTS—Rods, wire, nails, rivets, cut tacks

(At East Chicago, Ind., Works)

Mgr.—C. P. Cutler
Chief Draftsman—A. J. Hermansdorfer
Supt. Fin. Mills—Geo. M. Davis
Safety Engr.—Frank A. Lauerman
M. M.—W. R. Davis
Roll Designer—Walter Watts
PRODUCTS—Iron and steel bars and shapes, railroad tie plates
Capacity—150,000 tons

IVINS TUBE WORKS, Ellwood, Oak Lane Station, Philadelphia, Pa.
Prop.—Ellwood Ivins
Asst. Mgr. and Pur. Agt.—J. B. Cording
Chief Engr., Wks. Mgr. and Safety Engr.—Martin Hay
Asst. Pur. Agt.—N. H. Jack
Elec. Engr.—Samuel Rainey
Foreman Small Tube Dept.—Lewis Boyd
Foreman Large Tube Dept.—Frank Clarke
Foreman Mach.—Arthur Faulkner
PRODUCTS—Seamless steel and aluminum tubing

J

JACKSON IRON & STEEL CO., Jackson, O.
Act. Pres. and Vice Pres.—D. D. Davis, Oak Hill, O.
Treas. and Pur. Agt.—J. S. Morgan
Sec.—J. W. Potter
Gen. Supt.—H. R. Schick
M. M.—C. C. Brown
Chemist—Roy Cox
Foremen—Pearl May, George Bates and Felt Miller
EQUIPMENT—One blast furnace
PRODUCTS—Silvery, Bessemer, ferro silicon and spiegeleisen
Capacity—150 tons daily
Capital—$1,000,000
Railroads—B. & O. and D. T. & I.

JANSON STEEL & IRON CO., Columbia, Pa.
Pres.—William C. Kasel
Sec., Gen. Mgr. and Pur. Agt.—Frank V. Kasel
PRODUCTS—Refined bar iron and steel concrete bars
Capacity—15,000 gross tons
Capital—$100,000; issued, $59,000
Railroads—Reading and Penna.

JEFFREY MANUFACTURING CO., First Ave. and Fourth St., Columbus, O.
Chairman—J. A. Jeffrey

Pres. and G. M.—Robert H. Jeffrey
Vice Pres.—J. W. Jeffrey
Vice Pres. and Asst. Gen. Mgr.—R. W. Gillespie
Treas.—C. W. Miller
Sec.—W. A. Grieves
Asst. Treas.—A. Ruppersberg
Pur. Agt.—J. F. Davidson
Gen. Supt.—H. W. De Bruin
Supt.—C. D. Ford
Chief Engr. Min. Dept.—N. D. Levin
Chief Engr. Material Handling Div.—E. C. Slater
Steam Engr.—J. Sigrist
Mach. Shop Supt.—O. B. Jones
Brick Supt.—E. Kintz
Safety—C. E. Fetherolf
Storekeeper—C. J. Liefield
PRODUCTS—Coal and ash handling equipment; portable loaders and unloaders, crushers, pulverizers, coal mining and tipple machinery and equipment, ventilation fans

JESSOP STEEL CO., Washington, Pa.
Pres. and Gen. Mgr.—S. A. Grayson
Treas. and Sec.—F. T. H. Youngman
Met. Engr.—M. R. Trembour
M. M.—Daniel Jones
Chief Chemist—A. R. Anderson
Director of Research—O. Smalley
EQUIPMENT—Crucible and electric melting furnaces, sheet, bar plate and blooming mills, forge shop and annealing plant; cold rolled strip mill
PRODUCTS—Crucible and electric furnace steel, carbon alloy high speed special analyssi bars, forgings, shapes and sections, treated high speed steel tool holder bits. Crucible speed electric furnace and domestic sheet steel, carbon alloy and high speed steels from 1-inch thick down to 27 gauge; saw steel for hand, crosscut hand, hack, gang, gin and drag saws, circular saw plates, special alloy steels for all kinds metal cuttings and screw slotting saws; sheet steel for pocket, butcher and surgical knives; magnet steels, low carbon, chrome vanadium nickel or chrome steel or nickel chrome steel in ingot form, plates or sheets, automobile or aeroplane steel in sheets and plates, plow shapes and agricultural steels, reamer blade steel, stainless steel and iron; high carbon cold-rolled strip

JEWELL STEEL AND MALLEABLE CO., 1375 Protero Ave., San Francisco, Cal.
PRODUCTS—Steel and malleable castings

JONES & LAUGHLIN STEEL CORP., 311 Ross St., Pittsburgh, Pa.
Chairman—B. F. Jones
Pres.—Chas. A. Fisher
Vice Pres.—Willis L. King
Vice Pres.—G. M. Laughlin, Jr.
Vice Pres.—W. C. Moreland
Vice Pres.—S. E. Hackett
Vice Pres.—T. M. Girdler
Sec.—B. F. Jones, III
Treas.—J. C. Watson
Comptroller—W. J. Creighton
Chief Engr.—D. C. McKeel

(At South Side Works, Pittsburgh, Pa.)
Gen. Supt.—J. Z. Collier
Asst. to Gen. Supt.—S. S. Marshall
Gen. Supt. O. H. and Bess.—W. J. Ballantyne
Asst. Gen. Supt. O. H. and Bess.—L. E. Emmerton
Supt. Bessemer Dept.—J. L. Brennen
Supt. Blooming Dept.—H. D. Stark
Asst. Supt. Blooming Dept.—W. A. Holt
Supt. Blooming Mills—F. W. Koehl
Asst. Supt. Bloom. Mills—Lester Logue
Supt. Bloom Yard—F. C. Loughran
Gen. Supt. Polishing Mills—F. L. Kehl
Supt. Polishing Mills—H. W. Callahan
Gen. Supt. Fin. Mills—J. H. Caylor
Asst. Gen. Supt. Fin. Mills—W. W. Barber
Supt. Machine Shop—W. A. Davies
Supt. No. 9, 10 and 13 Mills—Geo. Bauer
Supt. No. 11 Mill—F. R. Ward
Supt. No. 14 Mill—J. D. Stewart
Supt. Nos. 15, 16 and 17 Mills—P. E. Nestor
Supt. Nos. 1 to 8 Mills—F. C. Kohler
Supt. No. 1 O. H.—W. C. McConeghy
Supt. Nos. 2 and 3 O. H.—Walter S. Wright
Supt. Shops and Fdry.—J. M. Morris
Asst. Supt. Shops and Fdry.—W. J. Patterson
Supt. Steam Power—C. J. Wyrough
Supt. Elec. Power—W. F. Riggs
Supt. Employment—J. C. Carr
Supt. Fdry.—Robert Dunlap
Supt. Hammer Shop—T. J. Hickey
Supt. Labor—Paul C. Cox
Chief Engr.—J. B. Carlock
Steam and Ind. Engr.—H. A. Deuel
Elec. Engr.—Hugnart H. Laughlin
Asst. Elec. Engr.—H. J. Walters
Safety Engr.—G. H. McClain
Chief Chemist—H. E. Slocum
Met. and Insp.—H. W. Graham
M. M. Bloom. Mills—W. E. Davies
M. M. Finish. Mills—J. E. Millard
M. M. Open Hearth—Geo. B. McKee
Roll Designer—N. C. Readleman
Storekeeper—A. C. Batz

(At North Side Plant, 3450 Second Ave., Pittsburgh, Pa.)
Gen. Supt.—J. G. West
Chief Engr.—Knute Backlund

(At Keystone Works, Second Ave., Pittsburgh, Pa.)
Gen. Supt.—U. S. McClintic
Asst. Gen. Supt.—H. Layman
M. M.—George Bonheyd

(At Eliza Works, Second Ave., Pittsburgh, Pa.)
Gen. Supt. of Elec Power—Al. Jones
Supt of B. F.—J. C. Murray
M. M.—Ward George
Asst. M. M.—A. J. Wilson
Supt. Supply Dept.—J. J. Williams

(At By-Products Coke Ovens, Second Ave., Pittsburgh, Pa.)
Supt.—R. W. Campbell
Asst. Supt.—W. H. Matson
Chief Chemist—F. W. Wagner

(At Soho Works, Second Ave., Pittsburgh, Pa.)
Gen. Supt.—J. S. Riggs
Asst. Gen. Supt.—G. M. Laughlin, III
Gen. Supt. Plate Mills—John S. Jessup
Supt. Plate Mills, 128-inch—J. H. Meyer
Supt. Plate Mills, 45 and 78-inch—Sam Chamberlain
Supt of B. F.—J. P. Allsup
Supt. Open Hearth (Day)—Taylor Turner
Supt Open Hearth (Night)—J. E. Eisingart
Supt. Supply Dept.—W. S. Barr
M. M.—Thomas P. McCallen
Supt. Spike Mill—W. R. Elliot
Supt. Testing Dept.—C. Goldcamp

(At Aliquippa Works, Woodlawn, Pa.)
Gen. Supt.—F. E. Fizger
Asst. Gen. Supt.—C. M. White and Greenville Lewis
Supt. B. F.—Harry Saxer
Asst. Supt. B. F.—R. A. Fields
Supt. Steel Works—C. L. Turley
Supt. O. H. and Bess.—C. L. Mowry
Asst. Supt. O. H. and Bess.—L. A. Lambing
Supt. Tin Plate Dept.—L. H. Pyle
Supt. Bloom Dept.—M. E. Goetz
Supt. Wire Dept.—H. M. Carr
Supt. Bee Hive Coke Works—I. A. Smith
Supt. By-Prod. Coke Dept.—R. H. Schaller
Supt. Boiler Shop—D S. Erwin
Chief Engr.—C. W. Littler
Asst. Chief Engr.—L. J. Reed and J. L. Klindworth
Elec. Engr.—R. M. Hussey
Asst. Elec. Engrs.—S. C. Rainbow, G. R. Carroll, G. A. Kaufman
Steam Engr.—C. L. Dudley
Safety Engr.—W. C. Titus
M. M.—J. V. Albaugh
M. M. Blast Fur.—Harry Gillespie
M. M.—J. L. Johnson
Met.—W. R. K. Scott
Chemist—C. F. Allison
Foreman Machinist—W. Caldwell
Prod. Dept.—C. R. Lennig
Storekeepers—A. S. Watkins and S. L. Carlin

JUDSON MANUFACTURING CO., San Francisco, Cal. Plants: Oakland and Emeryville, Cal.
Pres.—C. J. Maas
Vice Pres.—Edmons Lyman
Sec.—R. B. Girdwood
Treas.—T. A. Mass
Pur. Agt.—D. A. Bailey

(At Oakland and Emeryville, Cal., Plants)
Gen. Supt.—F. D. Parsons
Elec. Engr.—Romain W. Myers
Asst. Elec. Engr.—C. K. Goodwin
Civil Engr.—J. O. Bayer
Supt. O. H.—O. Bonnar
Supt. Rolling Mills—J. E. Molamphy
Gen. M. M.—N. C. McQuird
Chemist—J. V. Hayes
Chief Draftsman—T. M. Justice
Roll Designer—A. Steel
Storekeeper—R. Hunter
Safety Engr.—J. C. Coburn
EQUIPMENT—Three open hearth furnaces, rolling mill, machine structure, bolt and pattern shops, steel and iron foundries
PRODUCTS—Iron and steel, merchant bars, plates, small structural shapes
Capacity—60,000 tons annually
Fuel—Crude oil
Railroads—Southern Pacific, Western Pacific, Santa Fe, the former controlling side track

K

KANSAS CITY MALLEABLE CASTINGS CORP., First and Wash. Aves., Kansas City, Kan.
Chairman—John H. Darrah
Pres.—Frank D. Bruce
Asst. to Pres.—J. W. Thomas
Vice Pres.—E. R. Bailey
Treas.—Fred L. Cotton
Sec.—Chas. V. Bailey
PRODUCTS—Malleable and cast iron
Capacity—20 tons per day
Capital—$225,000
Railroads—Mo. Pac., Union Pacific, K. C. Southern, and C. G. W.

KANSAS CITY STEEL & WIRE CO., 12th St. and Terminal R. R., Kansas City, Kan.
Vice Pres. and G. M.—L. W. Conroy
EQUIPMENT—Two 50-ton open hearth furnaces, 8-inch and 10-inch mills, hydraulic press, wire and nail machinery

KAY-BRUNNER STEEL CASTING CO., 2721 Elm St., Los Angeles, Cal.
Pres. and G. M.—L. D. Kay
Vice Pres. and Gen. Supt.—G. B. Montgomery
Treas., Sec. and P. A.—J. F. Brunner
Chief Engr.—R. V. Reverdy
M. M.—H. A. Hilsen
Chief Draftsman—Leonard Bartelmeh
EQUIPMENT—Pattern shop and electric steel foundry; also machine shop
PRODUCTS—Small electric steel castings and steel motor truck wheels
Capacity—250 tons castings per month
Capital—$50,000
Railroads—So. Pac., Union Pac., Santa Fe., Los Angeles Harbor

KELLY PLOW CO., G. A., Longview, Texas
PRODUCTS—Steel castings

KENSINGTON STEEL CO., 505 Kensington Ave., Chicago, Ill. (Formerly Inland Engineering Co.)
Pres. and Gen. Mgr.—W. S. McKee

Vice Pres. Sales—E. C. Bauer
Treas.—W. F. Mandel
Sec.—L. G. Alt
Pur. Agt.—S. H. Olson
Sales Mgr.—E. A. Lerner
Asst. Sales Mgr.—Kenneth Jensen
Gen. Supt.—H. V. Arnot
EQUIPMENT—One 1½-ton electric furnace
PRODUCTS—Manganese steel castings and alloy steel castings
Capacity—100 tons per month
Railroads—Pullman; switch track

KENT MACHINE CO., THE, Portage St., Cuyahoga Falls, O.
Pres.—M. G. Garrison
Treas.—Roy H. Smith
Asst. Treas.—A. B. Babbitt, Jr.
Sec. and Gen. Mgr.—A. B. Babbitt
Pur. Agt—A. C. Lovell
Gen. Supt.—W. J. Irvin
Machine Shop Supt.—Roy Patterson
Chief Engr.—C. C. Soper
EQUIPMENT—Foundry and general machine shop

KEOKUK ELECTRO METALS CO., Keokuk, Ia.
Pres. and G. M.—G. E. Weissenburger
Vice Pres. and Treas.—John Dillon
Sec.—G. L. Weissenburger
Chemist—R. G. Ebersole
Met. and Wks. Mgr.—L. E. Othmer
PRODUCTS—Ferro-silicon, silvery iron, Bessemer ferro-silicon
Capacity—24,000 gross tons
Capital—$250,000; issued, $226,000
Railroads—C. B. & Q., Rock Island, T. P. & W., Wabash

KERRIHARD CO., THE, 401 W. Coolbaugh, Red Oak, Tenn.
Pres.—E. W. Kerrihard
Treas.—A. F. Holm
Sec. and Gen Mgr.—C. C. Kerrihard
Pur. Agt.—A. Joilan
Sales Mgr.—C. R. Trimble
Supt.—O. C. Anderson
Foreman Steel Shop—F. Davis
Foreman Mach.—H. Bloom
Foreman Fdry.—John Roof
PRODUCTS—Foundry and steel products
Capital—$75,000
Railroads—C. B. & Q.

KEYSTONE DRAWN STEEL CO., Spring City, Pa.
Pres.—W. N. Lynch
Vice Pres. and Gen. Mgr.—J. J. Komara
Vice Pres. Sales—A. J. Kinnucan
Treas.—I. D. Hetzell
Sec.—Richard Curry
Gen. Supt.—H. J. Bauman
EQUIPMENT—Cold finished mills
PRODUCTS—Cold finished steel
Capacity—2,000 tons per month
Capital—$300,000
Railroad—Penna. Siding

KEYSTONE STEEL & WIRE CO., Peoria, Ill.
Pres. and Gen. Mgr.—B. L. Sommer
Vice Pres.—Charles W. LaPorte
Vice Pres. and Gen. Supt.—W. H. Sommer
Sec.—D. P. Sommer
Treas.—Henry G. Sommer
Asst. Treas.—B. Ziegler and A. M. Kambly
Pur. Agt.—E. P. Kastien
Asst. Gen. Supt.—John Sommer
Supt. Wire Mill—J. L. Herman
Supt. Steel Mill—Wm. Herman
Supt. O. H. and Met.—J. L. Schueler
Chief Engr.—John C. Newell
Elec. Engr. Wire Mill—L. A. Wynd
Elec. Engr. Steel Mill and M. M.—Wm. Brown
M. M. Wire Mill—Joe Ramseyer
Chief Chemist—C. A. Kellogg
Draftsman—C. F. Bailey
Foreman Machinist—P. G. Sutherland
Chief Clerk—W. R. Conn
Storekeeper—Harry Hill
EQUIPMENT—Three 90-ton open hearth furnaces, one Morgan double strand continuous rod mill, one 35-inch B. mill, electrically driven blooming mill, wire drawing department, barbed wire department, galvanizing department, fence weaving and nail departments
PRODUCTS—Wire rods and finished wire products
Capacity—120,000 tons per annum
Capital—$7,000,000
Railroads—Peo. Ry. Terminal, Peo. Pekin Union Ry.

KIDD DRAWN STEEL CO., Erie Ave., Aliquippa, Pa.
Pres. and Gen. Mgr.—W. S. Kidd, Jr.
Vice Pres. and Treas.—W. A. Bliss
Sec.—A. E. Cardon
Gen. Supt.—A. E. Mansfield
Asst. Gen. Supt.—W. W. Wright
PRODUCTS—Drill rods, cold drawn steel, spring wire, special shape steel, high or low carbon
Capacity—3,000 tons annually

KINITE CORPORATION, 1338 St. Paul Ave., Milwaukee, Wis.
Pres.—D. P. Dorr
Vice Pres.—E. J. Mohr
Treas. and Sec.—Wm. Fleming, Jr.
Pur. Agt.—F. E. Spartz
Gen. Supt. and Met.—T. A. Moorman
EQUIPMENT—One quarter-ton Electromelt, one 250-lb. Snyder electric furnace
PRODUCTS—Alloy tool steel castings for blanking, forming, drawing dies and punches
Capacity—300 tons per year
Capital—$135,000

KNOXVILLE IRON CO., Tennessee Ave., Knoxville, Tenn.
Pres.—Morrow Chamberlain
Vice Pres., G. M. and P. A.—H. W. Van Benschoten
Treas. and Sec.—W. O. Schaad
Gen. Supt.—F. J. Scott
Chief Engr. and M. M.—Ross Edmonds
Elec. Engr.—W. B. Amanns

Safety Engr. and Storekeeper—W. R. Beavers
Roll Designer—Will Jones
EQUIPMENT—8, 9, 16-inch finishing mills; 20-inch puddle mill
PRODUCTS—Iron and steel bars, shapes and bands, re-inforcing bars, light rails
Capacity—60,000 tons
Capital—$1,000,000
Railroads—Southern and L. & N.

KOKOMO STEEL & WIRE CO., Kokomo, Ind.
Pres.—A. A. Charles
Vice Pres.—A. V. Conradt
Sec. and G. M.—J. E. Frederick
Treas.—G. W. Charles
Pur. Agt.—G. L. Rather
Gen. Sales Mgr.—S. S. Stambaugh
Gen. Supt.—R. K. Clifford
O. H. Supt.—W. A. Miller
Supt. Blooming Mill—T. A. Delo
Supt. Rod Dept.—Thomas Harris
Chief Engr.—H. C. Backert
Elec. Engr.—Earl Shilling
Steam Engr.—V. M. Harmon
Chemist—Tom Scott
Gen. M. M.—H. H. Newcom
Foreman Mach. Shop—Earl Walden
Safety Insp.—R. A. Chaffin
Chief Clerk—N. G. Wilkinson
PRODUCTS—Ingots, blooms and billets, wire rods, plain wire, nails, barbed wire fence, galvanized wire

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LACLEDE STEEL CO., 1317 Arcade Bldg., St. Louis, Mo. Plants: Alton and Madison, Ill.
Pres. and Treas.—Thomas R. Akin
Vice Pres. Sales—W. W. Scott, Jr.
Vice Pres. and Sec.—S. R. Tyler
Asst. Sec.—F. A. Eisele
Asst. Treas.—Wm. Schumm
Pur. Agt.—S. W. Mauss
Gen. Supt.—Lafayette Young
Asst. Gen. Supt.—W. M. Akin

(At Alton, Ill., Plant)
Plant Supt.—J. W. Gething
Supt. Open Hearth—Charles Heilig
Chief Engr.—H. H. Wood
Chief Elec.—L. Staubitz
M. M.—L. H. Derrer
Safety Engr.—H. J. Preble
PRODUCTS—Blooms, billets, hot and cold strip, bars and small shapes

(At Madison, Ill., Plant)
Gen. Supt.—O. F. Renner
M. M.—W. H. Kurtz
Safety Engr.—J. W. Thompson
Roll Designer—C. H. Lee
PRODUCTS—Bars, concrete re-inforcement, small shapes

LAFOLLETTE COAL & IRON CO., Lafollette, Tenn.
Pres. and Gen. Mgr.—S. S. Pratt
Treas.—W. D. Barton
Asst. Treas.—W. Cox
Sec.—E. W. Leighton, Boston
Supt. Mines—W. E. Hendren
PRODUCTS—Pig iron, coal
Capital—$1,000,000; bonds issued, $230,000
Railroads—Southern and L. & N.

LALANCE & GROSJEAN MFG. CO., 299 Broadway, New York, N. Y. Plants: Woodhaven, N. Y.
Pres.—A. J. Cordier
1st Vice Pres.—J. H. Stevenson
Treas.—B. C. Thomson
Sec. and Pur. Agt.—L. E. Campbell

(At Woodhaven, N. Y., Plant)
Supt.—A. Hunt.

LAMB MACHINE CO., Hoquiam, Wash.
Pres.—Frank H. Lamb
Treas.—Alice E. Lamb
Sec.—George E. Lamb
Gen. Mgr.—Charles D. Baker
Supt. Mach. Shop—Walter R. Steele
Supt. Fdry.—George E. Lamb
Mech. Engr.—Lawrence R. Leveen
Chemist—W. Dale Smith
EQUIPMENT—Foundry, forge shops, machine shop, pattern shops
PRODUCTS—Logging equipment, electric steel, iron castings, brass and bronze castings
Railroads—Direct rail connections Northern Pacific, O. W. R. & Nav. Co., C. M. & St. P., water shipments over part of Grays harbor docks

LATROBE ELECTRIC STEEL CO., 2626 Ligonier St., Latrobe, Pa.
Pres.—M. W. Saxman
Vice Pres. and G. M.—E. T. Edwards
Vice Pres. Sales—C. W. Guttzeit
Treas.—A. B. Baker
Sec.—M. W. Saxman, Jr.
Pur. Agt.—H. N. Syster
Supt.—C. H. Dressing
Supt. H. T.—S. H. Yealy
M. M.—C. F. Rebtoy
Met.—D. J. Giles
Chief Chemist—[illegible] Clarke
Insp.—L. A. Dahlstrom

LAVINO FURNACE CO., Bullitt Bldg., Philadelphia, Pa. Furnaces: Lebanon, Sheridan and Marietta, Pa.; Lynchburg, Va.
Chairman—E. J. Lavino
Pres.—E. M. Lavino
Vice Pres. and Gen. Mgr.—J. J. Howard
Vice Pres. Sales—H. C. DuBois
Sec.—J. W. Hale
Treas.—P. B. Mossman

(At Lebanon, Pa., Furnace)
Gen. Supt.—M. D. Langhorne
Chief Engr.—George Gering
PRODUCTS—Ferro manganese, spiegeleisen and pig iron

(At Marietta, Pa., Furnace)
Supt.—O. W. Morgan

M. M.—L. M. Gillham
Chemist—W. W. Cash, Jr.

(At Sheridan, Pa., Furnace)
(Furnace idle)
M. M.—W. G. Folden

(At Lynchburg, Va., Reusens Plant)
Gen. Supt.—M. D. Langhorne
Supt. Blast Furnaces—F. P. Bridges
M. M.—Thomas Tucker
Chemist—W. G. Gilbert

LEBANON IRON CO., Lebanon, Pa.
Pres.—Howard Longstreth
Treas. and Asst. to Sec.—J. J. McDermott
Sec.—J. R. Sproul
Pur. Agt.—J. C. Baney
Mgr. of Sales—H. M. Clymer
Comptroller—V. F. Ache
Gen. Supt.—W. H. Clark
Supt. Finish. Mills—C. W. Snavely
Brick Supt.—E. C. Helm
Elec. Engr.—A. C. Eddy
M. M.—Morris Loser
Chemist—F. H. Kirchoff
Roll Designer—Geo. E. Rhodes
EQUIPMENT—8 rotary puddle furnaces, 8, 9, 10, 16-inch finishing mills; bolt, nut and spike factory
PRODUCTS—Muck iron, skelp iron, stay-bolt and engine bolt iron, refined and double refined iron, bolts, nuts, rivets, track, mine and dock spikes, light angles, re-inforcing bars, air brake pins
CAPACITY—Puddle furnaces, 3,000 tons per month; finishing mills, 5,000 tons per month; bolt and nut factory, 1,000 tons per month; spike factory, 1,000 tons per month
Railroads—Penna. R. R. & Reading Co.

LEBANON STEEL FOUNDRY, Front and Lebanon Sts., Lebanon, Pa.
Pres.—W. H. Worrilow
Treas.—T. S. Quinn
Sec.—H. H. Light
Gen. Mgr.—K. V. Wheeler
Pur. Agt.—S. M. Gingrich
Comptroller—R. A. Nichols, Jr.
Gen. Supt.—J. R. Adams
Chief Engr.—G. Wm. Gardner
Research Engr.—A. C. Jones
EQUIPMENT—Two 2-ton Heroult electric furnaces
PRODUCT—Electric furnace steel castings
Capacity—6,000 tons annually
Capital—$300,000
Railroads—P. R. and Penna.

LeMOYNE STEEL CO., 905-908 Park Bldg., Pittsburgh, Pa. Plant: Monongahela City, Pa.
Pres.—H. A. Kuhn
Vice Pres.—H. K. Knopf
Vice Pres. Sales—E. H. Wheeler
Treas. and Sec.—S. A. Davis
Asst. Treas.—Miss H. Davis

(At Monongahela, Pa., Plant)
Gen. Supt.—P. E. Neckerman

LESCHEN & SONS ROPE CO., A., 5909 Kennerly Ave., St. Louis, Mo.
Pres.—Harry J. Leschen
Vice Pres.—John A. Leschen
Treas., Sec. and G. M.—William C. Henning
Gen. Supt.—Henry Peterson
Asst. Supt. Mach. Shop—L. T. Clarke
Chief Sales Engr.—C. K. Traber
Mech. Engr.—Arthur A. Leschen
PRODUCTS—Wire rope and aerial wire rope tramways
Railroads—Terminal Belt line connecting all roads entering St. Louis

LEWIS FOUNDRY & MACHINE CO., P. O. Box 1591, Pittsburgh, Pa. Plant: Groveton, Pa.
Pres. and Gen. Mgr.—Frank Cordes
Vice Pres. and Mgr. of Sales—J. R. Dunsford
Treas.—J. W. Thompson
Asst. Treas.—W. W. Holsinger
Pur. Agt.—M. Matthews
Chief Engr.—Floyd A. Beatty
Supt. Mach. Shop—A. F. Bathhurst
Supt. Foundry—W. C. Smith
Met.—C. N. Arnold
Roll Designer—Isaac Jones
Chemist—C. L. Williams
Pattern Shop Foreman—C. T. Winters
PRODUCTS—Iron rolls and rolling mill machinery
Capital—Preferred, $250,000; common, $500,000
Railroads—P. & L. E.

LINK BELT COMPANY, Executive offices 910 So. Michigan Ave., Chicago, Ill. Foundries: 300 W. Pershing Road (Gray iron and steel), Chicago, Ill.; 1700 So. Western Ave., Caldwell Plant (gray iron), Chicago, Ill.; Olney Foundry, 180 Duncannon Ave., Olney Station, Philadelphia, Pa. (gray iron); Dodge Steel Co., State Road, Tacony, Philadelphia, Pa. (electric steel); Belmont Foundry 200 So. Belmont Ave., Indianapolis, Ind. (malleable iron); 19th and Harrison Sts., San Francisco, Cal. (gray iron); Auxiliary Manufacturing Plants and Warehouses, Wellington and Peter Sts., Toronto, Can.; 10 Gauvin Lane, Montreal, Quebec; 19th and Harrison Sts., San Francisco, Cal.; 361-369 So. Anderson St., Los Angeles, Cal.; 820 First Ave., South, Seattle, Wash.; 67 Front St., Portland, Ore.
Chairman—Charles Piez
Pres.—Alfred Kauffman
Asst. to Pres.—R. P. Skimmen
Vice Pres.—A. C. Johnston
Treas. and Sec.—Richard W. Yerkes
Asst. Treas. and Sec.—F. V. MacArthur
Asst. Sec.—Louis Ganz, Philadelphia, Pa.
Chief Engr.—W. W. Sayers
PRODUCTS — Elevating, conveying and power transmission machinery
Capital—$15,050,000

(At Caldwell Plant, 17th St. and Western Ave., Chicago, Ill.)
Mgr.—L. W. Shirley

Vice Pres.—J. C. Nelliger
Asst. Mgr.—E. H. Matthews
Gen. Supt.—F. Moore
Pur. Agt.—Walter Teuber

(At 300 W. Pershing Road, Chicago, Ill.)

Machine Shop, structural shop, gray iron and steel foundries
Vice Pres. Opr.—A. C. Johnston
Asst. Gen. Mgr.—W. C. Carter
Pur. Agt.—Henry M. Coen

(At Indianapolis, Ind., Plant)

Gen. Mgr.—Geo. P. Torrence
Pur. Agt.—Frank C. Thompson

(At Dodge Works, Indianapolis, Ind.)

Mgr.—James S. Watson
Asst. Mgr.—Cornelius V. Loughery
Supt.—Frank J. Oakes
Asst. Supt.—Wm. G. Praed
Chief Engr.—Harold S. Pierce

(At Ewart Works, Indianapolis, Ind.)

Mgr.—Frank S. O'Neil
Supt.—Ed. L. McKinney
Chief Engr.—Charles R. Weiss
Supt. M. I. Fdry.—Walter H. Piez
Met. M. I. Fdry.—Neil Waterbury
M. M.—Joseph K. Langfitt
PRODUCTS—Malleable iron and steel chains, silent chain and roller chain, malleable iron castings

(At Philadelphia, Pa., Plant, 2045 Hunting Park Ave., Nicetown)

Vice Pres. Opr.—Staunton B. Peck
Asst. Sec.—Louis Gansz
Mgr.—George L. Morehead
Sales Mgr.—T. F. Webster
Supt.—Lee W. Harris
Chief Engr.—W. W. Sayers
Asst. Chief Engrs.—F. F. Waechter and J. F. Schott
Chief Elec. and Power Eng.—Fred W. Atz
Pur. Agt.—James C. Lenahan

LLEWELLYN IRON WORKS, 1200 N. Main St., Los Angeles, Calif.
Pres. and Gen. Mgr.—Reese Llewellyn
Vice Pres Opr.—Waler Taylor
Vice Pres. Sales—D. E. Llewellyn
Sec.—John Milner
Asst. to Sec. and Chief Engr.—Milton Baruch
Pur. Agt.—H. W. Christensen
Gen. Supt.—Reese H. Taylor
Asst. Gen. Supt.—W. J. Blackburn
Supt. Struct. Erec.—John A. McCone
Structural Engr.—Otto Dunkel
Elec. Engr.—C. P. Walker
Mech. Engr.—J. Bossart
Steam Engr.—G. S. Blankenhorn
Safety Engr.—C. Giegerich
Machine Shop Supt.—R. Richards
Foreman Struct. Shop—Walter Carter
Storekeeper—E. A. Hartman
PRODUCTS—Iron castings, fabricated steel, boilers, tanks and machinery
Capital—$5,000,000
Railroads—Southern Pacific

LOBDELL CAR WHEEL CO., Wilmington, Del.
Pres.—George G. Lobdell, Jr.
Vice Pres. and Gen. Supt.—Jos. Stuart
Treas. and Sec.—Howard L. Seaman
Asst. Treas. and Asst. Sec.—Winfield T. McKaig
Asst. to Pres. and P. A.—J. Bayard Hearn
Gen. Supt.—Joseph Stuart
Asst. Supt.—W. Stewart Allmond
PRODUCTS—Car wheels, chilled rolls, iron and steel castings and heavy machinery
Capital—$500,000
Railroads—Penna., Reading, B. & O., Deep Water Dock

LOCKHART IRON & STEEL CO., McKees Rocks, Pa.
Chairman—J. M. Lockhart
Pres.—T. J. Gillespie
Vice Pres.—James H. Lockhart
Vice Pres.—J. M. Gillespie
Sec. Treas.—T. J. Gillespie, Jr.
Supt.—Samuel Poster
M. M.—J. J. Purcell
Chief Engr.—Charles Heinauer
PRODUCTS—Muck bar, bar iron and steel, special quality iron, staybolt iron, engine bolt iron, chain iron

LOCOMOTIVE FINISHED MATERIAL CO., Third and Park Sts., Atchison, Kan.
Pres. and Gen. Mgr.—H. E. Muchmic
Vice Pres.—E. Hastings
Vice Pres.—R. Z. McIntosh
Treas. and Sec.—A. L. Bromley
Pur. Agt.—H. J. Kanz
Gen. Supt.—Arthur Morehead
Elec. Engr.—C. C. Boils
Chemist—C. C. Akers
Draftsman—C. C. Smith
Products—Railroad and commercial castings, rough and finished electric steel
Capacity—200 tons monthly
Railroads—A. T. & S. F., C. B. & O, Mo. Pacific

LOGAN IRON & STEEL CO., 807 Stephen Girard Bldg., Philadelphia, Pa. Plant: Burnham, Pa.
Pres.—Frank G. Kennedy, Jr.
Treas. and Asst. Sec.—Robert K. Jones
Sec. and Asst. Treas.—Frank G. Jones
Mgr.—Thos. Jameson

(At Burnham, Pa., Plant)

M. M.—Adam W. Fisher
Chemist—Edwin Thomas
Roll Designer—Wm. Bagnall
Gen. Foreman—Joseph Clark
EQUIPMENT—Puddle mill, 18-inch bar, 12-inch guide, 10-inch and 8-inch Belgian mill
PRODUCTS—Staybolt iron, engine bolt iron, chain iron, forging iron, special shapes
Capacity—45,000 tons per annum
Capital—$240,000
Railroad—Penna.

LOMBARD IRON WORKS & SUPPLY CO., Augusta, Ga.
Pres. and Treas.—Geo. R. Lombard
Vice Pres.—Geo. S. Lombard
Sec. and Gen. Mgr.—J. G. Belding
Pur. Agt.—E. J. Hamahan
Supt.—H. M. Leitner
Mech. Engr.—A. R. Nicholas
Foreman Machinist—W. S. Hair
Foreman Foundry—A. W. Kendrick
PRODUCTS—Gray iron castings, machine work, boiler work, mill supplies

LORAIN STEEL CO., THE, 545 Central Ave., Johnstown, Pa.
Pres.—Carroll Burton
Treas. and Sec.—P. M. Boyd
Asst. Treas. and Asst. Sec.—W. W. Grout
Pur. Agt.—C. F. Brandler
Gen. Supt.—C. R. Bossler
Ass. Gen. Supt.—W. Milt Brown
Supt. Steel Fdry.—Wm. J. Watkins
Chief Engr.—E. B. Entwisle
Mech. Engr.—Otto Sann
Elec. Engr.—G. H. McFeaters
Gen. M. M.—R. E. Paul
Safety Engr.—D. C. Thomas
Met. and Chemist—R. H. Noderer
Draftsman—H. C. Stiff
Foreman Mach.—John Glasson
Foreman Blacksmith—S. S. Blight
Insp.—E. M. Stutzman
Storekeeper—E. Heinrich
EQUIPMENT—Two 20-ton O. H. furnaces, two 3-ton electric Heroult furnaces
PRODUCTS—Commercial steel castings, alloy castings and track work castings and rolls
Capacity—15,000 gross tons
Capital—Authorized, $4,000,000; outstanding, $3,000,000
Railroads—Johnstown & Stony Creek R. R., Penn. and B. & O.

LOS ANGELES FOUNDRY CO., 2444 S. Alameda St., Los Angeles, Cal.
Pres.—Lee Chamberlain
Asst. to Pres.—Henry Chamberlain
Treas.—Mellen Chamberlain
Sec.—Stuart M. Salisbury
Asst. Sec. and Pur. Agt.—E. S. Atkins
Gen. Mgr. and Met.—C. B. Tibbetts
Gen. Supt.—J. C. Coffman
Asst. Gen. Supt.—B. G. Emmett
PRODUCTS—Steel castings
Capital—$50,000
Capacity—100 tons per month
Railroad—P. E.

LOUISVILLE FROG & SWITCH CO., 30th St., North of High Ave., Louisville, Ky.
Pres. and Gen. Mgr.—F. W. Carter
Treas., Sec. and Pur. Agt.—H. O. Wieland
Gen Supt.—J. S. Drillette
Chief Engr.—Thomas Berry
Gen. Foreman—Marshall Cranmer
PRODUCTS—Railroad track material
Capital—$150,000
Railroads—Connecting with K. I. Terminal with all lines in Louisville

LOW MOOR IRON CO., Low Moor, Va.
(Plant closed indefinitely)
J. L. Blizzard in charge
EQUIPMENT—Two blast furnaces
PRODUCTS—Foundry pig iron

LUDLUM STEEL CO., Lock Drawer, 38 Watervliet, N. Y.
Pres.—Edwin Corning
Vice Pres. Opr.—H. G. Batchellor
Treas.—Parker Corning
Asst. Treas.—I. J. Morris
Sec.—E. P. Gavitt
Pur. Agt.—F. S. Quick
Compt.—Wm. H. Tuck
Gen. Supt.—A. K. Martin
Asst. Gen. Supt.—J. D Kelley
Auditor—W. B. Davis
Supt. Roll Mill—E. A. Haskins
Chief Engr.—Knute Leander
Chief Elec. Engr.—R. M. Brooks
M. M.—F. Heft
Steam Engr.—Charles Dunbar
Met—R. P. DeVries
Chief Chemist—John T. Norton, Jr.
Safety Engr.—R. M. Holmes
Foreman Mach.—H. A. Harrington
Storekeeper—Wm Connelley
EQUIPMENT—Five rolling mills, 9-inch to 18-inch in size; 5 steam forging hammers half ton to 6-ton capacity; 10 annealing furnaces
PRODUCTS—Electric alloy and tool steel
Capacity—16,000 tons
Capital—$1,738,164; surplus, $2,048.807; stock issued, 135,000 shares no par value; bonds issued, $1,119,500
Railroads—D. & H., N. Y. C.

LUKENS STEEL CO., S. First Ave., Coatesville, Pa.
Chairman—A. F. Huston
Pres.—Robert W. Wolcott
Asst. to Pres.—D. S. Wolcott
Treas.—Geo. W. Thomas, III
Asst. Sec. and Asst. Treas.—J. W. Herman
Pur. Agt.—H. B. Spackman
Gen. Mgr. of Sales—F. H. Gordon
Asst. Gen. Mgr. of Sales—G. L Gordon
Gen. Supt.—W. H. Warren
Asst. Gen. Supt.—J. H. McElhinney
Supt O. H.—Kent Harrison
Asst. Supt. O. H.—J. D. Walters
Supt. Finishing Mills—R. W. Simpson
Brick Supt.—W. C. A. Busch
Chief Engr.—P. C. Haldeman
Elec. Engr.—W. H. Burr
Steam Engr.—M. J. Conway
Safety Engr.—G. K. Irwin
M. M.—W. C. Chapman
Met.—W. G. Humpton
Chemist—L. E. Jarvis
Chief Draftsman—A. R. Tegge
Machine Shop Supt.—Wm. Houser
Storekeeper—W. R. Widdoes
EQUIPMENT—84-inch mill, 112-inch mill, 140-inch mill, 206-inch mill and universal mill

PRODUCTS—Blue annealed sheets, steel boiler, tank and sheared plates; universal plates

LUNKENHEIMER CO., THE, Beekman St. and Waverly Ave., Cincinnati, O.
Pres.—Eshelby F. Lunken
1st Vice Pres. and G. M.—David C. Jones
3rd Vice Pres.—Alfred J. Jupp
Sec. and Asst. G. M.—Charles A. Brown
Treas.—Lawrence J. Bradford
Asst. Treas.—C. C. Isekeit
Works Mgr.—Geo. A. Seyler
Chief Engr.—Jerome J. Aull
Pur. Agt.—E. H. Korte
Steam Engr.—Jacob Walters
Chief Draftsman—Fred Hehemann
Chemist and Met.—J. W. Bolton
PRODUCTS—Steel, iron and bronze valves and engineering appliances

Mc

McCONWAY & TORLEY CO., THE, Pittsburgh, Pa. Office 48th St. and A. V. R. R. Plants: 48th St.
Pres.—Wm. McConway, Jr.
Vice Pres.—I. H. Milliken
Treas. and Sec.—G. W. McCandless
Gen. Supt.—T. A. Reynolds
Mech. Engr.—W. J. Regan
Elec. Engr. and M. M.—W. C. Buske
Draftsman—F. George, Jr.
EQUIPMENT—3 open hearth furnaces
PRODUCTS—Steel castings

McCORD RADIATOR & MANUFACTURING CO., East Grand Blvd. and Rioppelle Sts., Detroit, Mich. Plants: Plymouth, Ind.; Wyandotte, Mich., and Walkerville, Ont.
Pres.—A. C. McCord
Vice Pres. Treas. and G. M.—C. R Hammer
Vice Pres. Opr.—C. W. Owston
Vice Pres. Sales—P. L. Barter
Sec.—L. M. Hamlin
Pur. Agt.—J. Cooper
Works Mgr.—F. Hicks
Chief Engr.—J. Harris
Elec. Engr.—W. Morgan
Machine Shop Supt.—E. Hansen
Draftsman—J. Shaw
PRODUCTS—Radiators (automotive), condensers, gaskets, metallic asbestos, cork, force feed lubricators

McINNES STEEL CO., Ltd., P. O. Box 128, Corry, Pa.
Pres.—John J. McInnes
Treas. and Sec.—H. B. Smith
Gen. Supt.—James H. McInnes
M. M.—Geo. Flynn
EQUIPMENT—20-pot crucible furnace
PRODUCTS—Crucible and high speed steels
Railroads—Erie and Penna.

McKEESPORT TIN PLATE CO., McKeesport, Pa.
Pres. E. R. Crawford
Vice Pres. Sales—G. V. Parkins
Asst. Treas.—H. E. Houser
Sec. Treas.—H. H. Frey
Pur Agt.—C. M. Smith
Gen. Supt.—W. T. Browncombe
Supt.—R. H. Bell
Supt. Hot Mills—T. D. Sampson
Chief Elec. Engr.—G. H. Fish
Mech. Engr.—R. W. Watson
M. M. and Foreman Mach.—Aleck Patrick
Chief Chemist—W. H. Craighead
Safety Insp.—H. R. Hare
Storekeeper—Wm. Lamb
PRODUCTS—Tin plate, black plate and terne plate
Capacity—4,000,000 base boxes annually
Capital—$10,000,000; bonds issued, $6,000,000
Railroad—P. & L. E. exclusively

McMYLER INTERSTATE CO., THE. Northfield Road, Bedford, O.
Pres. and Gen. Mgr.—Robt. W. Kaltenbach
Vice Pres.—Geo. E. Titcomb
Treas. and Sec.—Elijah Bates
Pur. Agt.—E. F. Hammond
Sales Mgr.—M. E. Culhan
Supt.—L. E. Gulliford
Chief Engr.—E. A. Hennig
Struct. Engr.—Chas. Pichotts
Mech Engr.—C. W. Benjamin
Power Engr.—Thomas Barco
Elec. Engr.—A. E. Fritsche
Foreman Mach.—A. T. Fronek
Foreman Repairs—Paul Reichle
Foreman Mico Iron Fdry.—H. W. Farris
Foreman Bucket Shop—H. J. Boyes
EQUIPMENT—Steam, gas and electric shovels and cranes, gantry cranes, ore bridges, car dumpers, coaling towers, special material handling plants, material handling buckets, rubber machinery, hammered steel forgings, mico iron castings, and heavy machine work
Capital—30,000 shares non par common; 250,000 shares preferred; $1,199,000 now outsanding; $1,500,000 issued
Railroads—Penna. and W. & L. E.

M

MACHINED STEEL CASTING CO., 1450 So. Mahoning Ave., Alliance, O.
Pres.—W. H. Purcell
Vice Pres. and G. M.—W. E. Trump
Vice Pres. and Sales Mgr.—F. R. Donaldson
Sec.—F. E. Dussel
Treas.—J. B. Freer
Gen. Supt.—R. H. Donaldson
Supt. O. H.—R. M. Rubush
Mech. Engr.—D. C. Wilcox
Chemist—Thos Shively
PRODUCTS—Acid open hearth steel castings of all kinds
Capacity—950 tons per month
Capital—$1,000,000; issued, $670,000
Railroad—Penna.

MACKINTOSH-HEMPHILL CO., 12th St., below Penn Ave., Pittsburgh, Pa.
Plants: Pittsburgh (Ft. Pitt and Garrison); Midland, Pa.; Wooster, O.
Pres.—J. Ramsey Speer
Asst. to Pres. Charge Opr.—C. V. Wilt
Asst. to Pres. Opr.—A. H. Baum
Vice Pres.—F. Hughes Moyer
Treas. and Sec.—D. H. Baum
Asst. to Pres. and Asst. Sec.—James C. McFee
Pur. Agt.—F. K. Acker
Asst. Sales Mgr.—Wadsworth Doster
Mgr. Roll Sales—Fred Griffiths
Mgr. "Adamite" Sales—J. R. Patterson
Compt.—C. Howard Paul
Advt. Mgr.—D. L. Mathias
Chief Engr.—W. L. Ditges
Asst. Chief Engr.—W. R. Duda
Chief Draftsman—K. Barrard
Chief Elec. and Safety Engr.—C. S. Hagan

(At Pittsburgh, Pa., Ft. Pitt Plant)
Supt.—H. G. Smyers
Chief Clerk—J. C. Fix

(At Pittsburgh, Pa., South Side, Garrison Plant)
Chief Engr.—Wm. Ditges
Asst. Chief Engr.—W. R. Duda
Supt.—M. F. Ensslin
Met.—George Shaw
Chief Clerk—Albert Spreen
Gen. Foreman Fdry.—Harry Challingworth
Foreman Fdry.—George Lorz
Roll Shop—Axel Ericson
Pattern Shop—Clarence Franke
Mach. Shop—Wm. Stevenson
Elec. and Safety—C. G. Rudolph
Chief Chemist—James Croft
Chief Draftsman—K. Braarud
Storekeeper—C. C. Snyder
PRODUCTS—Chilled rolls and rolling mill machinery

(At Wooster, O., Woodard Plant)
Mgr.—H. B. Hatton
Supt.—H. D. Kuthe
Chief Clerk—R. S. Miller

(At Midland, Pa., Works)
Supt.—B. F. Parlett, Jr.
Foreman Steel Fdry.—C. J. Roller
Foreman O. H.—Wm. Ralph
Elec. Engr. M. M.—R. R. Miller
Chemist—A. G. Hartwick
Chief Clerk—Louis E. Kinsey

MAHONING VALLEY STEEL CO., THE, McKees Lane, Niles, O.
Pres.—W. Aubrey Thomas
Vice Pres. and Treas.—John P. Hosack
Sec.—John M. Thomas
Asst. Sec. and Pur. Agt.—Robert W. Wilson
Asst. Treas.—Geo. L. Wick
Gen. Supt.—H. C. Davis
Chief Elec.—E. R. Kagarise
M. M.—M. J. Maloney
Storekeeper—A. O. Wilson
EQUIPMENT—8 sheet mills
PRODUCTS—Steel sheets
Capacity—60,000 net tons
Railroads—Erie, Penna. and B. & O.

MALLEABLE IRON FITTINGS CO., Lock Drawer M., Branford, Conn.
Pres., Treas and Gen. Mgr.—Alfred E. Hammer
Asst. Treas. and Gen. Supt.—V. T. Hammer
Sec.—L. J. Nichols
Pur Agt.—H. E. Thatcher
Supt. Fdry.—L. G. Fitzpatrick
Supt. O. H.—C. H. Page
Mech. Engr.—G B Pickop
Elec. Engr. and Steam Engr.—J. B. Smith
Met.—W. E. Mumford
Chemist—O. A. Johnson

MANSFIELD SHEET & TIN PLATE CO., Mansfield, O.
Pres. and Treas.—Wm. H. Davey
1st Vice Pres. and Pur. Agt.—A. L Davey
2nd Vice Pres and G. M.—Samuel Davey
Sec. and Auditor—W. R. Jenkins
Asst. Pur. Agt.—N. W. Burneson
Gen Mgr. Sales—F. W. Beach
Spec. Representative—Charles H. Stamm
Gen. Supt. Sheet Mills—John Davey
Mgr. Elec. Sheet Dept.—Wm. J. Woolridge
Supt Finishing Dept.—James G. Davey
Supt. O. H.—C. W. Pierce
Chief Engr. and Supt. O. H.—F. A. Davey
Chief Elec.—Emil Zelenka
Mech. Engr. and M. M.—Thomas Davis
Safety Engr.—H. H. Henry
EQUIPMENT—19 rolling mills, 4 open hearth furnaces
PRODUCTS—Common and special finished sheet steel

MARINETTE BOILER WORKS, Church St., Marinette, Wis.
Prop.—F. E. Hunt
PRODUCTS—Electric welding, locomotive and machinery repairs, boilers, tanks, stacks, etc.
Railroads—C. & N. W., C. M. & St. P., Ann Arbor, W. & M.

MARION STEAM SHOVEL CO., THE, 617 West Center St., Marion, O.
Pres.—J. L. Ackers
Vice Pres. and Gen. Mgr.—Charles B King
Treas.—Frank A. Huber
Sec. and Asst. Treas.—Harry T. Bell
Gen. Supt.—Ray R. King
Supt.—J. Caulfield
Asst. Supt.—Emery Murphy
Pur. Agt.—Edward T Huber
Supt. O. H.—Wm. Johnson
Chief Engr.—J. K. Holmes
Met.—Harry Kinnear
Chemist—Ralph A. Young
Foreman Mach.—Harry Creasap
EQUIPMENT—One open hearth furnace, one electric furnace
PRODUCTS—Excavating machinery
Capacity—10,000 tons

MARSHALL, EDWARD E., Bullitt Bldg., Philadelphia, Pa. Operates Lochiel Furnace, Harrisburg, Pa.
Prop.—Edward E. Marshall

MARTIN METAL MFG. CO., 900 E. 2nd St., Wichita, Kan.
Pres. and Gen. Mgr.—F. W. Martin
Vice Pres. Sales—L. H. Martin
Treas. and Wks. Mgr.—T. W. Martin
Sec.—G. W. Martin
Pur. Agt.—F. W. Austin
PRODUCTS—Sheet metal for buildings and farm use
Incorporated—$300,000
Railroad—Private switch with all lines

MARTING IRON & STEEL CO., THE, Second and Vine Sts., Ironton, O.
Pres.—A. R. Johnson
Treas.—W. P. Lewis
Sec.—Margaret M. Reif
Gen. Supt.—C. B. Fowler
M. M.—Wm. Grant
Chief Chemist—H. H. Hopkins
Chief Elec.—Wm. Hughes
PRODUCTS—Basic, foundry and malleable pig iron
Capacity—Two plants total capacity approximately 825 tons
Capital—Authorized, $2,000,000; issued, $1,877,865
Railroads—N. & W. and C. & O. River loading equipment (just installed)

MASSILLON STEEL CASTING CO., Massillon, O.
Pres.—Clifford E. Pierce
Vice Pres., Gen. Mgr. and Pur. Agt.—A. H. Anthony
Treas.—I. M. Taggart
Sec.—F. O. Humberger, Jr.
Works Mgr.—C. E. Norfeldt
Supt. Steel Fdry.—W. T. Ahlquist
EQUIPMENT—Complete equipment for manufacturing steel castings by both the electric and converter processes
Capacity—3,600 tons annually
Capital—$500,000; issued, $300,000
Railroads—Penns., B. & O., W. & L. E.

MAYNARD ELECTRIC STEEL CASTINGS CO., 22nd Ave. and Kilbourne Rd., Milwaukee, Wis.
Pres. and Treas.—Sylvester J. Wabiszewski
Vice Pres. and Gen. Mgr.—Frank Wabiszewski
Gen. Supt.—Frank Meyers
Chief Engr. and Sales Mgr.—O. H. Schildknecht
PRODUCTS—Electric furnace steel castings

MAYVILLE IRON CO., (Subsidiary Youngstown Sheet & Tube Co.) Mayville, Wis.
Chairman—J. A. Campbell
Pres.—C. S. Robinson
Asst. to Pres.—H. G. Heedy
Vice Pres.—W. C. Reilly
Treas.—W. J. Morris
Sec. and Asst. Treas.—W. E. Menk
Pur. Agt.—C. T. Moke
Mgr.—J. H. Means
Asst. Mgr.—C. H. Heist
B. F. Supt.—W. C. Ratcliffe
Plant Engr.—C. J. Lechner
M. M.—Geo. Hollinsbery
Asst. M. M.—A. E. Mueller
Chemist—L. E. Mueller
Safety Insp.—W. W. Janzer
Electrician—J. J. Gray

MENOUGH FOUNDRY CO., Wellsville, O.
PRODUCT—Steel castings

MERCHANT & EVANS CO., 2025 Washington Ave., Philadelphia, Pa. Plant at Lancaster, Pa.
Pres.—Powell Evans
1st Vice Pres.—Thomas Evans
2nd Vice Pres.—James D. Evans
Treas. and Sec.—C. E. Hanna
Gen. Sales Mgr.—Wm. E. Waters

(At Lancaster, Pa.)
Gen. Supt.—P. F. Flamand
Chief and Mech. Engr.—M. P. Story
Chief Draftsman—Alex Wilson

MESTA MACHINE CO., P. O. Box 1124, Pittsburgh, Pa. Office and plant, West Homestead, Pa.
Pres.—H. F. Wahr
Vice Pres. and Treas.—J. O. Horning
Vice Pres. Opr.—Lorenz Iversen
Sales Mgr.—W. W. Powell
Asst. Sales Mgr.—Frank A. Mesta
Sec.—G. E. Townsend
Asst. Treas.—J. Edwards
Asst. to Sec.—J. M. Hutchinson
Pur. Agt.—J. B. Connally

(At West Homestead, Pa.)
Gen. Supt.—J. R. Berg
Asst. Gen. Supt.—L. W. Mesta
Supt. O. H.—R. J. Hill
Machine Shop Supt.—A. A. Reisman
Chief Engr.—L. Iversen
Asst. Chief Engr.—Chas. Raisig
Elec. Engr.—Carl Fischer
Plant Engr.—N. Leerburg
Safety Engr.—E. F. Harris
Met.—C. I. Neidringhaus
EQUIPMENT—Cupolas, air furnaces, open hearth furnaces, machine shops, pattern shops, forge shops, etc.
PRODUCTS—Gas and steam engines, including uni-flow type engines, heavy rolling mill machinery, hydraulic steam-hydraulic, and large power presses, condensers, vacuum pumps, pickling machines, sand iron, chilled iron, carbon steel, alloy steel, and alloy iron rolls; steel and iron castings, ingots, forgings, etc.

METAL ALLOYS, INC., Watervliet, N. Y.
Pres.—Edwin Corning
Vice Pres.—Hiland C. Batchelor
Vice Pres.—E. Palmer Garit
Treas.—Parker Corning
Sec. and Asst. Treas.—Irving I. Morris

PRODUCTS—Ferro-tungsten, chrome, vanadium
Capacity—600 tons annually

MICHIGAN STEEL CORP., 1212 Buhl Bldg., Detroit, Mich.
Chairman—Frank H. Jones
Pres. and Treas.—Geo. R. Fink
Vice Pres.—H. M. Steele
Asst. to Vice Pres. and G. M.—W. F. Cox
Sec.—E. R. Milburn
Asst. to Sec. and Pur. Agt.—L. S. Brown
EQUIPMENT—10 hot mills, 4 cold mills, 14 annealing furnaces
PRODUCTS—Sheet steel
Capacity—80,000 tons annually

MICHIGAN STEEL CASTING CO., 1986 Guion St., Detroit, Mich.
Pres. and Gen. Mgr.—R. F. Flinterman
Treas.—Hobart B. Hoyt
Sec. and Sales Mgr.—J. F. Monfils
Pur. Agt.—Lee J. Curtin
Gen. Supt.—F. J. Stanley
Supt. Steel Fdry.—Wm. Gordon
M. M. and Chief Elec. Engr.—G. E. Blagg
Supt. Elec. Steel, Chief Engr., Met.—Frank Trautman
EQUIPMENT—One 3-ton and one 1½-ton Heroult electric furnace
PRODUCTS—Electric steel castings, heat resisting alloy castings (Misco)
Capacity—500 tons small castings, average weight, 30 lbs.
Capital—$400,000
Railroads—Switching connections with all roads entering Detroit

MIDLAND COKE & IRON CORP., Succeeds St. Louis Coke and Iron Co. Plant: Granite City, Ill.
Chairman—Leonard A. Busby
Pres.—W. G. Maguire
Vice Pres. and G. M.—D. M. Currie
Treas.—Andrew Mann
Sec.—P. D. Nelson
Gen. Sales Mgr.—W. G. Strom

MIDVALE CO., THE, Nicetown, Philadelphia, Pa.
Pres.—A. C. Dinkey
Asst. to Pres.—J. L. Cox
Vice Pres. Opr.—H. L. Frevert
Vice Pres. Sales—Stuart Hazlewood
Treas. and Sec.—J. M. Milliken
Pur. Agt.—J. P. Coonahan
Gen. Supt.—Francis Bradley
Supt. O. H. and Forging Plants—Radclyffe Furness
Supt. Mill—H. M. Givens
Supt. Tire Mill—C. F. Tietze
Supt. Heat Treating—J. H. Campion
Supt. Special Products—J. R. Adams
Supt. Research—F. B. Foley
Supt. Machine Shop—J. E. Strachan
Supt. Fdry.—C. W. Yost
Chief and Mech. Engr.—John L. Cox
Plant Engr.—R. F. Gale
Asst. Chief Elec. and Asst. Mech. Engr.—W. Butler, Jr.
Engr. Tests—H. C. Myers
Chief Draftsman—G. Ericsson
Safety Engr.—John B. Mudd
Storekeeper—C. R. Lobs
PRODUCTS—Locomotive driving tires, car wheel tires, roll shells and grinding rings for mining and cement machinery, solid and hollow forgings, iron and steel castings, bar steel, ordnance armor plate

MILBURY STEEL FDRY. CO., Milbury Mass.
Pres. and Gen. Mgr.—Wm. W. Brierly
Treas.—Fred W. Moore
Asst. Treas.—Robert C. Travers
Sec. and Asst. Gen. Mgr.—Wm. F. Chase
EQUIPMENT—One 2-ton Heroult electric furnace
PRODUCTS—Electric steel castings
Capacity—1,200 tons per year
Capital—$98,800

MILTON IRON CO., Wellston, O.
Pres.—H. S. Willard
Treas., Sec. and Gen. Supt.—H. S. Willard, Jr.
EQUIPMENT—One blast furnace
PRODUCT—Ferro-silicon
Capacity—18,000 tons annually

MILWAUKEE STEEL FOUNDRY CO., 101-131 So. Water St., Milwaukee, Wis.
Pres. and Gen. Mgr.—B. C. Wait
Vice Pres.—F. A. Weiss
Treas.—A. G. Eissler
Sec.—A. Gropper
Pur. Agt.—I. A. McIntyre
Works Mgr. and Met.—A. T. Baumer
M. M. and Elec. Engr.—James Daley
EQUIPMENT—Basic electric melting, electric heat treating
PRODUCTS—Carbon steel and alloy steel castings
Capacity—6,000 tons annually
Capital—$250,000; issued, $177,300
Railroads—Chicago & Northwestern, switch tracks in plant

MINNEAPOLIS ELECTRIC STEEL CASTING CO., 38th Ave., N. E. and 5th St., Minneapolis, Minn.
Pres. and Gen. Mgr.—S. V. Wood
Treas.—G. L. Fort
Sec. and Pur. Agt.—R. A. Wood
Gen. Supt.—B. P. Haller
M. M.—Wm. D. Kuszler
Met.—J. Trantin, Jr.
Storekeeper—Gordon Bixler
EQUIPMENT—Two electric furnaces
PRODUCTS—Steel castings
Capacity—3,000 tons annually
Railroad—Soo Line (truckage)

MINNESOTA STEEL CO., Morgan Park, Duluth, Minn. (Subsidiary of U. S. Steel Corp.)
Pres., Vice Pres. and G. M.—S. B. Sheldon
Vice Pres. Sales—Edwin S. Mills, Chicago, Ill.
Sec.—W. J. Filbert, New York City
Treas.—G. L. Edwards, New York City
Pur. Agt.—C. H. Rhodes, Chicago, Ill.
Gen. Supt.—L. C. Reis

Supt. B. F.—W. J. Mullins
Supt. O. H.—M. A. Hill
Supt. Bloom. and Rail Mill—G. G. Reis
Machine Shop Supt.—H. E. Frenette
Brick Supt.—J. P. McLimans
Chief Engr.—K. C. Hoxie
Elec. Engr.—P. R. Canney
Steam Engr.—W. R. Cornish
Safety Engr.—A. C. Germain
M. M.—H. C. Jones
Met.—R. C. Weed
Chemist—G. H. Halvorson
Storekeeper—H. D. Davidson

MISSOURI ROLLING MILL CORP., 6800 Manchester Ave., St. Louis, Mo.
Pres. and Treas.—L. E. Fischer
Vice Pres. Opr.—D. C. Lee
Vice Pres.—Carl Bauer
Sec. and Asst. Treas.—Chas. Dettenwanger
Asst. to Sec.—C. C. Denniston
PRODUCTS—Manufacturers of rail steel products
Railroads—On main line Mo. Pac. R. R. Co.

MITCHELL-DIGGINS IRON CO., Cadillac, Mich.
Pres.—Charles T. Mitchell
Vice Pres.—W. L. Saunders
Treas. and Gen. Mgr.—Joseph C. Ford
Sec.—George C. Brown
EQUIPMENT—One blast furnace
PRODUCTS—Lake Superior charcoal pig iron
Capacity—36,000 tons per annum
Capital—$200,000
Railroads—Penna., Ann Arbor

MOHR & SONS, JOHN, 96th and Calumet River, Chicago, Ill.
Pres.—Albert Mohr
Vice. Pres. and Pur. Agt.—Edward Mohr
Treas.—Wm. J. Mohr
Sec.—Chas. E. Schramm
Supt. and Chief Engr.—Wm. G. Born
PRODUCTS—Blast furnaces, hot stoves, metal mixers, boilers and steel plate work of all kinds
Capacity—5,000 tons

MOLTRUP STEEL PRODUCTS CO., Second Ave. and 14th St., Beaver Falls, Pa.
Pres. and Gen. Mgr.—J. T. Moltrup
Vice Pres. and Asst. Treas.—F. F. Ward
Asst. to Vice Pres.—G. B. Sheers
Treas. and Sec.—J. A. Phillips
Pur. Agt.—W. B. Braden
Gen. Supt.—J. F. Moltrup
Asst. Gen. Supt.—C. T. Small
Draftsman—O. C. Grossglass
PRODUCTS—Shafting, cold drawn steel, special steel shapes, machine rack, machine keys, pattern and engraving plates, core plates and discs
Railroads—Penna., and P. & L. E.

MOLYBDENUM CORP. OF AM., 908 Empire Bldg., Pittsburgh, Pa. Plant: Washington, Pa.
Pres.—J. W. Weitzenkorn
Treas. and Sec.—James S. Crawford
Asst. Treas.—Wm. B. Kuntz
Sales Mgr.—Clifton Taylor

(At Washington, Pa., Plant)
Works Mgr.—E. A. Lucas

(At Red River Mine, New Mexico)
Supt.—J. B. Carman
PRODUCTS—Tungsten concentrates, ferro tungsten, molybdenite concentrates, ferro molybdenum, molybdenum salts, calcium molybdenum silicate, calcium molybdate

MONARCH FOUNDRY CO., Sacramento and Oak Sts., Stockton, Cal.
Pres., Gen. Mgr. and Pur. Agt.—E. H. Noack
Vice Pres.—F. A. Meyer
Treas. and Sec.—R. E. Noack
Gen. Supt.—G. A. Damon
Supt. Fdry.—J. Biankini
EQUIPMENT—Electric steel, iron and bronze furnaces, pattern and machine shops
PRODUCTS—Electric steel, iron and bronze castings, machine work
Capacity—20 tons steel, 20 tons iron, 3 tons non-ferrous castings daily
Capital—$25,000; issued, $20,425
Railroads—U. P., S. P., Santa Fe and C. N. & J.

MONARCH STEEL CASTINGS CO., 316 Solvay Ave., Detroit, Mich.
Pres.—James T. McMillan
Vice Pres. and G. M.—E. L. Nelson
Sec. and Treas.—James R. Coulter
Pur. Agt.—W. H. Frederick
PRODUCT—Steel castings
Capacity—7,000 tons annually

MONONGAHELA IRON & STEEL CO., First Natl. Bank Bldg., Pittsburgh, Pa. Plant: Paden City, W. Va.
Pres.—W. B. Eichleay
Vice Pres.—J. H. Hillman, Jr.
Vice Pres.—A. B. Sheets
Vice Pres. Sales—J. B. Armstrong
Sec.—Thomas Watson
Treas.—J. K. Scott

(At Paden City, W. Va.)
Works Mgr.—Gordon C. Grace
EQUIPMENT—20-inch muck mill; 18-inch bar mill; 10-inch guide mill; 3 heating furnaces
PRODUCTS—Stay bolt, engine bolt and other high grade iron from hand-puddled muck bar

MONONGAHELA TUBE CO., Ferguson Bldg., Pittsburgh, Pa. Plant: Wilson, Pa.
Pres. and Treas.—Hugh H. Davis
Vice Pres. and Sec.—J. V. Hurd
Asst Sec. and G. M.—Wm. M. Culbertson
Pur. Agt.—Geo. A. Helms
PRODUCTS—Charcoal iron, steel and Armco ingot iron, boiler and condenser tubes and oil line pipe and oil well tubing

(At Wilson, Pa, Plant)
Gen. Supt.—Jno. W. Best
Night Supt.—R. L. Best
M. M.—August Johnston

MONROE STEEL CASTING CO., Monroe, Mich.
Pres. and Gen. Mgr.—Carl F. Clarke
Vice Pres.—Bruce H. Wark
Treas. and Sec.—E. B. Busby
Pur. Agt.—Paul Geigenmueller
PRODUCTS—Electric steel castings
Capacity—200 tons
Capital—$300,000; issued, $132,500
Railroads—N. Y. C. and Pere Marquette sidings

MONTPELIER FOUNDRY & MACHINE CO., Montpelier, Ind.
Pres.—G. Max Hofmann
Asst. to Pres. and Gen. Mgr.—G. H. Kelsay
Treas.—Max B. Fisher
Asst. Treas.—Clarence R. Levy
Sec.—Wm. L. Moelbering
Gen. Supt.—Thos. Johnson
PRODUCTS—Grey iron and semi-steel castings
Capacity—25 tons
Railroads—N. Y. C., St. L., and Union Traction Co.

MORGAN CONSTRUCTION CO., 15 Belmont St., Worcester, Mass. Plants: Four, one each at 15 Belmont St., Crescent St., 19 Summer St., and 19 Union St., Worcester, Mass.
Pres. and Treas.—Paul B. Morgan
Vice Pres.—Victor E. Edwards
Vice Pres.—Jerome R. George
Asst. Treas.—Charles F. Morgan and Philip M. Morgan
Sec.—Carroll C. Smith
Pur. Agt.—Robert L. Mason
Gen. Supt.—Oscar W. Johnson
Asst. Gen. Supt.—Birge S. Dayton
Chief and Mech. Engr.—John W. Sheperdson
Asst. Chief Engr.—James A. Buell
Elec. Engr.—Fred B. Crosby
Draftsman—Joseph M. Malley
PRODUCTS—Rolling mills and wire mills producer gas machines, Isley reversing valves, Isley furnace control
Capital—$700,000
Railroads—Crescent St. siding B. & M., B. & A., N. Y. N. H. & H., Union St. siding

MORGAN ENGINEERING CO., THE, Alliance, O.
Pres.—W. H. Morgan
Vice Pres. Sales—A. F. Morris
Vice Pres. and Chief Engr.—C. L. Taylor
Treas.—T. D. Russell
Sec. and Compt.—Charles H. Birr
Pur. Agt.—T. Buchanan
Gen. Mgr.—W. J. Stoop
PRODUCTS—Cranes of all kinds; rolling mill equipment

MUNDIE MANUFACTURING CO., THE, (Formerly Brunner Machinery Co.,) 501 Brunner St., Peru, Ill.
Pres.—Geo. W. Mundie
Vice Pres.—J. C. Mundie
Sec. and Treas.—Harvey Mundie
Supt.—S. E. Noles
Fdry. Foreman—C. A. Hasse
PRODUCTS—Portable air compressors, etc.

MUSCONETONG IRON WORKS, Stanhope, N. J.
Pres.—Douglas Alexander
Vice Pres.—F. A. Park
Sec.-Treas.—T. T. Grovar
Pur. Agt.—E. Bryce
Supt.—W. G. Taylor
EQUIPMENT—Blast furnace, three stoves
PRODUCT—Pig iron
Capacity—50,000 tons annually
Fuel—Coke
Railroads—D. L. & W.

MYERS CO., THE H. M., Ames and Crystal Sts., Anderson, Ind. (Subsidiary Ames Shovel & Tool Co.)
Mgr.—Edwin T. Nipher
Power Plant Engr.—David Niblock
Foremen—J. W. Boerner, W. H. Redd and C. R. Abbott

MYSTIC IRON WORKS, 250 Stuart St., Boston, Mass. Furnace: Everett, Mass.
Chairman—W. E. McKay
Pres. and Gen. Mgr.—T. W. Kennedy
Treas.—C. A. Alden
Asst. Treas.—R. W. Stewart
Sec.—A. S. Bull
Pur. Agt.—J. A. Roche
Sales Mgr.—H. T. Outwater

(At Everett, Mass., Plant)
Gen. Supt.—H. J. Briney
Steam Engr.—W. A. Edmundson
Master Mech.—F. Kennedy
Chemist—L. B. Patterson
Storekeeper—D. Greene
PRODUCTS—Machine cast pig iron
Capacity—500 tons per day
Railroads—B. & O., B. & M., Water Shipments

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NAPIER IRON WORKS, 611-613 4th and 1st Natl. Bank Bldg., Nashville, Tenn. Furnace: Napier. Ore mines: Iron City, Tenn.
Chairmna—W. R. Cole
Pres. and G. M.—Wm. H. Lindsay
Vice Pres.—Dempsey Weaver
Sec.-Treas.—R. M. Davis
Storekeeper—W. F. Hickerson at Napier, Tenn.
(Furnace and mines not operating)
PRODUCT—Pig iron
Capacity—100 tons daily
Capital — $300,000; issued, $260,400; Bonds issued, $243,000
Railroad—L. & N.

NATIONAL AIR FILTER CO., 5130 Ravenswood Ave., Chicago, Ill.
Pres. and Gen. Mgr.—J. L. Harpham
Vice Pres., Opr. and Chief Engr.—H. E. Birkholz
Treas. and Sec.—R. W. Barry
Pur. Agt.—J. Whetstone
Gen. Supt.—W. G. Frank
PRODUCTS—Automobile air filters
Capital—$24,000
Railroads—Spur tracks, middle division, C. & N. W.

NATIONAL ALLOY CO., 25th and Dickinson Sts., Philadelphia, Pa.
Pres.—Henry P. Miller
Vice Pres.—F. O. Miller
Sec. and Treas.—Wm. J. Miller
PRODUCTS — Manganese copper, ferromanganese, silicon, chrome.

NATIONAL CAR COUPLER CO., Attica, Ind.
Pres. and Gen. Mgr.—J. W. Harrison
Vice Pres. and Works Mgr.—R. J. Harrison
Treas.-Sec. and Sales Mgr.—G. W. Harrison
Pur. Agt.—W. E. Albert
Gen. Supt.—W. G. Kirkman
Supt. O. H.—George Walters
M. M.—Marvin Eckhart
Chemist—W. H. Woodhall
PRODUCTS—Acid open hearth steel castings, passenger car couplers and repair parts, mine car couplers, Hinson emergency knuckles

NATIONAL DRAWN STEEL CO., THE, East Liverpool, O.
Pres. and Gen. Mgr.—J. C. Kelly
Vice Pres.—Patrick McNichol
Treas., Sec., Pur. Agt. and G. M.—R. H. Perry
Asst. Gen. Mgr.—E. S. Glaser
Met.—John Duncan
Chem.—B. Ginsberg
PRODUCTS—Cold drawn steel in rounds, hexagons, squares, flats and special shapes

NATIONAL ENAMELING AND STPG. CO. Gen. offices, 425 East Water St., Milwaukee, Wis. Plants: Granite City, Ill.; St. Louis, Mo.; Milwaukee, Wis.; Baltimore, Md.; Chicago, Ill.; New Orleans, La.; Philadelphia, Pa.
Chairman—George W. Niedringhaus, Granite City, Ill.
Pres.—A. J. Kieckhefer
Vice Pres. Sales—C. N. Turner
Vice Pres. — William H. Matthai, Baltimore, Md.
Treas. and Asst. Sec.—Robert Miller
Sec. and Comptroller—Conrad M. Fox
Gen. Mgr. Steel Works—Hayward Niedringhous, Granite City Ill.
Pur. Agt.—A. R. Curtis
G. M. Steel Sales—Lawrence F. Miller, Granite City
Pur. Agt. Steel Mills — J. W. Hargate, Granite City
Gen. Mgr. Steel Wks.—Hayward Niedringhaus, Granite City

(At Granite City, Ill., Works)
Gen. Supt.—W. W. Hanlon
Asst. Gen. Supt.—Philip Stremmel
Prod. Mgr.—A. W. Niedringhaus
Supt. O. H.—J. W. Mills
Supt. Finishing Dept.—B. Johnston
Supt. Blooming Mills—C. Baechtold
Machine Shop Supt.—Victor Euler
Brick Supt.—Marion Pais
Chief Engr.—E. H. Werner
Asst. Chief and Mech. Engr.—E. Wahlert
Chief Elec. Engr.—John Delaney
M. M.—Julius Schill
Met.—W. E. Buck
Chief Draftsman—R. Barr
Chief Chemist—C. E. Cromer
Safety Insp.—F. Nichols
Storekeeper—J. W. Hargate
EQUIPMENT—10 open hearth furnaces, bar mill, plate mill
PRODUCTS — Plates, black sheets, blue annealed, galvanized and tin plate
Capacity—380000 tons of ingots
Railroads—Wabash, Terminal, Ill. Traction

NATIONAL FOUNDRY CO., Erie, Pa.
Pres.—E. W. Sheldon
Treas.—A. H. Willis
Sec.—A. W. Reichert
Pur. Agt.—C. J. E. Burghart
EQUIPMENT — Two 25-ton acid open hearth furnaces, 1 electric furnace
PRODUCTS—Steel castings, cut gears
Capacity—15,000 tons annually
Capital—$600,000
Railroads — Penna., N. Y. C., Bessemer, Nickel Plate

NATIONAL LOCK WASHER CO., 40 Hermon St., Newark, N. J., Rolling Mill at Riverside, N. J.
Pres.—Cyrus H. Loutrel
Vice Pres.—Robert D. Reynolds
Treas. and Sec.—James D. Cowan
Asst. Sec.—Harold T. Moffett
Pur. Agt.—Fred C. Dodd
Sales Mgr.—T. H. Horn
Gen. Factory Mgr.—Robert F. Golden
Supt.—T. G. Conway, Jr.
Chief Plant Engr.—T. G. Conway, Jr.
Foreman Mach. Shop—F. Freeman
Foreman—T. F. O'Brien
EQUIPMENT—Six board drop hammers, lock washer fabrication equipment, steel treating equipment, equipment for manufacture of car windows, equipment and machining of forgings
PRODUCTS—Spring washer, spring steel car window equipment, drop forgings, screw machine products
Capital—$1,000,000; issued, $500,000

(At Riverside, N. J., Plant)
Supt. Rolling Mills—F. R. McCrudden
Roll Designer—George Fair
Foreman—E. Bergmann
EQUIPMENT—Belgian mill, 14-inch and 9-inch trains
PRODUCTS—Hot rolled rounds, squares and special shapes
Capacity—3,600 tons annually

NATIONAL MALLEABLE AND STEEL CASTINGS CO. General offices: 10600 Quincy Ave., S. E., Cleveland, O. Plants: Cleveland, O.; Chicago, Ill.; Cicero, Ill.; Indianapolis, Ind.; Toledo, O.; East St. Louis, Ill.; Sharon, Pa.; Melrose Park, Ill.
Chairman—E. L. Whittemore
Pres.—Henry F. Pope
Vice Pres.—Samuel Lewis Smith, W. G. Kranz and O. W. Loomis
Treas. and Sec.—E. W. Whittemore
Asst. Treas.—Cleveland H. Pomeroy
Asst. Sec.—R. L. Lehman
Compt.—C. T. Lonney
Met.—H. A. Schwartz
PRODUCTS—Malleable iron and steel castings, automatic car couplers, friction draft gears, grate bars for sintering machines, chain and cast steel for steam shovels

(At Indianapolis, Ind., Plant)
Mgr.—C. C. Gibbs

(At Sharon, Pa., Plant)
Mgr.—J. P. Kittredge

NATIONAL ROLL & FOUNDRY CO., Avonmore, Pa.
Pres., Treas. and G. Mgr.—William Goudy
Vice Pres., Sec. and Pur. Agt.—D. H. Slonaker
Asst. Treas.—F. J. Kaib
Asst. Gen. Mgr.—A. J. Baird
Chief Engr.—O. Frykman
Met.—G. H. Aupperle
Foreman Machinist—George Earhart
EQUIPMENT—Foundry and machine shop
PRODUCTS—Rolls and rolling mill machinery
Capital—$500,000
Railroad—Penna.

NATIONAL STEEL CASTING CO., Montpelier, Ind.
Pres. and G. M.—G. Max Hofmann
Vice Pres.—John M. Laudenberger
Treas.—F. E. W. Scheimann
Sec. and Pur. Agt.—Glen Ayers
Supt. O. H.—Henry Leon
EQUIPMENT—Two 15-ton acid open hearth furnaces, four 8-pot crucible furnaces
PRODUCTS—Steel castings
Capacity—5,000 gross tons per annum
Capital—$400,000
Railroads—Nickel Plate and Union Traction

NATIONAL STEEL FABRIC CO., Union Trust Bldg., Pittsburgh, Pa. (Subsidiary of Pittsburgh Steel Co.) Plant, Monessen, Pa.
Pres.—Homer D. Williams
Vice Pres.—Emil Winter
Vice Pres.—Edw. H. Bindley
Treas.—Wm. C. Reitz
Asst. Treas.—Wm. L. Rowe
Sec.—H. J. Miller
Asst. Sec.—Ray Maxwell
Pur. Agt.—Robert McMillan

(At Monessen, Pa., Plant)
Supt.—A. C. Johnson
Asst. Supt.—Joseph Johnston
Night Supt.—W. J. Huston
PRODUCTS—Bright and galvanized wire fabric reinforcement for roads, streets and buildings: Steeltex for plaster, Steeltex for stucco, Steeltex for Concrete, and gypsum floors and roofs

NATIONAL STEEL FOUNDRIES, Belleview Place and River, Milwaukee, Wis.
Pres.—R. P. Tell
Vice Pres. Sales—W. L. Berghofer
Treas.—J. E. Hubel
Sec.—W. J. Boyle
Pur. Agt.—R. E. Wilson
Works Mgr.—E. H. Hinkens
Gen. Supt. Steel Fdry.—F. E. McIntyre
Gen. Supt. Iron Fdry.—C. Schick
Chief Engr.—P. L. Crittenden
Mech. Engr.—B. S. Aikman
M. M.—H. Schroeder
Steam Engr.—J. J. Richards
Met.—R. C. Woodward
EQUIPMENT—Two 25-ton acid open hearth furnaces, two cupolas
PRODUCTS—Miscellaneous open hearth steel and gray iron castings
Capacity—10,000 tons steel castings, 6,000 tons iron castings annually

NATIONAL TRANSIT PUMP & MACHINE CO., Oil City, Pa.
Pres. and Gen. Mgr.—F. D. Williams
Vice Pres.—C. C. Baker
Treas.—L. C. Longaker
Asst. Treas.—Joseph Contino
Sec.—F. G. Zimmerman
Pur. Agt.—C. M. Holbrook
Sales Mgr.—N. A. Newton
Gen. Supt.—J. P. Coffman
Asst. Gen. Supt.—J. A. Angave
Supt. O. H. and Steel Fdry.—E. Jarn
Chief Engr.—J. M. Sharp
Asst. Chief Engr.—J. Glen Beighley
Chief Elec.—H. U. Wagner
Met.—Paul V. Klein
Safety Engr.—George F. Dennett
Foremen Mach.—B. E. Thurston and Geo. Burnett
EQUIPMENT—Two machine shops, two foundries
PRODUCTS—Gas and oil engines, power and stationary pumps, engineers, founders and machinists
Capacity—Normal, 1,600 men
Railroads—Erie, N. Y. C., Penna.

NATIONAL TUBE CO., Frick Bldg., Pittsburgh, Pa.
Pres.—Taylor Allderdice
Asst. to Pres.—Thomas Ewing
Vice Pres.—John H. Nicholson
Vice Pres.—P. C. Patterson
Asst. Vice Pres.—G. P. McNiff
Asst. to Vice Pres.—S. M. Lynch
Asst. to Vice Pres.—Thomas D. Davies
Asst. to Vice Pres.—Wm. M. Hogg
Treas.—H. J. Hirshman
Asst. Treas.—John W. McKee
Asst. Treas.—J. F. Cochran
Sec. and Auditor—B. C. Moise
Asst. Sec. and Asst. Auditor—H. C. Cushwa
Cashier—M. S. Cox

Gen. Mgr. Sales—J. J. Kennedy
Asst. Gen. Mgr. Sales—D. H. Ramsbottom
Met. Engr.—F. N. Speller
Fuel Engr.—Alfred Steinbart
Power Engr.—Bryant Bannister
Pur. Agt.—G. G. Goe
Traffic Mgr.—J. M. Morris
Special Agt.—John Fritz
Claim Agt.—George N. Riley
Chief Order Dept.—John A. Caughey
Adv. Mgr.—W. L. Schaeffer

(Pittsburgh Works, Pittsburgh, Pa., Pennsylvania Department, 2222 Second Ave.; Continental Department, 4124 Second Ave.; Republic Department, 24th and Sidney)
Mgr.—Andrew Telfer
G. S.—Max Rosenkranz

(At Continental Dept.)
Mgr.—Andrew Telfer
Gen. Supt.—Max Rosenkranz
Supt.—Thomas Mathers
Chief Clerk—E. O. Whitley
Chief Electrician—Jacob Nusser
Foreman Mach. Shop—Neil Duncan
Steam Engr.—A. M. Ladley
Chief Draftsman—A. M. Surenda
Safety—B. D. Peters
Roll Designer—Thomas Wheeler
Brick Supt.—James Cavanaugh
Storekeeper—John Burns

(Pennsylvania Dept.)
Supt.—Jos. E. Baines
M. M.—David H. Jones
Power Engr.—W. T. Montague
Chief Draftsman—A. B. Nesbitt

(Republic Dept.)
M. M.—James T. Shelton

(At McKeesport, Pa., National Works)
Mgr.—W. A. Cornelius
Supt. B. F. Steel Wks. and Skelp Mill—M. R. Stevenson
Supt. B. F.—A. H. Wardwell
Asst. Supt. B. F.—John F. Haddow
Gen. Foreman B. F.—M. A. Halleran
Supt. Steel Wks.—George E. Hitchens
Asst. Supt. Steel Wks.—F. W. Alles
Supt. Skelp Wks.—H. N. Pendleton
Asst. Supt. Skelp Wks.—James Simpson
Supt. Pipe Mills—George Duncan
Asst. Supt. Pipe Mills—Harry C. Herpel
Supt. Lap Mills—Charles F. Boax
Supt. Butt Mills—Jas. W. Duncan
Civil Engr.—Harry J. Alverson
Steam Engr.—Frank W. Schultz
Chief Engr.—J. J. Boax
Asst. Chief Engr.—August H. Ziegler
Met.—G. M. Goodspeed
Asst. Met.—M. J. Connelly
Chemist—T. M. Hopke
M. M.—John C. Schultz
Asst. M. M.—I. G. Ruby
M. M. Skelp Mills—Joseph R. Skewis
M. M. Pipe Mills—John Snedden
Supt. Electric Dept.—W. T. Snyder
Asst. Supt. Elec.—D. Scully
Asst. Supt. Elec.—F. R. Patterson
Supt. Coupling Dept.—H. M. Johnston
Supt. Galvanizing Wks.—H. B. Lynch
Asst. Supt. Galvanizing Wks.—E. H. Kleckner
Chief Order Dept.—C. H. Starr
Asst. Supt. Safety, Welfare and Employment—A. B. Holmes
Employ. Supt.—M. C. Taylor
Chief Safety—J. B. Ayres
Chief Clerk—T. H. Fox
Supt. McKspt. Con. Ry.—J. C. Gorman
PRODUCT—Welded Tubular

(At McKeesport, Pa., Christy Park Works)
Mgr.—George A. Reuff
Supt. Hammer Weld Dept.—B. S. Robinoff
Supt. Seamless Tubes—A. S. Johnston
Chief Engr.—C. F. Anderson
M. M.—John McMillan
Mech. Engr.—Charles F. Anderson
Chief Clerk—Jas. McGettigan
Elec. Engr.—William O. Thurby
Engr. of Tests—D. C. Erickson
Gen. Foreman Hot Mills—George Rabold
Gen. Foreman Job Work Depts.—F. N. Sarber
Gen. Foreman Finish. Dept.—H. S. Jaycox
Gen. Foreman Hammer Weld Dept.—S. E. Paine
Safety Engr.—Wm. B. Cooley
PRODUCTS — Seamless tubes and cylinders, hammer welded pipe and seamless coupling forgings

(At Ellwood Works, Ellwood City, Pa.)
Mgr.—J. J. Dunn
Supt. of Prod.—J. W. Offutt
Asst. Supt. of Prod.—S. Findlater
Supt. Bar Mill—J. E. Powell
Supt. Hot Mills—M. M. Osborne
Supt. Cold Drawn—Geo. C. Nicklas
Supt. Finish. Dept.—H. E. McClymonds
Mech. Engr.—J. W. Baxter
M. M.—W. B. Hampton
Supt. Power—J. D. Lindstrom
Supt. of Emp., Cas. Safety and Welfare—H. N. Wasser
Supt. Shops—W. B. Hampton
Met.—C. E. Wright
Chief Clerk—W. R. Johnston
Supt. Insp.—C. K. Morrow

(At Lorain, O., Works)
Mgr.—Charles Fell
Supt. B. F., Ore Docks, Coke Plant—Earl W. Brown
Supt. B. F.—J. Lester Mauthe
Supt. Docks—R. J. Aspin
Supt. Coke Plant—Leman E. Doty
Supt. Steel Wks. and O. H.—I. R. Williams
Supt. Rolling Mills—George C. Farkell
Supt. Blooming Mills—Wm. H. Thomas
Supt. Skelp Mills—Howard D. Cook
Supt. Pipe Mills—James J. Dillon
Asst. Supt. Pipe and Tube Mills—D. H. Pinkney
Supt. Lap Mills—F. J. Borie
Supt. Butt Mills—W. T. Mahla
Supt. Shops—David Heggie
Supt. Fdry.—George F. Stoney
Supt. Power Plant—Charles Bleyer
Supt. Brick Constr.—John J. Jelley
Supt. Eng. Mech. Dept.—George T. Snyder

Civil Engr.—Hardy D. Biggs
Supt. Elec. Dept.—Edwin H. Wentz
Mech. Engr.—Herman Snyder
Metl. Engr.—Wm. C. Chancellor
Chief Chemist—W. B. N. Hawk
Chief Order and Shipping—Alex T. Hill
Supt. Casualty, Safety and Employment—John L. Chapman
Chief Clerk—A. P. Bates
Supt. Lake Terminal R. R. — Frank T. Horan

(At Riverside Works, Wheeling, W. Va.)
Mgr.—Thomas A. Beattie
Supt. Blast Fur., Steel Works and Skelp Mills—Geo. W. Hewitt
Supt. Blast Fur.—B. S. Wohlegemuth
Asst. Supt. Steel Wks.—P. Shaffer Piper
Supt. Pipe and Tube Mills—T. C. Beattie
Chief Engr.—John Bayne
Asst. Chief Engr.—Russell R. Throp
M. M.—Thomas L. Donahie
Supt. Elec. Dept.—Wm. N. Inbody
Supt. Mech. Depts., Pipe Mills—Otto W. Steindorf
Chemist—Frederick H. Williams
Engr. Tests—Joseph A. Knesche
Supt. Safety, Welfare & Emp. — August Duga
Chief Clerk—H. N. Nichols

NEWARK TUBE CO., 560 Ferry St., Newark, N. J.
Pres., Treas. and G. M.—W. B. Franklin
Vice Pres.—Oscar H. Merz
Sec.—Flora A. Gash
Pur. Agt.—C. J. Brennan
Gen. Supt.—Fred J. Jacobs
Asst. Gen. Supt.—George Plant
Chief Engr.—Michael Breen
PRODUCTS — Steel tubing and kindred products; brazed, butted and oxy-acetylene welded in different shapes, special tubing, and bending to B/P
Capacity—30,000 feet butted, brazed and welded
Incorporated—
Railroads—Siding C. R. R. of N. J., convenient to all others

NEWBOLD & SONS CO., R. S., Norristown, Pa.
Pres.—R. S. Newbold
Vice Pres., Treas. and Pur. Agt.—J. D. Newbold, Jr.
Vice Pres., Gen. and Sales Mgr.—L. R. Hillyard
Sec.—W. B. Beyer
Chief Engr.—A. H. Long
PRODUCTS—Steel plate construction, tanks, stacks, rolling mill machinery
Capacity—3,000 tons machinery and 4,000 tons steel plate work annually
Railroads—Reading siding

NEW ENGLAND HIGH CARBON WIRE CO., 806 State Mutual Bldg., Worcester, Mass. Plant: Howe Ave., Milbury, Mass.
Pres. and Gen. Supt.—Carl T. Lund
Treas.—Frank Kilmer
Sec.—Alfred J. Jacobson
Pur. Agt. and Gen. Mgr. — Charles K. Hardy, Jr.
EQUIPMENT—Wire drawing
PRODUCT—High carbon specialty wires, such as music, piano, oil tempered, rope, chrome vanadium, etc.
Capacity—7,000 tons
Capital—$300,000
Railroads—B. & A., N. Y., N. H. & H.

NEW JERSEY ZINC CO. (of Pa.), 160 Front St., New York City. Works at Palmerton, Pa.
Chairman—Edgar Palmer
Pres.—J. E. Hayes
Vice Pres.—A. P. Cobb
Treas.—H. S. Wardner
Sec.—R. G. Hudson
Vice Pres. of Opr.—F. N. Spencer
Gen. Pur. Agt.—W. J. Lee
Gen. Mgr. of Mfg.—H. Hardenbergh
Gen. Sales Mgr.—Marshall L. Havey
Chief Engr.—Gottfried L. Ostgren
Met.—E. H. Bruce and A. E. Hall

NEW LONDON SHIP & ENGINE CO., Groton, Conn.
Pres.—L. Y. Spear
Vice Pres. and Gen. Mgr.—F. T. Cable
Treas. and Sec.—E. H. Schumacher
Pur. Agt.—C. D. Young
Supt. Frdy.—L. Chappell
Chief Engr.—Ernest Nibbs
Chief Elec.—H. Gamber
Met.—J. E. Corcoran
PRODUCTS — Iron castings, Diesel engines, submarine boats, all kinds of commercial craft, special machinery
Capacity—350 tons annually
Railroads—N. Y. N. H. & H.

NEWPORT ROLLING MILL CO., Newport, Ky.
Pres.—Albert K. Andrews
Vice Pres.—Joseph B. Andrews
Vice Pres. Sales—Frank A. Moeschl
Sec.-Treas.—Joseph G. Andrews
Asst. Mgr. Sales—W. H. Wendel
Pur. Agt.—R. K. Boggs
Comptroller—H. W. Boal
Gen. Supt.—H. M. Davis
Gen. Supt. O. H.—C. H. Sloan
Chief Engr.—Theodore Nielander
Mech. Supt.—Henry Ross

NEW PROCESS IRON & STEEL CO., Noblesville, Ind.
Pres.—J. F. Reimer
Vice Pres.—J. E. Owen
Vice Pres.—E. E. Worth
Gen. Mgr.—C. F. McCanbell
EQUIPMENT — 24-inch breakdown mill, 16-inch finishing mill
PRODUCTS—Billets 4 to 6 inches

NEWTON STEEL CO., First Natl. Bank Bldg., Youngstown, O. Plant: Newton Falls, O.
Pres. and Treas.—E. F. Clark
Vice Pres.—J. H. Fitch, Jr.
Sec.—W. V. Eaton
Pur. Agt.—F. J. Laskey
Asst. Sales Mgr.—H. E. Robinson
Asst. Sec.—C. J. Koelsch
Traffic Mgr.—H. D. McKnight

(At Newton Falls, O., Plant)
Gen. Mgr.—C. B. Pollack
Gen. Supt.—R. M. Laning
Chief Engr.—R. M. Fenton
Dir. Research—C. H. Butts
EQUIPMENT—20 sheet mills
PRODUCTS—Full finished sheets, automobile sheets, one pass, single pickled and metal furniture sheets
Capacity—120,000 tons
Capital — 10,000 shares preferred, $100,000,000; 100,000 shares common, $2,000,000
Railroads—B. & O., and N. Y. C.

NEW YORK CENTRAL IRON WORKS, INC., Middlesburg Road, Hagerstown Md.
Pres.—M. P. Moller
Vice Pres.— L. D. Perry
Treas.—D. A. Stickell
Sec.—Wm. Wingert
Gen. Mgr.—Leonard Crooke
Pur. Agt.—Geo. Sowder
Supt.—S. E. Houser
PRODUCTS—Structural steel, gray iron castings, pattern work, special machinery
Capacity—6,000 tons anually
Capital—$225,000; issued $217,786
Railroads—Penna., N. & W., W. Md., B. & O.

NICETOWN PLATE WASHER CO., 1824 West Juniata St., Philadelphia, Pa.
Pres. and G. M.—Wheeler Lord
Treas. and Gen. Supt.—C. Ellsworth Hamilton
EQUIPMENT—One 3 high 10-inch guide and bar mill
PRODUCTS—Bar iron and steel and standard plate washers
Capacity—10,000 tons bar iron and steel, 20,000 kegs of washers
Capital—$195,000
Railroad—Phila. & Reading

NORTHERN ENGINEERING WORKS, 210 Chene St., Detroit, Mich. Plant at Walkerville, Ont.
Pres. Treas. and Gen. Mgr.—Henry W. Standart
Sec.—Louis H. Olfs
Pur. Agt.—R. R. Taylor
Gen. Supt.—R. D. McCutcheon
Foreman Machinist—Frank Mitchell
PRODUCTS—Electric travelling cranes and hoists
Capital Stock—$500,000
Railroads—All entering Detroit

NORTHWEST STEEL & METAL PRODUCTS CO., 9th and 11th Aves., Seattle, Wash.
Pres.—A. Goldberg
EQUIPMENT—Electric furnaces and 16-inch and 10-inch Belgian mills

NORTHWESTERN BARB WIRE CO., Sterling, Ill.
Pres. and Treas.—Paul W. Dillon
Vice Pres.—F. E. Birch
2nd Vice Pres. and G. Supt.—H. W. Hill
Sec.—A. L. Haglund
Asst. Gen. Supt.—B. F. Bradley
Foreman Mach.—John Krause

NORTHWESTERN STEEL & IRON CORP., 2943 Fourth St., S. E., Minneapolis, Minn.
Pres. and Gen. Mgr.—Walter J. Miller
Vice Pres., Asst. G. M. and Pur. Agt.—W. E. Niemackl
Vice Pres. and Sales Mgr. — Walter O. Parham
Treas.—Glen E. Petters
Sec.—C. L. Rotzel
Gen. Supt.—H. F. Elmer
Supt. O. H.—Joe Carter
Safety Engr. and Storekeeper—Ed. Nye
Gen. M. M.—Herman Linner
Chemist—Joe Scandling
EQUIPMENT—Two 5-ton acid O. H. furnaces
PRODUCTS—Acid open hearth steel castings, dynamo steel castings
Capacity—500 tons per month
Railroad—No. Pac.

NORTON IRON WORKS, 2172 Front St., Ashland, Ky.
Pres.—J. H. Frantz
Vice Pres. and G. M.—J. C. Miller
Treas.—C. W. Veritv
Asst. Treas., Asst. Sec. and Pur. Agt.—G. W. McNeilly
Sec.—R. C. Phllips
Supt. B. F.—R. M. Lewis
Chief Engr.—J. L. Fearing
Safety Engr.—C. M. Allen
Elec. Engr.—H. F. Wellman
Chemist—R. P. Price
EQUIPMENT — One wire mill, one wire nail factory, one cut nail factory, one barb wire factory, one blast furnace, one screen wire cloth plant
PRODUCTS—Wire, wire nails cut nails, barb wire, galvanized wire, screen cloth and pig iron
Capacity—350,000 kegs wire nails, 150,000 kegs cut nails, 100,000 tons pig iron, 100,000 reels barb wire annually
Capital—$1,860,000
Railroad—C. & O. and Ohio river

NUGENT STEEL CASTINGS CO., 3100 So. Wood St., Chicago, Ill.
Pres.—W. J. Nugent
Treas.—C. A. McDonald
Sec.—H. C. Osman
Gen. Supt.—John Marr
M. M.—Adolph Sachse
Chemist—L. K. Bartholic
Pur. Agt.—James Shepard
EQUIPMENT—Electric furnaces
PRODUCTS—Steel castings, special alloy steels

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OAKES MACHINERY CO., WM. L., Cor., William and Morgan Sts., Decatur, Ill.
Mgr.—Geo. Oakes
Draftsman and Foreman Machinist—Wm. L. Oakes
PRODUCTS—Oxy-acetylene welding, boilers, etc.

OHIO FALLS IRON CO., New Albany, Ind., 4th and Water Sts.
Pres.—George M. Clark
Vice Pres. and G. M.—James T. Clark
Treas. and Sec.—C. E. Clark
Pur. Agt.—R. H. Bailey
Gen. Supt.—T. P. Corcoran
Chief Engr.—Joseph Detrich
PRODUCTS—Iron and steel bars, angles and channels, deformed concrete bars

OHIO SEAMLESS TUBE CO., THE, W. Main St., Shelby, O.
Chairman—Edwin Mansfield
Pres. and G. M.—A. C. Morse
Vice Pres.—R. C. Skiles
Vice Pres. Sales—C. H. Wood
Treas. and Sec.—G. L. Reichert
Asst. Treas. and Asst. Sec.—B. C. Endslow
Pur. Agt.—M. N. Nimmons
Asst. Gen. Mgr.—F. L. Benham
Gen. Supt.—B. V. Hollenbaugh
Chief Engr.—S. D. Inscho
Asst. Chief Engr.—Clayton Mayer
Elec. Engr.—Henry Nimmons
M. M.—John Heck
Met.—H. R. Lewis, Jr.
Storekeeper—I. B. Baker
PRODUCT—Seamless steel tubing
Capital—90,000 shares no par value common; issued, 77,490 shares; 30,000 shares preferred, $100 par value; issued, 15,753 shares

OHIO STEEL CASTINGS CO., 2284 Scranton Rd., Cleveland, O.
Pres.—H. E. Gresham
Vice Pres.—C. S. Fenton
Treas.—D. K. Gresham
Sec.—F. C. Lubahn
Asst. to Sec.—C. J. Boldt
Pur. Agt.—G. Martin
Gen. Mgr.—George Martin
Gen. Supt.—J. Rowan
M. M.—Joe Husak
EQUIPMENT—One electric furnace
PRODUCTS—Steel castings
Capacity—150 tons castings per month
Capital—$100,000. issued, $37,500
Railroad—Nickel Plate

OHIO STEEL FOUNDRY CO., THE, Lima, O. Plants: Bucyrus and Springfield, O.
Chairman—J. W. Kaufman
Pres.—J. E. Galvin
Vice Pres. Opr.—W. J. Gilmore
Vice Pres. Sales—T. H. Harvey
Asst. to Vice Pres.—W. J. Hayes
Treas.—D. R. Carpenter
Pur. Agt.—J. E. Neely
PRODUCTS—Steel castings all kinds

(At Springfield, O., Plant)
Gen. Supt.—V. T. Hohaus
Asst. Gen. Supt.—P. Gore
M. M.—Charles Pillars
Met.—H. Wilton
Chemist—John Mendenhall
Mgr. High Pressure Fitting Dept.—E. K. Pierce
Machine Shop Supt.—Ed. Plaugh
Safety Engr.—J. W. Beall
Draftsman—E. P. Luther
Storekeeper—D. Titer
Capacity—500 tons
Railroads—C. C. C. & St. L., D. T. & I., I. C. & E. Traction, S. & Y., Penna.

OIL CITY IRON WORKS, Shreveport, La.
Pres.—H. C. Brewster
PRODUCT—Steel castings
Capacity—10 tons per day

OIL WELL SUPPLY CO., 215 Water St., Pittsburgh, Pa. Plants: 21st and A. V. R. R., Pittsburgh, and Oil City, Pa.
Pres.—Louis Brown
Vice Pres. and Gen. Mgr.—D. J. Brown
Vice Pres. Charge Prod.—Thomas Fleming, Jr.
Vice Pres. Charge Stores—Clark Reed
Vice Pres.—H. C. Burns
Vice Pres. and Treas.—H. H. James
Vice Pres.—J. H. Hillman, Jr.
Sec.—E. W. Criswell
Asst. Treas.—H. A. Baschert
Asst. Sec.—W. W. Anderson
Chief Engr.—E. E. Greve

OKLAHOMA IRON WORKS, Box 463, Tulsa, Okla.
Pres. and Gen. Mgr.—J. W. Sloan
Vice Pres.—J. R. Shark
Treas.. Sec. and Pur. Agt.—A. F. Bourne
Gen. Supt.—Wm. Wright
Chief Elec.—P. E. Means
Draftsman—R. R. Sloan
Foreman Mach.—C. B. Crisman
Storekeeper—R. L. Cobb
PRODUCTS—Oil well supplies
Capital—$3,000,000
Railroads—M. V., A. T. & S. Fe, M. U. R. R., M. K. T.

OKLAHOMA STEEL CASTINGS CO. P. O. Box 3427, Tulsa, Okla. Plant: 1200 North Peoria St.
Pres. and G. M.—Ernest H. Cornelius
Vice Pres.—Burt Fleeger
Sec. and Treas.—L. C. Barton
Sales Mgr.—S. J. Moore

(At Plant, 1200 N. Peoria St.)
Gen. Supt.—W. P. Brown
M. M.—Mack Bridges
Met.—Clyde Wyman
Storekeeper—Wm. Carlley
EQUIPMENT—One ½-ton Moore electric furnace
PRODUCTS—Electric steel castings for oil industry, railroads, industrial and miscellaneous use
Capacity—3,500 tons
Capital—3,300 shares no par; 2,500 shares issued
Railroads—Plant located on Santa Fe tracks; car load and L. C. L. lots in M. K. P., St. L. S. F., Midland Valley, O. U. R., and A. T. S. F.

OLD DOMINION IRON & STEEL WORKS, INC., Richmond, Va.
Pres.—Thomas S. Wheelright

Vice Pres. and G. M.—H. R. Wayt
PRODUCTS—Refined bar iron, staybolt iron, engine bolt iron, electric steel bars

OLIVER CHILLED PLOW WORKS, South Bend, Ind.
Pres.—Joseph D. Oliver
Vice Pres.—James Oliver II
Treas.—Joseph D. Oliver, Jr.
Asst. Treas.—H. G. Davis
Sec.—C. Frederick Cunningham
Asst. Sec.—T. A. Freeman
Fur. Agt.—A. A. Frederick
Gen. Mgr.—W. A. Weed
Gen. Supt.—C. A. Portman
Supt. Fdry.—R. J. McSherry
Met.—John P. Walstad
PRODUCTS—Tillage implements, castings for own use
Capacity—3,000 tons annually

OLIVER IRON AND STEEL CORP., So. 10th and Muriel Sts., Pittsburgh, Pa. Also plant at Wilson, Pa.
Chairman—Mrs. Edith Oliver Rea
Pres.—Henry Oliver
Vice Pres. Sales—Charles Oliver
Vice Pres. Opr.—James C. Rea
Vice Pres.—Henry Oliver Rea
Vice Pres., Morris Bailey Div.—H. F. Devens
Sec.—Charles E. Black
Asst. Sec.—John Jenkins
Treas.—Ralph Theophilus
Elec. and Steam Engr.—Wm. A. Butler
Chief Draftsman—John Dahlstrom
Gen. Supt. Factories—Charles Fassinger
Supt. Machinery, Foreman Mach. Shop—George Young
Safety Insps.—F. W. Bauman and Maurice Walsh
PRODUCTS—Bolts, nuts, rivets, wagon iron, pole line hardware, cold rolled strip steel
Capacity—100,000 tons annually
Power Plant—Electric; horsepower, 2,000 kw.

(Morris Bailey Div., Wilson, Pa.)
Vice Pres. Opr. and Sales—H. F. Devens
Asst. to Vice Pres. and G. M.—C. I. Collins
Pur. Agt.—J. C. Miller
Gen. Supt.—W. H. Stivason
Asst. Gen. Supts.—Carl Lotta and Mathew Coates
M. M.—H. W. Freiwalt
Chief Draftsman—R. W. Musser
PRODUCT—Cold rolled steel

OLNEY FOUNDRY CO., 180 W. Duncannon Ave., Philadelphia, Pa.
Chairman—Charles Piez
Pres.—Staunton B. Peck
Vice Pres., Treas., Sec. & G. M.—Harry A. Cooke
Gen. Supt.—Julian B. Greenstreet
PRODUCTS—Gray iron castings and wood and metal patterns
Capacity—500 tons per month
Capital—$300,000
Railroad—Reading

OLYMPIC STEEL WORKS, 151 Horton St., Seattle, Wash.
Pres.—C. W. Kucher
Vice Pres., Treas. and G. M.—E. R. Hinton
Sec.—Rex L. Alexander
Gen. Supt.—John Chapman
EQUIPMENT—Jobbing foundry equipment
PRODUCTS—Steel castings
Capacity—10 tons daily
Capital—$60,000

OMAHA STEEL WORKS, 4802 Leavenworth St., Omaha, Neb.
Pres.—John W. Towle
Treas.—F. H. Bucholz
Sec.—J. C. Martin
Pur. Agt.—M. J. Hess
Gen. Mgr.—Karl E. Vogel
Gen. Supt. Struc. Dept.—John C. Wickman
Supt. Steel Fdry.—J. E. Graham
Chief Engr.—W. A. Milek
Asst. Chief Engr.—H. A. Seume
Mech. Engr.—Fritz Carstens
Steam Engr.—George Sheblisky
Chemist—George Brayshaw
Safety Engr.—M. M. McHale
Storekeeper—J. Barckley
PRODUCTS—Electric steel castings, machine work, structural steel for bridges, buildings, tanks, towers, ornamental iron work, trailers and miscellaneous contractors' equipment
Capital—$750,000

ONONDAGA STEEL CO., Eastwood Stat., Syracuse, N. Y.
Chairman—S. S. Buckley
Pres.—A. J. Briggs
Vice Pres. and P. A.—E. D. Newkirk
Treas. and Sec.—E. L. King
Supt. Rolling Mills—H. D. Newkirk
Chemist—H. G. Tienken
Charge Elec. Fur.—L. M. Newkirk
EQUIPMENT—Two rolling mills, one 2-ton electric furnace
PRODUCT—High speed steel
Capacity—600 tons annually

ORDNANCE DEPT., U. S. ARMY, Watertown Arsenal, Watertown, Mass.
Com. Officer—Col. T. C. Dickson, Ord. Dept.
Machine Shop Supt.—Maj. W. P. Boatwright, Ord. Dept.
Steel Plant Supt.—Capt. H. C. Minton, Ord. Dept.
Met.—Dr. F. C. Langenberg
EQUIPMENT—Two 35-ton and one 15-ton open hearth furnace; one 2-ton and 2 6-ton Heroult electric furnaces.
PRODUCT—Ferrous and non-ferrous castings and ingots for gun forgings; high explosive shell; deck piercing shell and armor piercing shell
Capacity—55,500 tons annually

OTIS ELEVATOR CO., 260 Eleventh Ave., New York, N. Y. Plants: Yonkers, N. Y.; Buffalo, N. Y.; Harrison, N. Y.; Quincy, Ill.

Chairman—W. D. Baldwin
Pres.—J. H. Van Alstyne
Vice Pres.—R. W. Charles
Vice Pres.—A. G. Mills
Vice Pres.—G. R. Rebman
Vice Pres.—J. C. Knapp
Vice Pres.—A. J. McComb
Vice Pres.—E. A. Fitch
Treas.—C. A. Sanford
Sec.—T. M. Logan
Pur. Agt.—G. H. Heilman
Auditor—C. K. Kirkbride
Capital—$25,000,000 common; issued, $21,609,250; $6,500,000 preferred

(At Buffalo, N. Y., Plant, 162 Grider St.)
Mgr.—W. E. Van Horn
Supt.—G. H. Kummerer
Supt. Steel Fdry.—C. E. Westover
Met.—Theodore Burke
EQUIPMENT—Two 3-ton Pittsburgh Electric steel furnaces
PRODUCTS—Electric steel castings
Capacity—10,000 gross tons per year
Railroad—N. Y. C., private siding

(At Yonkers, N. Y., Atherton St. Plant)
Works Mgr.—R. H. Goodwillie

(At Harrison, N. J., Works)
Works Mgr.—C. C. Campbell

(At Quincy, Ill., Works)
Works Mgr.—G. H. Gardner

OTIS STEEL COMPANY, 3341 Jennings Road, Cleveland, O. Plants Jennings Road and 3131 Lakeside Ave., Cleveland O.
Chairman—W. G. Mather
Pres.—E. J. Kulas
Vice Pres. Opr.—R. H. Clarke
Vice Pres.—J. G. Carruthers
Treas.—G. A. Paine
Asst. Treas.—J. W. Carpenter
Sec.—F. C. Oviatt
Pur. Agt.—L. C. Parrott
Gen. Supt.—R. L. Davis
Asst. Gen. Supt. and Finish. Mills—A. H. Shonkwiler
Supt. B. F.—J. H. Williams
Supt. O. H.—Ed. O'Neil
Supt. Bloom. Mills—John Hughes
Chief Engr.—A. C. Nelson
Elec. Engr.—J. F. O'Malia
Asst. Elec. Engr.—John Koral
Steam Engr.—R. S. Clark
Safety Engr.—Fred T. Robertson
Field Engr.—J. D. Campbell
M. M.—C. H. Teaff
Met. and Chemist—Geo. B. Nisbet
Draftsman—F. E. Terrill
EQUIPMENT—2 blast furnaces, 100 coke ovens, coke oven by-product equipment, bloom and bar mill, hot strip mill, cold strip mill, sheet mills, plate mills and foundry
PRODUCTS—Plates, sheets, hot and cold rolled strip, pig iron and steel castings
Capacity—360,000 tons pig iron, 228,000 tons plates, 160,000 tons light sheets and plates, 144,000 tons hot strip, 50,000 tons cold strip, 40,000 tons castings
Capital—$15,500,000
Railroads—N. Y. C., Penna., W. & L. E., B. & O., C. V., Cuyahoga River

(At Lakeside Works, Cleveland, O.)
Gen. Supt.—G. S. Ashman
Supt. O. H.—H. A. Bost
Supt. Plate Mills—G. H. Keast
Supt. Machine Shop—T. Lovell
Brick Supt.—E. Leeks
Supt. Foundry—C. A. Bever
Elec. Engr.—A. Greenslade
M. M.—J. B. Round
Chemist—C. E. Marquard
Storekeeper—J. Ongert
EQUIPMENT—152-inch plate mill, 1121 inch plate mill, five 40-ton open hearth furnaces, three 20-ton open hearth furnaces; also reheating, annealing and heat treating furnaces and Tropenas converter
PRODUCTS—Steel plates, steel castings, steel and alloy rolls
Capacity—90,000 tons of plates and 30,000 tons steel castings annually
Railroads—N. Y. C., Penna., Cleveland Belt, Erie, B. & O., W. & L. E., Big Four, Nickel Plate

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PACIFIC CAR & FDRY. CO., 711 White Bldg., Seattle, Wash. Plant: Renton, Wash.
Pres.—L. T. Carroll
Vice Pres. and Gen. Mgr.—H. N. Curd
Treas. and Sec.—W. S. Bassage
Asst. Treas. & Asst. Sec.—J. E. LeBlanc
Pur. Agt.—S. C. Williams
Asst. Gen. Mgr.—C. P. Sander
Sales Mgr.—F. W. Chriswell

(At Renton, Wash., Plant)
Gen. Supt.—T. E. Gillen
Supt. Steel Fdry.—Geo. Johnson
Machine Shop Supt.—Wm. Allen
Mech. Engr.—H. C. Jarvis
Met.—A. Finlayson
Draftsman—Alex Thompson
Storekeeper—Jas. O'Brien
EQUIPMENT—Two 1½-ton electric furnaces
PRODUCTS—Car, locomotive and miscellaneous steel castings
Capacity—300 tons per month
Capital—$2,200,000
Railroads—N. P., C. M. & S. P., Pacific Coast

PACIFIC COAST STEEL CO., 510 Rialto Bldg., San Francisco, Cal. Plants: South San Francisco, Cal.; Seattle, Wash.; and Portland, Ore.
Pres. and Gen. Mgr.—E. M. Wilson
Vice Pres.—D. E. McLaughlin
Treas.—Wm. Pigott, Jr.
Asst. Sec. and Direct. Sales—E. S. Houdlette
Dist. Sales Mgr.—A. J. Gray
Pur. Agt.—L. W. O'Donnell

Compt.—H. C. Jones
Capital—$5,000,000

(At South San Francisco, Cal., Plant)
Gen. Supt.—W. P. Mullane
Supt. O. H.—C. W. Jones
Supt. Finishing Mills—J. R. Myles
Asst. Supt. Finish. Mills—M. S. Donaldson
Brick Supt.—Thos. Hanlon
Chief Engr.—A. W. Clausen
Elec. Engr. and M. M.—C. L. Stokes
Safety Engr. and Draftsman—R. Takkenna
Chemist—L. A. Anderson
Met.—Dr. W. J. Crook
Machine Shop Supt.—Carl Kleversahl
Roll Designer—Thomas S. Evans
Storekeeper—J. H. Kluge
EQUIPMENT—Open hearth furnaces, 24-inch, 18-inch, 12-inch, 16-inch and 9-inch mills, tower manufacturing department
PRODUCT—Merchant bars, angles, channels, special shapes, rounds, squares, etc.
Capacity—100,000 to 150,000 net tons
Railroads—So. Pac., Santa Fe, West. Pac.

(At Seattle, Wash., Plant)
Mgr.—T. S. Clingan
Asst. Mgr. and Pur. Agt.—L. G. Knight
Gen. Supt.—James P. English
Asst. Supt.—Leo Reardon
Supt. O. H.—Frank Lee
Brick Supt.—Wm. Peterson
Chief Engr.—W. C. Eshelman
Chief Elec. Engr.—Louis Held
M. M.—James Chapman
Met.—J. C. Beneker
Draftsman—H. Guldberg
Storekeeper—M. G. Havens
EQUIPMENT—Open hearth furnaces, 22-inch, 12-inch, 16-inch, 8-inch and 9-inch mills
PRODUCTS—Merchant, flats, rounds, squares, etc.; deformed bars, angles, channels, I-beams, tie plate, universal plate, light rails, etc.
Capacity—100,000 to 150,000 tons
Railroads—Mo. Pac., G. N., C. M. and St. P., O. W. R. & N.

PACIFIC ROLLING MILL, 370 Tenth St., San Francisco, Cal. Erecting rolling mill at Kansas and Marion Sts., with a capacity of 2,000 tons per month
Pres.—E. B. Noble
Treas.—H. F. Hedrick
Mgr.—A.E. Wilkins

PAGE STEEL & WIRE CO., 929 Conn. Ave., Bridgeport, Conn. Plants: Adrian, Mich.; Monessen and York, Pa.
Pres.—W. B. Lasher
Vice Pres. and Gen. Mgr.—W. T. Morris
Treas.—W. F. Wheeler
Sec.—W. M. Wheeler
Pur. Agt.—C. G. Williams
Chief Engr.—B. B. Hood
Mgr. Sales—A. P. VanSchaick
Capital—$2,200,000, preferred; $1,000,000, common

(At Monessen, Pa., Plant)
Works Mgr.—A. W. Taylor
Asst. Works Mgr.—C. N. Johns
Pur. Agt.—B. E. Krebs
Chief Engr.—C. W. Martin
Field Fence Dept. Supt.—R. Spahr
Supt. Rolling Mills—J. J. Cushing
Supt. Wire Dept.—H. W. Harris
Supt. Gates, Panels and Fence Fitting Dept.—S. C. Schumm
M. M.—J. G. Gingery
Elec. Supt.—C. W. Hutchinson
Met.—D. F. Hastings
Roll Designer—A. Dawson
Supt. Chain Link Fence, Lawn Fence and Welding Wire Depts.—Thos. Flannagan
Supt. Strand and Barbed Wire Depts.—F. Stonage
EQUPMENT—One rolling mill, four wire mills
PRODUCTS—Rods, wire and fence
Capacity—70,000 tons annually

(At Adrian, Mich., Plant)
Wks. Mgr.—J. M. Reifsnider
Pur. Agt.—C. A. Bovee

PARKERSBURG IRON & STEEL CO., Parkersburg, W. Va. Office, 421 Wood St., Pittsburgh, Pa.
Chairman—L. A. Meyran
Pres. and Treas.—C. F. Niemann
Vice Pres.—A. E. Niemann
Vice Pres.—A. E. Succop
Sec.—James H. Gray

(At Parkersburg, W. Va., Plant)
Pur. Agt.—E. J. Hayman
Gen. Supt.—F. F. Flaig
Gen. M. M.—W. C. Hewitt
Chief Elec.—R. H. Jarvis
PRODUCTS—Black and galvanized steel sheets, roofing, nested stove pipe and elbows, dripping pans

PARKESBURG IRON CO., Parkesburg, Pa.
Pres.—H. A. Beale, Jr.
Vice Pres. and G. M.—E. H. Brodhead
Vice Pres. and Treas.—George Thomas, III
Sec. and Asst. to Pres.—H. A. Beale, III
Asst. Sec.—A. T. Wright
Pur. Agt.—Robt. W. Thomas
Asst. Gen Mgr.—J. R. Humpton
Chief Elec. Engr.—L. R. Humpton
EQUIPMENT—26 forge fires, 16 heating furnaces, 2 bar mills, 4 plate mills, one regenerative gas bending furnace, 3 regenerative gas welding furnaces with equpment of rolls, etc. 6 gas producers, waste heat boilers in skelp mill, 3 Maxim boilers in tube mill; tube mill electrically driven
PRODUCTS—Charcoal iron boiler tubes
Capacity—15,000 tons
Railroad—Penna.

PARSONS CO., THE, Newton, Iowa.
Pres. and Gen. Mgr.—H. C. McCardell
Vice Pres.—T. H. Bergman
Vice Pres.—W. Dewind
Vice Pres.—Jas. McElroy

Asst. to Vice Pres.—W. N. Keiser
Treas.—O. F. Ecklund
Sec. and Chief Engr.—G. A. Vaughn
Pur. Agt.—D. M. Clark
Gen. Supt.—M. S. Vincent
Asst. Gen. Supt.—E. A. Olson
Asst. Chief Engr.—A. F. Hayler
Storekeeper—B. C. Owens
EQUIPMENT—Machine shop, erecting shops, structural shops and steel fdry.
PRODUCTS—Trench excavating machinery and steel castings
Capital—$750,000; issued, $500,000; bonds outstanding, $100,000
Railroads—Rock Island, M. & St. L.

PELTON STEEL CASTING CO., Chicago Road and Elliott Place, Milwaukee, Wis.
Pres. and Treas.—A. J. Ehne
Vice Pres.—H. A. Leekley
Sec.—A. M. Slichter
Asst. Gen. Supt.—Ed. Daehn
Storekeeper—J. D. Leekley
EQUIPMENT—1½-ton Moore electric furnace
PRODUCTS—Electric steel castings
Capacity—2,000 tons annually
Railroads—C. M. & St. P., C. & N. W. Lake boats, electric lines

PENN FOUNDRY & MACHINE CO., Basic, Va.
PRODUCT—Steel castings

PENN IRON & STEEL CO., Creighton, Pa.
Pres.—Lewis W. Hicks
Vice Pres., Treas., Sec. and Pur. Agt.—C. J. Neiman
Vice Pres. and Gen. Mgr.—W. A. Hicks
Asst. to Pres.—S. N. Hicks
Gen. Supt.—John W. Davis
EQUIPMENT—18 puddle furnaces, 5 heating furnaces
PRODUCTS—Staybolt, hollow, drilled staybolts, engine bolt and U. S. Navy chain iron
Capacity—800 tons per month (iron)
Capital—$150,000
Railroad—Penna.

PENN STEEL CASTINGS CO., Front and Penn Sts., Chester, Pa.
Pres., Gen. Mgr. and Pur. Agt.—S. E. Sproul
Vice Pres. and Sec.—W. S. Hanney
Treas.—A. M. Adorn
Gen. Supt.—F. Briner
Supt. O. H.—F. P. Smith
Chief Engr., M. M., Elec. and Steam Engr.—C. Blake
Met.—F. Morgan
Foreman Insp.—H. Cornwall
Storekeeper—S. J. Booth
EQUIPMENT—Three 25-ton acid open hearth furnaces
PRODUCTS—Steel castings
Capacity—2,000 tons
Capital—10,000 shares common no par value, 5,000 pref., $100 par, bonds issued, $1,100,000
Railroad—Reading direct in works, wharf on Delaware river

PENNSYLVANIA ENGINEERING WKS., South Jefferson St., New Castle, Pa.
Pres.—W. H. Lewis
Vice Pres. and Treas.—W. S. Wheeler
Sec. and Pur. Agt.—S. B. Cleal
Gen. Supt.—W. H. Shipler
Chief Engr.—Lee E. Allen
Elec. Engr.—Anthony Nene
Plate Shop Foreman—Walter Vogan
Mach. Shop Foreman—Wm. Jenkins
Sales Engr.—Clark Rossiter
EQUIPMENT—Machine shop, pattern shop, forge shop, plate shop and foundry
PRODUCTS—Blast furnace and steel plant equipment, tanks, gas holders, iron castings
Capital—20,000 shares common; issued, 11,000 shares; $500,000, pfd.; issued, $375,000
Railroads—Penna., P. & L. E. and B. & O.

PERRY IRON CO., 2000 Union Trust Bldg., Cleveland, O. Furnace at Erie, Pa.
Pres.—H. G. Dalton
Vice Pres. Opr.—H. S. Pickands
Treas.—S. E. Bool
Sec.—J. B. Putnam
Pur. Agt.—N. B. Prentice

(At Erie, Pa., Furnace)
Supt.—H. C. Kikstadt
M. M.—D. L. Glenn
Chemist—R. A. Blair
EQUIPMENT—One blast furnace and 37 Wilputte coke ovens
PRODUCTS—Pig iron, coke and by-products
Capacity—Pig iron, 127,750 tons; coke, 175,000 tons; light oil, 900,000 gallons
Railroad—Penna.

PETERS PUMP CO., 405 N. Main St., Kewanee, Ill.
Pres.—Wm. Gunther
Vice Pres.—Frank Gunther
Sales Mgr.—G. W. Brown
Chief Engr.—C. W. Peterson
Fdry. Foreman—Mont Anderson
PRODUCTS—Pumps, etc.
Railroads—C. B. & Q.

PETTIBONE-MULLIKEN CO., 725 Marquette Bldg., Chicago, Ill. Plant: 48th Ave. and Division St., Chicago, Ill.
Pres.—A. H. Mulliken
Vice Pres.—C. H. Eib
Vice Pres. and Treas.—J. H. Mulliken
Sec.—H. R. Prest

(At 48th Ave., and Division St., Chicago Plant)
Works Mgr.—A. M. Cornell
Supt. Frog and Switch Shop—August Enstrom
Asst. Works Mgr.—E. W. Powell
Mech. Engr.—O. W. Anderson
Elec. and Supt. Power—W. Star
Met.—H. P. Evans

EQUIPMENT—Two 3-ton Heroult electric furnaces
PRODUCTS—Railway track materials, manganese steel castings
Capacity—12,000 tons annually
Railroad—Belt Ry. of Chicago

PHOENIX HORSE SHOE CO., Phoenix Ave., Joliet, Ill. Plants: Poughkeepsie, N. Y., and Cleves, O.
Pres.—J. W. Kiser
Vice Pres.—A. W. Sexsmith
Vice Pres. and Gen. Mgr.—Edward N. Gosselin
Treas.—L. M. Kirk
Sec.—John E. Baker
Pur. Agt.—H. Knesch
Chief and Elec. Engr.—H. Spackman
EQUIPMENT—One 20-inch mill; four 9-inch mills; one 10-inch mill
PRODUCTS—Horse shoes, toe calks and billets
Capacity—20,000 tons

(At Poughkeepsie, N. Y., Plant)

Pur. Agt.—J. Stratton
Gen. Supt.—J. W. Tweedy
EQUIPMENT—One 16-inch mill, four 9-inch mills
Capacity—16,000 tons

(At Cleves, O., Plant)

Pur. Agt.—P. D. Mackay
EQUIPMENT—One 6-ton electric steel furnace
Capacity—10,000 tons

PHOENIX IRON CO., 22 South 15th St., Philadelphia, Pa. Plant: Phoenixville, Pa.
Chairman—William H. Reeves
Pres.—Samuel J. Reeves
Vice Pres. Opr., Treas. and Sales—George C. Carson, Jr.
Gen. Mgr. and Asst. Sec.—Wm. O. Lange
Sales and Pur. Agt.—George H. Lange

(At Phoenixville, Pa., Plant, Bridge St.)

Mgr.—Frank P. Norris
Asst. Mgr.—Arthur W. C. Smith
Supt. O. H.—N. E. MacCullum
Asst. Supt. O. H.—H. H. Karrer
Supt. Roll Mill—M. E. Latshaw
Chief Engr.—Clyde MacCornack
Asst. Chief Engr.—John R. Lambert
Chief Elec.—Joseph F. Jelley
M. M.—William Smith
Chief Chemist—James A. Kelly
Chief Draftsman—Charles A. Widdicomb
Safety Engr.—Elmer Vanderslice
EQUIPMENT—Two rolling mills, blooming mill and 6 open hearth furnaces
PRODUCTS—Structural shapes
Capital—$1,500,000; bonds issued, $1,000,000
Capacity—175,000 tons annually
Railroads—Penna., Reading

PINE IRON WORKS CO., Pine Forge, Berks County, Pa.
Pres.—James B. Bailey
Sec. and Treas.—F. R. Smith, Harrisburg, Pa.
Asst. Treas.—J. E. Dougherty
Supt.—J. A. Whitacre
PRODUCTS—Iron and steel boiler, ship tank and floor plates

PIONEER MFG. CO., Middlebury, Ind.
Pres.—C. E. Kauffman
Vice Pres.—C. M. Kauffman
Sec. and Treas.—Vernon D. Shoup
Foreman Factory—Jno. Mecum
PRODUCTS—Galvanized steel goods
Capital—$50,000; issued $20,000.
Railroads—N. Y. C.

PITTSBURGH COLD ROLLED STEEL CO., Verona, Pa.
Pres.—Eben B. Clarke
Sec.—Albert M. Arelt
Treas. and G. M.—A. Fielder Clarke
Gen. Supt.—T. W. Kirby
EQUIPMENT—Cold rolling mills, shears, annealing furnaces, etc.
PRODUCT—Cold rolled strip steel
Capital—$150,000
Railroad—Two track siding

PITTSBURGH CRUCIBLE STEEL CO., Oliver Bldg., Pittsburgh, Pa. Plant: Midland, Pa. Subsidiary Crucible Steel Co. of Am.
Pres.—F. B. Hufnagel
Asst. to Pres.—D. A. Polhemus

(At Midland, Pa., Plant)

Gen. Mgr.—Robert M. Keeney
Supt. Steel Wks.—O. L. Pringle
Supt. Elec.—R. F. Chaffin
Pur. Agt.—(See Crucible Steel Co. of Am.)
PRODUCTS—Ingots, alloy steel ingots, billets, merchant bar, coke and pig iron
EQUIPMENT—Two furnaces; steel works, steel foundry and by-product ovens

PITTSBURGH FORGE & IRON CO., 1306 Chamber of Commerce Bldg., Pittsburgh, Pa. Plant: Preble Ave., North Side, Pittsburgh, Pa.
Pres.—F. E. Richardson
Asst. to Pres.—C. R. Day
Vice Pres.—Ben G. Wells
Treas. and Sec.—W. I. Miller
Pur. Agt.—Charles Clark
Gen. Mgr.—John H. Barr
Asst. Supt.—W. T. Hunt

(At Pittsburgh, Pa., North Side Plant)

Asst. Gen. Supt.—Walter F. Hunt
Chief, Safety and Elec. Engr.—Wm. H. Gault
Supt. Forge Dept.—J. P. Fleming
Asst. Supt. Forge Dept.—W. V. Dutney
Brick Supt.—E. W. Brown
Mech. Engr.—Philip Barr
Chemist—Wm. H. Lowe
Foreman Mach. Shop—Jas. George
EQUIPMENT—38 puddling furnaces, 14 heating furnaces, 2 annealing furnaces, two 20-inch muck mills, one 16-inch bar mill, one 16-inch vertical mill, one 9-

inch guide mill, three 9,000-lb. steam hammers, one 500-ton hydraulic forging press, one 1,000-ton hydraulic forging press
PRODUCT—Bar iron, engine bolt iron, staybolt iron, screw spikes, car and locomotive axles, heavy forgings
Capacity—50,000 tons annually
Railroads—Penna. and B. & O.

PITTSBURGH PIPING & EQUIPMENT CO., 43rd St. and A. V. R. R., Pittsburgh, Pa.
Pres.—Geo. H. Danner
Treas.—Morgan B. Schiller
Sec.—Charles R. Rall
Asst. Sec.—Louis K. Hamilton
Asst. Treas.—F. J. Hays
Pur. Agt.—Karl F. Tiegel
Gen. Sales Mgr.—Robert Whyte
Chief Engr.—F. P. Meyer
PRODUCTS—Piping and equipment
Railroads—Penn. and B. & O.

PITTSBURGH ROLLS CORP., (Phoenix Roll Works), 41st and Willow Sts., Pittsburgh, Pa.
Pres.—D. L. Eynon
Vice Pres. and Gen. Mgr.—Q. S. Snyder
Sec. and Asst. Treas.—P. M. Fleming
Treas.—G. W. Eisenbeis
Pur. Agt.—Harry P. Bork
Sales Mgr.—Arthur J. Ramsey
Gen. Supt.—W. H. Nichols
Supt. O. H.—Henry Bevan
Roll Designer—Oscar A. Eger
Mech. Engr.—B. A. Wilson
Elec. Engr.—C. J. Garrigan
Met.—O. B. McMillan
Chemist—J. H. Searle
Foreman Mach. Shop—Lewis P. Mackell
PRODUCTS—Iron, steel, chill sand and Phoenix metal, Phoenix "A" and Phoenix "B" rolls
Capacity—30,000 tons annually
Capital—$2,500,000
Railroad—Penna.

PITTSBURGH STEEL CO., 700 Union Trust Bldg., Pittsburgh, Pa. Plants: Monessen and Glassport, Pa.
Pres.—Homer D. Williams
Asst. to Pres.—A. R. Maxwell
Vice Pres.—Emil Winter
Vice Pres.—Edward H. Bindley
Treas.—Wm. C. Reitz
Asst. Treas.—Wm. L. Rowe
Sec.—H. J. Miller
Asst. Sec.—Ray Maxwell
Gen. Sales Mgr.—Geo. W. Jones
Gen. Pur. Agt.—Robert McMillan
Capital—$50,000,000; issued, $35,850,000

(At Monessen, Pa., Works)

Gen. Supt.—W. C. Sutherland
Asst. to Gen. Supt.—D. P. King
Supt. Blast Furnaces—Geo. W. Hughes
Asst. to Gen. Supt.—J. N. Reese
Supt. O. H.—Wm. C. Kitto
Asst. Supt. O. H.—G. B. McCune
Supt. Bloom. Mill—W. C. Maloney
Supt. Rod Mill—W. H. Waggoner
Asst. Supt. Rod Mill—T. E. Lewis
Supt. Fence Dept.—A. J. Johnson
Supt. Wire Mill—Joseph Landers
Supt. Nail Mill—George L. Jones
Supt. Hot Mills—F. J. Falise
Supt. Cold Mills—L. Martz
Supt. Galvanizing—J. Breining
Night Supt. R. M.—O. P. McCullough
Chief Engr.—O. C. Steinert
Supt. Cooper Shop—H. Reahe
Asst. Chief Engr.—Victor Chartner
Power Plant Engr.—Mr. Dumise
Steam Engrs.—Chris Fohl and Norman Wolfe
Gen. M. M.—John N. Husher
Asst. M. M.—E. J. Latour
M. M. B. F.—W. Z. Burkett
Chief Elec.—Edgar H. Cocain
Elec. Engr.—A. A. Stewart
Met.—J. H. Watt
Chemist—J. M. Thompson
Asst. Chemist—Donald Goslyn
Safety Engr.—F. J. Upton
Chief Draftsman—J. K. Watkins
Safety Insp.—John Gaffney
Foreman Machinist—John L. Hoffman
Gen. Foreman—G. Kopp
Foreman—Bert Dunmire
Chief Research Dept.—R. C. Simmons
Asst. Chief Research—Walter Farnsworth
Storekeeper—N. M. Flinn
EQUIPMENT—Two blast furnaces, 12 open hearth furnaces, blooming, billet and bar mills, rod mills, wire mills, nail mill, fence shop, galvanizing shops, barbed wire and staple shops
PRODUCTS—Pig iron, billets, rounds for seamless tubes, wire rods, annealed and galvanized wire, barbed wire, wire fence, staples, bale ties, wire nails, blued wire nails, galvanized wire nails, cement coated wire nails

(At Glassport, Pa., Works)

Supt.—E. J. Dittmar
M. M.—Philip Palmgreen
Roll Designer—Wm. McDonald
Chief Clerk—E. Mailey
PRODUCTS—Hoops, bands and cotton ties, automobile wheel rim steel, strip steel
EQUIPMENT—8 and 10-inch mills

PITTSBURGH STEEL FOUNDRY CORP. Box R, Glassport, Pa.
Chairman—Stewart Johnston, Benedum-Trees Bldg., Pittsburgh, Pa.
Pres.—G. A. Hassel
Vice Pres. Opr. and G. S.—John E. Rew
Vice Pres. Sales—C. W. Howat
Treas. and Sec.—John Bright
Asst. Treas.—M. M. Harrison
Pur. Agt.—J. B. Wilson
Asst. Gen. Supt.—Guy Mehaffey
Supt. O. H., Met. and Chem.—J. Martin Baker
Asst. Supt. Open Hearth—Wm. Brown
Brick Supt.—Fred Garbett
Chief Engr. and Draftsman—J. W. McHugh
Elec. Engr.—P. L. Werner
Safety Engr. and Storekeeper—James Kemp

M. M.—C. A. Hassel
PRODUCTS—Steel castings
Capacity—2,300 tons per month

PITTSBURGH STEEL PRODUCTS CO., Union Trust Bldg., Pittsburgh, Pa. Plants: Monessen and Allenport, Pa. (Subsidiary of Pittsburgh Steel Co.)
Pres.—Homer D. Williams
Vice Pres.—Emil Winter
Vice Pres.—Edw. H. Bindley
Treas.—W. C. Reitz
Asst. Treas.—Wm. L. Rowe
Asst. to Pres.—John T. Johnson
Sec.—H. J. Miller
Asst. Sec.—Ray Maxwell
Sales Mgr.—C. V. Lally
Pur. Agt.—Robert McMillan

(At Allenport, Pa., Plant)

Supt.—F. Gilmore
Supt. Cold Drawing—E. P. Schiffer
Supt. Hot Mills—W. Naliar
Supt. Finishing—Wm. Githens
Yard Master—R. W. Baxter
Gen. M. M.—J. W. Guvier
Power Engr.—J. E. Owen
Chief Elec.—E. W. Frazier
Storekeeper—Van Carson
Asst. Chief Clerk—T. E. Werton
Supt. of Pilger Mill—J. Brosig
Supt. Power Plant—J. E. Owen
Chief Chemist—S. H. Grapentine
Chief Insp.—V. W. West
Const. Engr.—C. R. Armstrong

(At Monessen, Pa., Plant)

Gen. Supt.—W. C. Sutherland
Supt.—J. D. Case
Supt. Hot Mills—F. J. Falise
Supt. Cold Drawn—L. Martz
Supt. Finish. Dept.—Ban Roberts
Supt. Specialty—B. A. Perkins
Supt. Drill Pipe Dept.—A. Gulland
Chief Engr.—W. M. Selkirk
Asst. Chief Engr.—E. C. Sleeman
Chief Elec.—J. Twiney
Elec. Engr.—A. A. Stewart
Power Engr.—J. E. Owen
M. M.—M. Steen
Const. Engr.—C. R. Armstrong
Chief Chemist—S. H. Grapentine
Chief Insp. Engr.—T. G. Stitt
Safety Engr.—J. Miller
Foreman Heat Treating—R. H. Rowley
PRODUCTS—Seamless, cold drawn and hot rolled steel boiler and mechanical tubing
Railroads—P. & L. E., Monongahela river

PITTSBURGH TOOL STEEL & WIRE CO., Monaca, Pa.
Pres.—Frank C. Eaton
Treas. and Sec.—Ralph H. Pauley
PRODUCTS—Cold drawn tool and alloy steels and drill rods

PITTSBURGH VALVE FOUNDRY & CONST. CO., 26th St. and A. V. R. R., Pittsburgh, Pa.
Pres.—C. A. Anderson
Vice Pres.—J. Roy Tanner
Treas. and Sec.—S. G. Patterson
Pur. Agt.—A. S. Carson
Vice Pres.—C. A. Anderson, Jr.
Supt. Fdry.—James Jones
Mgr. of Production—George J. Stuart
Chief Engr.—N. M. Templeton
Steam Engr.—John Craig
Met.—L. H. Berry
EQUIPMENT—Steel, gray iron and brass foundries, pattern shop, machine shops and pipe fabricating shop
PRODUCTS—Valves, fittings and power piping
Capital—$1,250,000
Railroads—Sidings, Penna., and B. & O.

POLLAK STEEL CO., THE, Temple Bar Bldg., Cincinnati, O. Works: Marion, O.
Chairman—E. Pollak
Pres.—Maurice E. Pollak
Vice Pres.—Julian A. Pollak
Treas.—C. M. Grimm
Pur. Agt.—E. J. Paque
Gen. Mgr.—A. C. Weihl

(At Marion, O., Plant)

Works Mgr.—R. H. Knecht
Supt.—Bert Martin
M. M.—Fred Campbell
Roll Designer—Wm. Lloyd
Head Rollers—Frank Evans and Knute Nordquest
PRODUCTS—Rolled steel bars, shapes, reinforcing bars, fence posts

PRATT & LETCHWORTH CO., 189 Tonawanda St., Buffalo, N. Y.
Chairman—W. H. Miner
Pres.—John C. Haswell
Vice Pres. Opr.—Keith Williams
Vice Pres. Sales—Arthur M. Edwards
Vice Pres.—Harry Hunter
Treas. and Sec.—Clinton E. Swank
Asst. Treas and Asst. Sec.—A. C. Christiansen
Pur. Agt.—Otto A. Dworak

PUGET SOUND IRON & STEEL WKS., THE, Tacoma, Wash.
Pres.—Ollie A. Roberts
Vice Pres.—A. C. Marconnier
Sec.-Treas. and G. M.—W. E. Morris
Gen. Supt. and Chief Engr.—E. L. Flatboe
Supt. Steel Fdry.—R. D. Wood
Gen. M. M.—J. B. Draper
Chief Draftsman—M. H. Ingalls
Foreman Machinist—J. H. Woolverton
Storekeeper—Fred. Mosher
Foreman Bessemer Converter—R. D. Wood
PRODUCTS—Steel castings, iron castings and engines

PULASKI IRON CO., Pulaski, Va. Mines at Eckman, W. Va.
Chairman—Isaac T. Mann, 1 Broadway, New York City
Pres.—Percival Johnson, 1008 Real Estate Trust Bldg., Philadelphia, Pa.
Vice Pres.—James Ellwood Jones, Pocahontas, Va.

Sec.—Hugh R. Hawthorne, 1 Broadway, New York City
Asst. Treas. and Asst. Sec.—Arthur Bleakley, Philadelphia, Pa.
Treas.—M. Bowman
Supt. B. F.—Owen M. Stull
Mech. Engr.—R. W. Stanbaugh
Mgr. Ore Mines—A. W. Gatewood
EQUIPMENT—18x80 foot blast furnace
Capacity—90,000 gross tons foundry pig iron per annum
Railroad—N. & W.

(At Eckman, W. Va.)

Mgr. Coal Mines—Floyd E. Cunnyngham
EQUIPMENT—445 coke ovens

PUNXSUTAWNEY FURNACE CO., Dubois, Pa. Furnace at Punxsutawney, Pa.
Pres.—L. W. Robinson
Sec.-Treas. and G. M.—F. G. St. Clair
Sales Mgr.—C. H. Emerick
Gen. Supt.—F. Becker

(At Punxsutawney, Pa.)

Gen. Supt.—Frank Becker
Supt. B. F.—John Law
M. M.—I. Blose

Q

QUEEN CITY FOUNDRY CO., corner 4th and Wazee Sts., Denver, Colo.
Pres.—Alfred Cordingly
Vice Pres. and G. M.—George A. Cordingly
Treas. and Sec.—W. C. Eichelberger
Chief Engr.—James W. Porter
Met.—A. C. Hovey
Chemist—W. C. Stewart
Foreman Gray Iron Fdry.—Frank Cordly
Gen. Foreman Steel Fdry.—Fred E. Horn
PRODUCTS—Iron and steel castings

QUINCY STEEL CASTINGS CO., 30 Fayette St., Quincy, Mass.
Pres. and Treas.—Roy G. Lundin
EQUIPMENT—Two 8-pot crucible furnaces
PRODUCT—Steel castings
Capacity—300 gross tons per year
Capital—$25,000; issued, $7,600
Railroads—N. Y., N. H. & H., B. & A., B. & M.

R

RACINE STEEL CASTING CO., 1442 Forest St., Racine, Wis.
Pres.—Judson F. Stone
Vice Pres., Sec. and Gen. Mgr.—C. S. Anderson
Treas.—Stanley Kitto
Pur. Agt. and Safety Engr.—E. O. Jones
Asst. to Sec.—J. M. Stone
Supt.—Geo. M. Goepfert
M. M.—Rusell Anderson
Elec. Engr.—Charles Finn
Met.—D. P. Spencer
PRODUCTS—Refined electric steel castings

RAIL JOINT CO., THE, 165 Broadway, New York, N. Y. Rolling Mill: Troy, N. Y.
Pres.—Victor C. Armstrong
Vice Pres.—W. Paton Thomson
Vice Pres. Sales—E. A. Condit, Jr.
Treas. and Sec.—Benjamin Wolhaupter
Asst. Treas. and Asst. Sec.—Stuart E. MacKellar
Pur. Agt.—Thomas Willet

(At Troy, N. Y., Plant)

Supt.—M. J. Maloney
Chief Engr.—B. A. Braine
Chief Elec. Engr.—M. O'Malley
Chief Draftsman—D. S. Barry
Safety—E. Gry
Roll Designer—W. Davies
Foreman Machinist—H. De Freast
EQUIPMENT—Two trains 20-inch with punches, bulldozer, slotter, etc.
PRODUCTS—Rail joints, track liners
Capacity—100 tons per day
Railroad—N. Y. C.

RAILWAY STEEL SPRING CO., 30 Church St., New York, N. Y. Plants: Two plants at Latrobe, Pa.; two plants, Chicago Heights, Ill.; East St. Louis, Ill.
Chairman—F. F. Fitzpatrick
Pres. and Gen. Mgr.—A. S. Henry
Vice Pres.—E. McCormick
Treas.—H. S. Banghart
Sec.—M. B. Parker
Asst. Sec.—C. K. Shreve
Asst. Treas.—B. C. Dunn
Pur. Agt.—H. C. Harrington
Capital—$13,500,000, preferred; $13,500,000, common

At Chicago Heights, Ill., Plant, 23rd St. and Euclid Ave.)

Supt.—J. J. Eckfeldt
Supt. O. H.—F. J. Bischoff
Safety Engr. and Chief Draftsman—Geo. D. Meyers
M. M.—W. D. Compton
Chief Chemist—Henry G. Martin
Supt. Forge and Rolling Mills—George W. Scypes
Chief Elec.—P. J. McGrane
Supt. Spring Mill—E. M. Sheehan
Steam Engr.—S. E. Hinds
Foreman Machinist—W. T. McKay
Brick Supt.—A. Favalesi
Storekeeper—F. L. Duncan
EQUIPMENT—Open hearth and heating furnaces, rolling mills, finishing machines
PRODUCTS—Steel tires, steel springs
Railroads—C. & E. I., E. J. & E., M. C., C. M. & St. P.

(At East St. Louis, Ill., Plant)

Supt.—W. O. Vane
M. M.—B. Bartholomew
Foremen—B. Burgoon, E. Haney and F. Richardson

(At Latrobe, Pa., Plant)

Gen. Supt.—J. H. Powell
Supt. O. H.—C. D. Fuller
Supt. R. M.—P. J. Reeves

Mech. Engr.—C. E. Byerson
M. M.—S. G. McAnulty
Steam Engr.—J. M. Howard
Chief Elec.—J. K. Witherspoon
Met.—P. J. Neely
Chief Chemist—C. D. Fuller
Foreman Machinists—W. C. Cole and G. A. Mowry

READING IRON CO., Baer Bldg., Reading, Pa.
Pres.—L. E. Thomas
Vice Pres.—J. M. Callen
Sec.—G. W. Delany
Treas.—N. W. Yost
Pur. Agt.—G. F. D. Hallman
Asst. Pur. Agt.—R. J. Wenger
Gen. Supt.—J. M. Koch
Gen. Supt. Blast Furnaces and Ore Mines—J. N. Sherer
Met. Engr.—J. P. Roe
Chief Engr.—G. L. Schuhmann
Const. Foreman—E. W. Wentzel
Sales Mgr.—H. F. Mattern
Asst. Sales Mgr.—F. M. English
Mgr. Bolier Tube Sales—G. H. Woodruffe
Mgr. Cut Nail Dept.—C. J. Maltzberger
Engr. Tests—C. T. Ressler
Adv. Mgr.—A. F. Hartranft

(At Tube Works, Reading, Pa.)
Supt.—J. H. Dowd
Asst. Supt.—E. H. Leonard
Engr. of Tests—C. T. Ressler
Gen. Foreman—H. C. Strafford
Production Engr.—J. H. Cooper
Chief Electrician—J. R. Penman
Chief Clerk—W. H. Koch
Chief Planner—E. J. Connolly
Chief Draftsman—A. Bailey
M. M.—F. Beck
PRODUCTS—Genuine wrought iron pipe, oil well casing and tubing, charcoal iron boiler tubes
Capacity—250,000 tons of tubular products in 552 different sizes and kinds

(Keystone Furnace, Reading, Pa)
Supt.—P. O. Wolf
M. M.—Chas. Schmale
Chemist—W. F. Heberle
PRODUCTS—Gray forge and foundry pig iron

(At Ninth St. Mills, Reading, Pa.)
Supt.—G. H. Johnston
Asst. Supt.—F. E. Foose
M. M.—Wm. Haines
PRODUCTS—Wrought iron skelp

(At Oley St. Mills, Reading, Pa.)
Supt.—D. J. Miller
Asst. Supt.—Wm. Housum
PRODUCT—Wrought iron skelp

(At Roe Puddler, Reading, Pa.)
Supt.—C. Bjorkbohm
Gen. Foreman—P. L. Walter
M. M.—F. P. Hause
PRODUCT — Wrought iron billets and muck bar

(At Scott Foundry, Reading, Pa.)
Supt.—J. H. Bickley
Asst. Supt.—E. Johnson
Chief Draftsman—Eric Lundberg
Smith Shop Foreman—Elwood M. Samsel
Pattern Shop Foreman—D. S. Paul
Mach. Shop Foreman—Wm. McLenegan
Foundry Foreman—John Peck
Boiler Shop Foreman—Willis C. Tobias
PRODUCTS — Maintenance and new installation work for Reading Iron Co., plants; designers and builders of general heavy machinery, including sugar cane mills, rolling mills, cotton compresses, engines, pumps, boilers, forgings, etc.

(At Charcoal Iron Plant, Reading, Pa.)
Supt.—Geo. L. Moore
Asst. Supt.—E. C. Himmelberger
M. M.—Geo. E. Maurer
PRODUCT — Charcoal iron skelp, muck bar

(At Pottstown, Pa., Plant)
Supt.—Geo. T. Arms
Foreman Nail Dept.—C. Noriadin
PRODUCT—Cut nails and muck bar

(At Danville, Pa., Montour Rolling Mills)
Supt.—H. T. Hecht
Asst. Supt.—J. W. Guyler
PRODUCT — Bar iron, muck bar and wrought iron skelp
Capacity — 40,000 tons bar, socket and skelp iron, 30,000 tons muck bars

(At Birdsboro, Pa., Birdsboro Plant)
Supt.—J. T. Riley
Capacity—18,000 tons rolled products and 100,000 kegs cut nails

(At Columbia, Pa., Columbia Mills)
Supt.—L. S. Bortz
Capacity—20,000 tons muck bars and 18,000 tons skelp

(At Emaus, Pa., Crumwold Furnace)
Acting Supt.—R. C. D. Palm
Capacity—62,000 tons pig iron

(At Kimmelton, Pa., Somerset Coal Mines)
Supt.—G. J. Krebs
Capactiy—150,000 tons bituminous coal

READING STEEL CASTINGS CO., Reading Pa. (Reading Steel Div.; Reading Valve and Fittings Div.; Reading Specialties Div.)
Pres.—W. B. Lashar, Bridgeport, Conn.
Vice Pres. Sales—W. T. Morris, Bridgeport, Conn.
Treas.—W. F. Wheeler, Bridgeport, Conn.
Sec.—W. M. Wheeler, Bridgeport, Conn.
Gen. Mgr.—M. L. Johnson
Pur. Agt.—E. J. Flemming
Foundry Supt.—J. McKeone
Machine Shop Supt.—J. Tolland
Chief Engr. — B. B. Hood, Bridgeport, Conn.
M. M.—E. Greene
Met.—E. Bartells
Safety Engr.—A. M. Johnson
Storekeeper—H. Geesey
EQUIPMENT — Steel foundry, machine shop, pattern shop, etc.

PRODUCTS — Steel castings, valves and fittings
Capacity—1,000 tons per month
Railroad—Reading

REED FOUNDRY & MACHINE CO., Kalamazoo, Mich.
Pres.—Joseph E. Brown
Vice Pres.—H. C. Lutje
Treas., Sec. and G. M.—J. E. Welborn
PRODUCT—Steel castings
Capacity—2,000 tons annually

REEVES MFG. CO., THE, Dover, O.
Pres.—H. C. Greer
Treas. and Gen. Mgr.—A. J. Krantz
Sec. and Pur. Agt.—Joseph A. Krantz
Gen. Supt.—Clem Schamp
Supt. Finishing Mills—James Hilton
M. M.—John Miller
Draftsman—M. L. Hunker
PRODUCTS—Black and galvanized steel sheets
Capacity—60,000 tons
Capital—$1,000,000
Railroads—Penna. and B. & O.

RELIANCE COKE & FURNACE CO., Frick Bldg., Pittsburgh, Pa. Furnace: Sharpsville, Pa.
Pres.—E. W. Mudge
Treas.—C. B. Ferree
Sec.—R. G. Campbell
Gen. Mgr.—O. G. Leichliter

(At Sharpsville, Pa., Furnace)
Gen. Supt.—E. J. McCleary
Supt. B. F.—G. W. Cubbage
M. M.—Daniel Carbaugh
Chief Chemist—E. Pershka
EQUIPMENT—One blast furnace
PRODUCT—Pig iron
Capacity—500 tons

RELIANCE STEEL CASTING CO., 28th and Smallman Sts., Pittsburgh, Pa.
Pres.—Joseph A. Kelly
Vice Pres., Treas. and G. M.—E. A. Blasdell
Sec.—C. L. Snowden, Jr.
Pur. Agt.—J. G. Thompson
Gen. Supt.—Joseph N. Snyder
EQUIPMENT—One open hearth furnace
PRODUCT—Steel castings
Capacity—6,000 tons annually

REPUBLIC IRON & STEEL CO., General offices, Republic Bldg., Youngstown, O. Plants: Moline, Ill.; Muncie, Ind.; Niles and Youngstown, O.
Chairman—John A. Topping
Pres.—Thomas J. Bray
1st Vice Pres.—H. L. Rownd
2nd Vice Pres. Opr.—J. W. Deetrick
Mgr. Sales—W. B. Topping
Sec.—Richard Jones, Jr.
Treas.—Herman M. Hurd
Pur. Agt.—S. H. Hedges
Traffic Mgr.—E. F. Kidd
Gen. Supt.—P. J. Gordon
Asst. Gen. Supt.—Caleb Davies, Jr.
Supt. Coke Works—R. B. Marshall
Supt. B. F. and O. H. Wks.—C. E. Crowther
Supt. Northern Furnaces—W. A. Haven
Supt. O. H. Wks.—R. L. Leventry
Supt. Tube Wks.—J. Baxter
Supt. Bessemer and Brown-Bonnell Wks.—F. C. Cunningham
Supt. Bessemer Wks.—J. P. Welsh
M. M. Blast Furnaces—H. L. Burnham
M. M. O. H. Wks.—H. G. Blevins
M. M. Tube Wks.—L. G. Howard
M. M. Brown-Bonnell and Bessemer Wks.—R. T. Prall
M. M. Coke Wks.—W. R. Rolke
Chief Engr.—S. H. McKee
Asst. Chief Engr.—R. D. Crevoise
Chief Elec.—M. W. Cobbledick
Chief Draftsman—S. D. Cooper
Asst. Chief Draftsman—J. C. Clauss
Efficiency Engr., Heat and Power—G. C. Emmons
Chief Insp. Dept.—L. B. Grindlay
Foreman Heat Treating—C. W. Yetter

(At Youngstown, O., Brown-Bonnell Plant)
Gen. M. M.—R. T. Prall
Elec. Engr.—George Pitcher
Chemist—Joseph Mayberry
Asst. Chemist—Fred Edwards
Foreman Converter — David Dickey and George Moyer
Foreman Mill—David Reese
Chief Clerk—Howard Orr

(At Sylvan Island, Moline, Ill.)
Supt. R. M.—P. C. Rasmussen
M. M.—Ben W. Carlson

(At Muncie, Ind., Plant)
Supt.—C. W. Tesch
M. M.—Ed. Mongrain

(At DeForest Tin Plate Plant, Niles, O.)
Supt.—Samuel Brown
Asst. Supt.—F. F. Beckert
Chemist—A. Montzheimer
M. M.—Joseph Zellers
Foreman Hot Mill—Elmer Irvin
Annealer—Edward Manion

REPUBLIC ROLLING MILL CORP., East Chicago, Ind. Formerly bar mill of Republic Iron & Steel Co.
Pres.—J. H. Turivas
Vice Pres.—Earl T. Smith
Treas. and Sec.—Richard Jones
Asst. to Pres.—Charles T. Scott
Mgr.—J. G. Bladholm

RHODE ISLAND CRUCIBLE STEEL CO., 604 So. Main St., Providence, R. I.
Pres. and G. M.—Geo. C. Hagstrom
Vice Pres.—Frederick A. Hagstrom
Sec.—Albert B. Benson
Treas.—Carl W. Sverker
Gen. Supt.—Carl J. Jernstrom
PRODUCT—Electric steel castings

RHODE ISLAND MALLEABLE IRON WORKS, Hillsgrove, R. I.
Pres.—Charles Brown
Vice Pres. Opr. and Sales—H. L. Steeves
Treas.—J. H. Dickinson
Sec.—F. E. Grinnell
Gen. Supt.—K. H. Hamblin

PRODUCTS—Malleable iron jobbing foundry
Capacity—20 tons daily
Capital—$1,000,000; issued, $400,000
Railroad—N. Y., N. H. & H.

RHODE ISLAND STRIP STEEL CO., Phillipsdale, R. I.

RIDDELL CO., W. A., Bucyrus, O. (Successors to Era Steel Co. and The Hadfield Penfield Steel Co.)
Pres. and Gen. Mgr.—W. A. Riddell
Vice Pres.—M. O. Garner
Sec. and Treas.—Geo. M. Schmidt
Pur. Agt.—V. M. Virtue
Gen. Supt.—J. E. Place
PRODUCTS—Manufacturers of carbon and manganese steel castings

RIVERSIDE STEEL CASTING CO., Plank Road and Passaic River, Newark, N. J.
Pres.—J. W. Ferguson
Vice Pres. Opr.—J. Philip Bird
Treas. and Sec.—J. S. Kinne
Pur. Agt.—D. C. Guldner
Gen. Supt.—C. J. Jernstrom
Supt. O. H.—John Sullivan
Chief Engr.—G. Griggs
PRODUCTS—Steel castings

ROANE IRON CO., Chattanooga, Tenn. Furnace at Rockwood, Tenn.
Pres.—E. O. Wells
Vice Pres.—R. H. Kimball
Sec. and Treas.—M. Chamberlain

(At Rockwood, Tenn., Furnace)

Gen. Supt.—Howard Howie
Asst. Gen. Supt.—J. H. Patten
Supt. B. F.—M. H. Phillips
Supt. Coke Oven Dept.—J. A. Rodgers
Chief Engr.—J. B. Ford
M. M.—Thomas Green
Chief Chemist—W. M. Mills
EQUIPMENT—Two blast furnaces
PRODUCTS—Pig iron
Capacity—140,000 tons per year
Railroads—Tenn., Cent. and Southern

ROANOKE IRON WORKS, INC., Holliday St., Roanoke, Va.
Treas. and Sec.—G. C. McDonald
Gen. Mgr.—B. W. Stonebroker
PRODUCTS—Ornamental iron work

ROCKAWAY ROLLING MILL, THE, Pine St., Rockaway, N. J.
Pres.—Edward Ehlers
Treas. and Sec.—F. K. Ehlers
EQUIPMENT — One 4-stand 3-high 14″ mill, one 6-stand 3-high 10″ mill, one 1-stand 3-high 10″ mill, already erected. One 4-stand 3-high 16″ mill, one 1-stand 3-high 20″ mill, to be erected. Five heating furnaces
PRODUCTS—Rounds, squares, flats, angles, beams and channels

ROEBLING SONS CO., JOHN A., 612 S. Broad St., Trenton, N. J.
Pres.—F. W. Roebling, Jr.
1st Vice Pres., Treas. and Gen. Mgr.—William A. Anderson
2nd Vice Pres.—Siegfried Roebling
Sec. and Asst. Treas.—A. C. Cooley
Asst. to Sec.—Harvey Cooley
Pur. Agt.—J. W. Gaskill
Supt. O. H.—W. Gummere
Asst. Supt. O. H.—R. A. Mercur
Supt. Roll Mill—F. J. Miller
Chief Engr.—F. W. Bunn
Chief Elec.—H. P. Harth
M. M.—G. W. Williams
Steam Engr.—H. S. Hunt
Met.—H. C. Boynton
Safety—B. C. Hansom
PRODUCTS—Wire, wire rope, cold strip and insulated wire and cables
Capacity—150,000 tons
Capital—$34,500,000
Railroad—Penna.

ROGERS BROWN IRON CO., P. O. Box 216, Buffalo, N. Y.
Pres.—Wm. S. Rogers
Vice Pres.—E. L. Ives
Vice Pres. and Pur. Agt.—C. R. Holzworth
Sec.—E. H. Letchworth
Treas. and Pur. Agt.—C. H. Byron
Asst. Treas. and Asst. Sec.—Edward Cornelius
Gen. Supt.—T. W. Harris
M. M.—Roy L. Bright
Chief Chemist—G. A. Beaumont
Safety Engr.—G. H. Waldron
Foreman Mach.—Charles Fink
Storekeeper—Geo. W. Escott
EQUIPMENT—Four blast furnaces
Capacity—1,400 tons per day
Capital — $8,000,000; issued $7,550,000 - bonds issued, $8,301,900
Railroads—Connections with Penna., L. V., and other trunk lines in connection with the South Buffalo Ry.

ROME IRON MILLS, INC., 17 E. 42nd St., New York, N. Y. Plant: Rome, N. Y.
Chairman—B. A. Clements
Pres. and Treas.—Lee Deutsch
Sec. and Asst. Treas.—J. A. Van Voorhies

(At Rome, N. Y., Plant)

Gen. Supt.—J. M. Strawbridge
Gen. M. M.—O. R. Diely
Elec. Engr.—J. L. Griffin
Chemist—J. E. Waller
Asst. Chemist—Lewis Sykes
Gen. Foreman—Thomas Parke
Roll Designer—James Maloney
PRODUCT—Straybolt and engine bolt iron

ROME WIRE CO., Rome, N. Y.
Pres.—H. T. Dyett
Vice Pres.—E. M. Potter
Vice Pres.—C. R. Keeney
Treas.—H. W. Barnard
Sec.—E. H. Ethridge
Supt.—M. A. Kent
PRODUCT—Copper wire

ROSS-MEEHAN FOUNDRIES, Carter St. and Belt Ry., Chattanooga, Tenn.
Pres. and Gen. Mgr.—G. F. Meehan
Vice Pres.—Frank M. Robbins

Treas. and Sec.—H. Bond
Pur. Agt.—T. D. Buford
Supt. Elec. Steel Fdry.—D. W. Phillips
Asst. Supt. Steel Fdry.—Wm. B. Greiser
Supt. Malleable Fdry.—Roger Egan
Supt. Gray Iron Fdry.—John McGaughey
Chief Engr., M. M. and Mach. Shop Supt.—James Lucas
Mech. Engr.—J. S. Hartley
Elec. Engr.—Louis Gaither
Met. and Chem.—Paul H. Stuff
Safety Engr.—C. D. Genter
EQUIPMENT—3-ton electric furnace, 1-ton Tropenas converter, 5 reverberatory furnaces, 5 cupolas
PRODUCTS—Electric steel castings, electrically annealed, converter steel castings, certified malleable iron castings, Meehanite metal castings, semi-steel and gray iron castings
Capacity—70,000 tons annually
Capital—$1,260,000
Railroads—Belt Ry. connecting with eight different lines

ROTHERT STEEL CORP., 600-648 Othello St., Seattle, Wash.
Pres. and Gen. Mgr.—E. H. Rothert
Sec.—Geo. H. Rummens

(At Plant, 622 Othello St.)

Gen. Supt.—J. B. McNutt
Asst. Gen. Supt.—M. Hendrickson
Elec. Engr.—K. M. Grayson
Met. and Chemist—E. H. Rothert
EQUIPMENT—Two 2-ton electric furnaces
PRODUCTS—High grade special tool steel

ROWLAND'S SONS, INC., T., Cheltenham, Pa. (Subsidiary of Ames Shovel & Tool Co.)
Mgr.—F. H. Lewis

RUSSELL, BURDSALL & WARD BOLT AND NUT CO., Midland Ave., Port Chester, N. Y. Plants: Rock Falls, Ill. and Coraopolis, Pa.
Pres.—W. L. Ward
Vice Pres. and Gen. Mgr.—Evans Ward
Treas. and Sec.—Ellwood Burdsall
Asst. Treas. and Mgr. of Sales—Walter S. Comly
Pur. Agt.—H. E. Marshall
Machinery Supt.—Wm. D. Rigney
Supt.—Howard C. Rigney
PRODUCTS—Bolt, nuts, rivets, washers, etc.
Capacity—45,000 tons annually

(At Rock Falls, Ill., Plant)

Mgr.—A. N. Bradford
Asst. Mgr.—W. H. Hoofstitler
Gen. Supt.—Wm. E. Hill
Steam Engr.—L. E. Shonts

(At Pittsburgh Plant, Coraopolis, Pa.)

Manager—A. N. Bradford
Asst. Mg.r—M. L. Douglas

RUSTLESS IRON CORP. OF AMERICA, Loneys Lane and Penna. R. R., Baltimore, Md.
Pres.—Alvyn H. Wild, 26 Broadway, New York City
Vice Pres. and Treas.—Ronald Wild
Sec.—C. C. Brookes, 26 Broadway, New York City
Met.—Edgar K. Mull
EQUIPMENT—Five 7-ton Heroult electric melting furnaces, 20" cogging mill, 14" and 9" bar mill, etc.
PRODUCTS—Carrosion resisting and heat resisting metals, "Defirust," "Special Defirust" and "Defistain" brands
Railroads—Own siding, Penna.

RYAN FOUNDRY CO., THE, D. J., Mill St., Ecorse, Detroit, Mich.
Pres. and G. M.—D. J. Ryan
Vice Pres., Treas. and Gen. Supt.—L. J. Feltes
Asst. Treas.—J. L. Hunt
Sec.—R. J. Lamb
Pur. Agt. and Prod. Mgr.—F. P. Hammer
Asst. Gen. Supt.—W. H. Miller
Met.—A. Tanzer
Elec. Engr.—R. Glover
M. M.—E. Koslofski
Safety Engr.—C. W. Hawk
PRODUCTS—Semi-steel and grey iron castings
Capacity—125 tons per day
Railroad—D. & T. Shore Line

S

SAFETY CABLE COMPANY, 114 Liberty St., New York, N. Y.
Pres.—W. F. Field
Vice Pres.—G. M. Haskell
Vice Pres.—G. T. Cottle
Vice Pres.—D. R. G. Palmer
Treas. and Sec.—W. C. Hall
Controller and Asst. Treas.—F. E. George
Pur. Agt.—A. W. Newson

(At Bayonne, N. J., Plant)

Supt.—G. W. Amann
Pur. Agt.—A. W. Newson
Chief Draftsman—W. H. McKnight
Chemist—J. S. Boyle
Gen. Foreman—C. W. Potter
Steamfitter—J. Reich

ST. LOUIS FROG & SWITCH CO., 6650 Easton Ave., St. Louis, Mo.
Pres.—John J. Lichter
Vice Pres.—R. S. Conlon
Treas.-Sec.—R. E. Einstein
Asst. Sec. and Chief Engr.—F. C. Argust
Asst. Treas.—W. J. Allen
Pur. Agt.—E. R. Laux
Gen. Supt.—H. L. Liebig
Steam Engr.—Edw. Paschal
PRODUCTS—Manufacturers track work, frogs, switches, crossings of every description

ST. LOUIS GAS & COKE CORP., (Formerly St. Louis Coke & Iron Co.), 208 S. LaSalle St., Chicago, Ill.
Pres.—W. G. Maguire
Vice Pres. and Gen. Mgr.—M. D. Curran

Compt.—A. J. Mann
Sec.—Peter B. Nelson
Pur. Agt.—C. A. Wieselthier
Pur. Agt. Raw Materials—F. R. Johnson

(At Granite City, Ill., Plant)

Gen. Supt.—Geo. F. Vosburg
Asst. Gen. Supt.—Wm. A. Sloss
Supt. B. F.—M. F. McAvoy
Chief Engr.—Paul M. Crider
Elec. Engr.—G. R. Thatcher
Steam Engr.—S. M. Tyler
Safety Engr.—Walter Clark
M. M.—J. M. Thompson
Chemist—R. C. Page
Supt. Coke Ovens—G. W. England
Storekeeper—E. H. Paradise
PRODUCTS—Pig iron, coke and by-products

ST. LOUIS PUMP & EQUIPMENT CO., 3701 Forest Park Blvd., St. Louis, Mo.
Pres.—C. C. Fredericks
Vice Pres., Opr. and Chief Engr.—Sherwood Hinds
Works Mgr.—Jule Bender
PRODUCTS—Liquid handling equipment and filling stations
Capital—$500,000

ST. LOUIS SCREW CO., Clarence and Bulwer Aves., St. Louis, Mo.
(North Plant and South Plant)
Pres. and G M.—Edw. J. Miller
Vice Pres. and Asst. G. M.—Ewd. H. Miller
Treas.-Sec.—Geo. Gruenewald
Pur. Agt.—George Renard
Sales Mgr.—A. E. Krug
Gen. Supt.—Gus Froelich
Mech. Engr.—John B. Schuch
Steam Engr.—Henry Mayers
Safety Engr.—H. W. Pilgrim
Supt. Elec. Dept.—Edward Bosch
Supt. Forge Shop—Martin Hassell
EQUIPMENT—Rolling mills, bolt and screw departments, galvanizing
PRODUCTS—Bar iron, bolts, nuts, screws, screw machine products, spikes and washers
Capacity—50,000 tons per year
Capital Stock and surplus, $1,900,000; bonds issued, $400,000
Railroads—M. B. and Terminal serving all lines

ST. LOUIS SHOVEL CO., Sarah and Duncan Sts., St. Louis, Mo. (Subsidiary Ames Shovel & Tool Co.)
Mgr.—Ernest N. Birge

ST. LOUIS STEEL CASTING CO., 100 Malt St., St. Louis, Mo.
Chairman—Jos. Teipel
Pres.—W. F. Heinecke
Vice Pres. and Gen. Mgr.—C. A. Binder
Treas.—J. L. Mahoney
Sec.—F. G. Langbein
Gen. Supt.—Jos. Haas
EQUIPMENT — 3½-ton Bessemer side blow converter
PRODUCTS—Commercial steel castings
Capital—$90,000
Railroads—Mo. Pac., Iron Mtn., main lines

SAWBROOK STEEL CASTINGS CO., THE, Shepherd and McWhorter Sts., Lockland, Cincinnati, O.
Pres.—E. S. Sawtelle
Vice Pres.—A. E. Anderson
Treas.—E. L. Brooks
Sec. and Pur. Agt.—A. A. Stroppel
Gen. Supt.—W. F. Wright
Asst. G. S.—John C. Lynch
Supt. Elec.—George Wilkes
Elec. Engr.—W. H. Hissett
Met.—Dale Hubley
EQUIPMENT—Electric furnace
PRODUCTS—Steel castings
Capacity—2,400 tons per annum
Capital—$300,000; issued, $250,000
Railroad—Big Four switch

SCRANTON BOLT & NUT CO., Poplar St., Scranton, Pa.
Vice Pres.—C. E. Brodhead
Treas. and Sec.—J. R. Lerch
Gen. Supt.—J. E. Rushmore
Foreman Machine Shop—Jacob Wettereau
EQUIPMENT—Rolling mills and factories
PRODUCTS—Bar iron, bolts, nuts, track bolts, spikes, etc.
Capacity—50,000 tons annually
Capital—$750,000; Bonds issued $250,000
Railroads—D. L. & W., D. & H., N. Y. O. & W., C. R. R. of N. J.

SCULLIN STEEL CO., 6700 Manchester Ave., St. Louis, Mo.
Pres.—Harry Scullin
Asst. to Pres.—T. W. Murphy
Vice Pres. Sales—A. J. Davis
Vice Pres. Sales East. Div.—F. L. Norton
Vice Pres. and Treas.—V. C. Turner
Sec.—E. F. Judge
Pur. Agt.—H. M. Dryer
Supt. Order Dept.—A. C. Traub
Supt. Steel Fdry.—H. E. Doerr
Asst. Supt. Steel Fdry.—W. C. Bliss
Supt. O. H.—J. A. Murphy
Supt. Rolling Mills—W. W. Leck
Chief Engr.—G. S. Chiles
Elec. Engr.—W. Davis
EQUIPMENT—11 30-ton O. H. furnaces, one 24-inch, one 12-inch, one 16-inch rolling mills
PRODUCTS—Steel bars, shapes, tie plates, bolsters, side frames and castings
Capacity—175,000 tons per annum
Capital—300,000 shares common, no par value; 100,000 shares preferred
Railroads—Main line Mo. Pac. and Frisco Railroads, 6 miles tracks on property of 100 acres

SEAMLESS STEEL TUBE CO., 1160-1170 Spencer St., Appleton, Wis.
Gen. Supt.—George J. Thust
EQUIPMENT—Piercing mill and furnace, break-down mills, three finishing mills, 12 draw benches, 6 straightening machines, three annealing furnaces
PRODUCT—Seamless steel tubes

SELLERS MFG. CO., 4705 Montrose Ave., Chicago, Ill.
Pres.—John M. Sellers
Vice Pres. and Gen. Mgr.—R. A. Van Houten
Vice Pres. and Treas.—E. P. Ward
Vice Pres. and Sec.—George M. Hogan
Asst. Treas.—W. H. Seigmund
Pur. Agt.—H. J. Stumpf
Gen. Supt.—Fred Knaus
Asst. Gen. Supt.—S. Bjurstrom
Chief Elec.—W. H. Anderson
M. M. and Foreman Mach.—Bernard Knaus
Safety Insp.—Frank Nelson
Storekeeper—A. Johnson
EQUIPMENT—Three 5-door reverberatory heating furnaces, 6 rotary busheling furnaces
PRODUCTS — Sellers anchor bottom wrought iron tie plates
Capacity—50,000 gross tons per year
Capital—$450,000

SENECA IRON & STEEL CO., P. O. Box 485, Buffalo, N. Y. Plant: Blasdell, N. Y.
Pres.—Hugh Kennedy
Vice Pres.—James S. Paterson
Vice Pres. and G. M.—K. L. Griffith
Vice Pres.—Clifford Hubbell
Treas.—Alex Paterson
Sec.—T. W. Paterson
Pur. Agt.—H. E. Mitchell

(At Blasdell, N. Y., Plant)
Supt. Roll. Mill—M. B. Sunderland
Asst. Supt. Roll. Mill—A. P. Lucas
M. M.—Carl Kuhles
EQUIPMENT—18 sheet mills
PRODUCTS—Steel sheets
Capacity—120,000 net tons per annum

SEYMOUR MFG. CO., 87 Franklin St., Seymour, Conn.
Pres.—F. S. Jerome
Treas.—C. S Boies
Asst. Treas.—B. H. Matthies
Sec.—O. F. G. Boker
Pur. Agt.—F. G. Space
Gen. Supt.—J. F. Halpin
Asst. Gene. Supt.—J. J. Malone
Chief Engr.—L. N. Burhoe
Mech. Engr.—Wm. Bradshaw
PRODUCTS—Nickel silver, phosphor bronze, brass, nickel anodes, cupro nickel

SHARON FOUNDRY CO., P. O. Box 541, Sharon, Pa. Plant: Wheatland, Pa.
Chairman—K. A. Way
Pres.—L. A. Way
Treas. and Sec.—R. P. Allen
Asst. Sec.—Jane Kennedy

(At Wheatland, Pa., Plant)
Gen. Supt.—John Seibel
Supt. O. H.—Patrick Merrick
Chief Engr —D. P. Warner
M. M.—E. C. Irwin
Chemist—John Marquard
EQUIPMENT—Two 20-ton acid O. H. furnaces
PRODUCTS—Rolling mill and jobbing steel castings
Capacity—800 to 1,000 tons steel-castings per month
Capital—$500,000; issued, $492,000
Railroads—Penna. and Erie

SHARON STEEL HOOP CO., Sharon, Pa. Plants: Sharon and Greenville, Pa.; Youngstown, and Lowellville, O.
Pres.—Severn P. Ker
Vice Pres.—H. T. Gilbert
Vice Pres.—Lloyd W. Smith
Vice Pres. and Gen. Supt.—Truston P. Draper
Asst. to Vice Pres.—C. B. Gleason
Treas. and Sec.—J. R. Evans
Asst. Treas. and Asst. Sec.—Mason Evans, Jr.
Pur. Agt.—A. D. Troth
Mgr. Sales—B. E. Kibbee
Asst. Mgr. Sales—A. S. Booth and A. M. Brown
Traffic Mgr.—E. R. Griffith
Chief Engr.—Geo. S. Warren
Chem. and Met.—H. S. Marsh
Safety Engr.—E. J. Russert

(At Sharon, Pa., Plant)
Plant Supt.—G. W. Peffer
Asst. Plant Supt.—E. E. Reagle
Gen. Supt.—W. B. Caldwell
Supt. Finishing Mills—Joseph Uhl
Supt. Galv. and Pickling—H. C. Bachman
Supt. Roll Shop—Morgan Price
Supt. Labor and Transp.—James McCarthy
Supt. Emp. and Police—R. A. Irvine
Supt. Blast Furnace—Clyde Butler
Supt. O. H.—Milton Hughes
Chief Engr.—Geo. S. Warren
Asst. Chief Engr.—S. R. Russell
M. M.—George Smith
Chief Elec.—John L. Barker
EQUIPMENT—One 8-inch mill, one 9-inch mill, one 10-inch hoop and band mill, one 14-inch strip mill, pickling and galvanizing depts., one blast furnace, six open hearth furnaces, one 34-inch blooming mill, one 21-inch slab mill, 9 sheet mills
PRODUCTS—Hoop, band, strips and sheet steel
Capacity—250,000 N. T. hoop bands and strip steel; 100,000 N. T. sheet steel; total 350,000
Capital Stock—$16,500,000
Railroads—Erie, P. R. R. and N. Y. C.

(At Lowellville, O., Plant)
Gen. Supt.—F. M. Hughes
Asst. Gen. Supt.—Joseph Carter
Supt. B. F.—R. C. Butler
Supt. Roll Mill—Homer S. Morrison
M. M.—H. P. Reese
Chief Elec.—R. J. Jones
Chemist—L. B. Perkins
Supt. O. H.—Wm. Schofield
Supt. Elec. Steel—O. R. Jones
Chief Engr.—George S. Warren
Met.—H. S. Marsh
Chief Draftsman—C. Kyle
Safety—Alfred Dyer
Roll Designer—W. C. Grist

Foreman Machinist—A. Denham
Storekeeper—Ralph Dodson
EQUIPMENT—One blast furnace, six 100 ton open hearth furnaces, one blooming mill, one bar and sheet mill

(At Youngstown, O., Plant)

Gen. Supt.—Joseph Malborn
Supt. Sheet Mills—W. C. McKinstry
M. M.—Leo A. Teachout
Chief Elec.—Charles Bowen
Met.—R. C. Cochran
Engr. Test.—H. F. Marsh
Chief Clerk—A. C. Davidson
Special Agt.—E. J. Russert
EQUIPMENT—Nine sheet mills

SHARPSVILLE FURNACE CO., THE, 2119 Oliver Bldg., Pittsburgh, Pa. Furnace: Sharpsville, Pa.
Pres.—George S. Davison
Treas.—Allen S. Davison
Sec.—Albert P. Meyer
Fur. Agt.—Wm. H. Price

(At Sharpsville, Pa., Furnace)

Gen. Mgr.—Andrew M. Kennedy
M. M.—B. F. Driscoll
Chem.—Glen Titus
PRODUCTS — Bessemer, malleable and foundry pig iron
Capacity—160,000 tons annually

SHEFFIELD STEEL CORP., Independence Ave. and Bristol St., Kansas City, Mo. Successors to Kansas City Bolt & Nut Co.
Pres.—W. L. Allen
Asst. to Pres.—Ernest Baxter
Vice Pres. R. L. Gray
Treas.—H. R. Warren
Sec.—L. L. Middleton
Sales Mgr.—J. C. Shepherd
EQUIPMENT—Three 65-ton O. H. furnaces, 3-stand 24-inch 3-high billet, 11-stand Morgan semi-continuous bar mill, 8-stand 16-inch and 10-inch bar mill
PRODUCTS—Blue annealed sheets, new billet and rerolled rail reinforcing bars, merchant bars, iron or steel, oil field and car forgings, bolts, nuts, railroad spikes
Capacity—150,000 tons annually
Railroads—Mo. Pac., or K. C. Terminal

SHELBY IRON CO., Shelby, Ala.
Pres.—M. W. Bush, Birmingham, Ala.
Vice Pres.—Horace Hammond, Birmingham, Ala.
Treas., Sec. and G. M.—J. G. Hendrick
Gen. M. M.—E. D. Craddock
PRODUCT—Charcoal pig iron
(Plant Idle)

SHENANGO FURNACE CO., 812 Oliver Bldg., Pittsburgh, Pa. Furnace at Sharpsville, Pa.
Pres.—W. P. Snyder, Jr.
Vice Pres.—G. D. Dyer
Vice Pres. and Gen. Mgr.—J. L. Collard
Treas.—Frank A. Demms
Sec.—H. M. Wilson

(At Sharpsville, Pa., Furnace)

Gen. Supt.—P. O. Menke
Supt.—Harry Swym
Elec. Engr.—Harry Williams
Draftsman—Frank J. Lauthner
M. M.—Harry A. Anderson
PRODUCTS—Ingot molds, castings and stools
Railroads—Penna., Erie, N. Y. C. and B. & O.

SHENANGO-PENN MOLD CO., 812 Oliver Bldg., Pittsburgh, Pa. (Subsidiary of Shenango Furnace Co.)
Chairman—Wm. P. Snyder, Jr.
Pres.—H. S. Bradley
Vice Pres.—Geo. L. Collard
Treas.—F. A. Demms
Sec.—H. M. Wilson

(At Sharpsville, Pa.)

Gen. Mgr.—F. W. Tickner
Elec. Engr.—Harry Williams
M. M.—Harry A. Anderson
Draftsman—Frank J. Lauthner
PRODUCTS—Ingot molds, stools, castings
Railroads—Penna., Erie, N. Y. C., B. & O.

SIMONDS SAW & STEEL CO., 470 Main St., Fitchburg, Mass. Steel plant at Lockport, N. Y.
Pres.—A. T. Simonds
Asst. to Pres.—John G. Thompson
Vice Pres.—T. F. Howarth
Vice Pres. and Gen. Mgr.—G. K. Simonds
Treas.—H. K. Simonds
Asst. Treas.—G. L. Parmenter
Sec.—J. E. Kelly
Pur. Agt.—A. I. Field

(At Lockport, N. Y., Plant)

Gen. Supt.—W. G. Merriman
Asst. Gen. Supt.—F. J. Hillwig
Chief Engr.—M. B. Pfau
Chief Elec.—R. J. Hartley
M. M.—Frank Hartley
Met.—A. D. Potts
Chemist—Maurice Windle
Safety Insp.—C. P. White
Roll Designer—Harry G. Schwartz
Storekeeper—J. Shaeffer
PRODUCTS—Steel sheets and bars, steel plates for manufacturing saws, knives and files

SIVYER STEEL CASTING CO., 37th Ave. and Mitchell St., Milwaukee, Wis.
Pres.—Fred L. Sivyer
Vice Pres.—C. R. Messenger
Vice Pres. and Sec.—Lamar S. Peregoy
Treas.—B. A. Zikmund
Pur. Agt.—Wm. F. Stremke
Gen. Supt.—Charles St. Clair
Chief Engr.—Geo. Singer
Met.—David Zurge
EQUIPMENT—Electric furnace, one 3-ton 3 phase Moore electric furnace, one ½-ton 3-phase Moore electric furnace, one 8-ton heavy duty electric annealing furnace
PRODUCT—Electric steel castings
Capacity—500 tons monthly

SKAGIT STEEL & IRON WORKS, Sedro Woolley, Wash.
Pres. and Gen. Mgr.—D. G. McIntyre
Vice Pres.—S. S. McIntyre
Treas. and Sec.—W. E. Berry
Pur. Agt.—E. B. Devener
Supt. Fdry.—E. H. Clinchard
M. M.—H. O. Sanford
Chief Draftsman—S. J. Front
Storekeeper—Ralph Miller
PRODUCTS—Steel, iron and brass castings; M. A. C. gasoline driven equipment, including donkeys, hoists, locomotives and rail cars and coaches; general jobbing and repairing, principally for cement mills and logging industry
Capital—Stocks and surplus, $210,000; bonds issued, $50,000
Railroads—Great Northern, N. P.

SLOSS SHEFFIELD STEEL & IRON CO., American Trust Bldg., Birmingham, Ala. Furnaces: Birmingham, No. Birmingham, Sheffield and Gadsden, Ala.
Chairman—Waddill Catchings
Pres.—Hugh Morrow
Vice Pres.—J. P. Dovel
Vice Pres.—F. W. Miller
Asst. to Vice Pres. Opr.—R. B. LeMay
Treas. and Sec.—Russell Hunt
Asst. Treas. and Asst. Sec.—L. D. Burr
Asst. Sec.—J. S. Larkin
Pur. Agt.—W. B. Dowell
Gen. Supt. Mines—H. J. Thomas
Supt. Blast Furnaces—John W. England and C. O. Barks
Constr. Engr.—J. G. Hanlin
Chief Engr.—A. R. Houston
Chief Elec. Engr. and M. M.—A. F. Elliott
Steam Engr.—E. P. Winters, No. Birmingham
Mgr. Safety Dept.—D. S. Anderson
Chemist—R. T. Pittman
EQUIPMENT—Eight blast furnaces, ore and coal mines, quarries and by-product plant
PRODUCT—Pig iron, coal, ore, stone, coke and by-products
Capacity—2,300 tons pig iron daily
Capital—$20,000,000; issued, $16,700,000
Railroads—So. Ry., L. & N., I. C., Frisco, C. of Ga., A. B. & C., Seaboard

(At By-Products Coke Ovens, Birmingham, Ala.)
Supt.—Fred Osborne
M. M.—J. O. Casper

(At Gadsden, Ala., Furnace)
Vice Pres. and Gen. Supt.—J. P. Dovel
Supt. Blast Furnace—F. H. Hurd

(At Sheffield, Ala., Furnace)
Supt. Blast Furnace—F. H. Hurd
M. M.—W. W. Hayes

SMITH STEEL CASTING CO., GEO. H., 500 Clinton St., Milwaukee, Wis.
Pres.—E. P. Smith
Vice Pres.—Charles Pfeiffer
Treas. and Sec.—F. E. Hinners
Chemist and Met.—Martin Rock
EQUIPMENT—Electric furnace
PRODUCT—Steel castings
Capacity—7,500 tons annually

SOUTH CHESTER TUBE CO., Chester, Pa.
Pres.—George H. Earle, Jr.
Vice Pres. and G. M.—G. W. Cook
Treas. Sec. and Pur. Agt.—A. J. Tucker
Asst. Gen. Mgr.—F. J. Tucker
PRODUCTS—Casing, tubing, line pipe, drive pipe, rotary drill pipe, standard, gas, steam and water pipe, ammonia pipe

SOUTHERN CALIFORNIA IRON & STEEL CO., P. O. Box 602, Huntington Park, Cal. Plant: Vernon, Cal.
Pres.—E. M. Wilson
Vice Pres.—E. S. Houdlette
Treas.—S. A Rindge
Sec.—W. P. Kelly
Pur. Agt.—Arthur Swenerton

(At Plant: Randolph St. and Union Pac. Tracks, Vernon, Cal.)
Gen. Sup.—W. P. Mullane
Supt. O. H.—Alex Reid
Chief Engr.—A. W. Clausen
Chief Elec. and Safety Engr.—Erle Bletcher
M. M.—James Cross
Chief Chemist—E. H. Miller
Roll Designer—Thomas Davis
Foreman Mach.—James Green
Storekeeper—Ben Fahnestock
EQUIPMENT—Three open hearth furnaces, forge dept., 2 rolling mills, bolt and nut factory
PRODUCTS — Open hearth forgings, blooms, billets, bar steel, bolts, nuts, rivets
Capacity—50,000 tons per year
Capital—$1,500,000; issued, $1,345,400; bonds issued, $765,000
Railroads—W. P., P. E.

SOUTHERN FERRO ALLOYS CO., Chestnut at 21st St., Chattanooga, Tenn.
Pres. and Treas.—Paul J. Kruesi
Vice Pres. and Mgr.—George L. Davison
Gen. Supt.—Arthur L. Raymo
Elec. Engr.—H. H. Rusbridge
Chemist—Raynold L. Patterson
EQUIPMENT—3 electric furnaces, 8,000 hp.
PRODUCTS—Ferro silicon, all grades silvery pig iron, Bessemer ferro silicon

SOUTHERN MANGANESE CORP., Anniston, Ala.
Pres.—Theo. Swan
Vice Pres.—B. G. Klugh
Treas. and Sec.—C. M. Jesperson
Asst. Treas. and Asst. Sec.—E. T. Hall
Pur. Agt.—C. B. Wells
Asst. Sales Mgr.—R. S. Weatherly
Works Mgr.—R. R. Cole
Gen. Supt.—W. R. Seyfried
Supt. Furnaces—L. K. Cowie
Supt. Acid Prod.—G. H. Howland
Supt. Carbide Opr.—F. N. Williams

Chief Engr.—E. L. Sayers
Chief Elec. Engr.—F. V. Andreae
Mech. Engr.—E. H. Buford
M. M.—H. L. Kirby
Chief Technologist—J. N. Carothers
Chief Draftsman—P. E. Beard
Safety Engr.—W. W. Stephens
Storekeeper—W. F. Mellon
Supt. Labor—J. V. Amerson
Railroad—L. & N.

SOUTHERN MANGANESE STEEL CO., 6600 Ridge Ave., St. Louis, Mo.
Pres.—W. G. Nichols
Vice Pres. and Treas.—S. T. McCall
Sec.—H. F. Rickhoff
Works Mgr.—W. J. Hall
P. A.—C. H. McGrath
Chief Engr.—W. M. Pryor
Storekeeper—W. E. Selig
EQUIPMENT—Two 1½-ton electric melting furnaces; one 500-lb. electric melting furnace
PRODUCT—Manganese steel, carbon steel and heat resistant alloy castings
Capacity—5,000 tons annually

SOUTHERN METALLURGICAL CO., INC., Box 69, Cave Spring, Ga.
Pres. and Chief Engr.—Y. A. Dyer
Vice Pres.—J. C. Callaway, at Birmingham, Ala.
Vice Pres. and Gen. Mgr.—C. H. Gilmour
Treas. and Sec.—J. W. Britain, Birmingham, Ala.
Gen. Supt.—V. F. Crumbley
PRODUCTS—High tensile iron castings
Capacity—3,000 to 5,000 tons
Capital—$40,000
Railroad—Southern

SOUTHERN PACIFIC CO., 65 Market St., San Francisco, Cal. Plant: Sacramento, Cal.
Chairman—H. W. DeForrest, 165 Broadway, New York City
Pres.—Wm. Sproule
Vice Pres.—Paul Shoup
Treas.—G. M. Thornton, 165 Broadway, New York City
Asst. Treas.—C. M. Scott
Sec.—Hugh Neill, 165 Broadway, New York City
Asst. Sec.—G. L. King
Pur. Agt.—F. W. Taylor
Gen. Mgr.—J. H. Dyer
Asst. Gen. Mgr.—F. L. Burckhalter
Gen. Supt. Motive Power—George McCormick

(At Sacramento, Cal., Plant)
Supt. Motive Power—A. D. Williams
Supt. of Shops—H. C. Venter
Machine Shop Supt.—W. J. Taylor
Met.—Wynne L. Jackson
Chemist—Geo. L. Baxter
Draftsman—F. B. Gillett
Storekeeper—E. H. Polk
EQUIPMENT—6-ton electric furnace
PRODUCTS—Steel castings and ingots for own use
Capacity—1,500 gross tons castings annually; 700 gross tons ingots annually

SOUTHERN STEEL & ROLLING MILL, INC., 3900 Tenth Ave., North, Birmingham, Ala.
Pres.—J. E. Gerson
Treas., Sec. and Gen. Mgr.—D. B. Lesser
Supt. and Roll Designer—W. L. Fyock
Supt. Finishing Mill—Cecil Lewis
Draftsman—A. W. Thompson
PRODUCTS—Deformed reinforcing bars, channels and light angles
Capacity—$200,000
Railroads—Southern, L. & N.

SOUTHEASTERN IRON CORP., Goshen, Va.
Pres.—E. P. Seip
Vice Pres.—F. H. Hardy
Vice Pres.—C. D. Tripp
Vice Pres.—H. A. Brassert
Sec.—A. B. Markus
Treas.—T. F. Miller
Gen. Supt.—J. H. B. Burke
PRODUCTS—Foundry pig iron, spiegeleisen and ferro-manganese
Capacity—72,000 tons pig iron; 30,000 tons ferro alloys

SPANG CHALFANT & CO., Etna, Pa.
Gen. Supt.—W. J. Hampton
Chief and Steam Engr.—Wm. H. Ritts
Mech. Engr.—R. G. Connell
Elec. Engr.—J. S. O'Donovan
Safety Engr.—John Herman
PRODUCT—Welded tubular products

STANDARD BRAKE SHOE & FOUNDRY CO., P. O. Box 652., Pine Bluff, Ark.
Pres. and G. M.—F. L. Dilley
Asst. to Pres.—C. K. Elliott
Vice Pres. and Pur. Agt.—E. S. Dilley
Vice Pres.—W. J. Roehl
Treas.—S. F. Dilley
Sec.—W. D. Lee
Gen. Supt.—W. M. Carty
Chemist—Ernest Lancashire
Foreman Steel Fdry.—W. James Weatherford
Foreman Iron Fdry.—Rand Willis
EQUIPMENT—Iron and steel foundries
PRODUCTS—Steel back brake shoes, steel iron castings, alloyed steel
Capacity—1,000 tons per month
Capital—$500,000; issued $360,000; bonds issued, $50,000
Railroads—Siding, Mo. Pac., St. L., S. W.

STANDARD BRANDS TOOL STEEL CO., Indianapolis, Ind.
Pres.—Samuel Falender
Treas., Sec. and G. M.—Louis R. Sereinsky
PRODUCTS—High speed steel
Capital—$50,000

STANDARD CRUCIBLE STEEL CASTING CO., 717-733 30th St., Milwaukee, Wis.
Pres., Sec., Gen. Mgr. and P. A.—George F. Birkel
Treas.—Henry M. Koosch
Sec., Gen. Mgr. and Pur. Agt.—George F. Birkel
Gen. Supt.—Herman Zunker

EQUIPMENT—5-ton O. H. furnace
PRODUCT—Open hearth steel castings
Capacity—5,500 tons annually
Capital—$50,000
Railroads—C. M. & St P., North Ave. Station, Soo Ry.

STANDARD HORSE SHOE CO., 131 State St., Boston, Mass. Plant: South Wareham, Mass.
Pres.—Roland H. Boutwell
Vice Pres.—Roland H. Boutwell II
Treas.—R. M. Boutwell
Sec.—G. S. Boutwell
Gen. Mgr.—R. M. Boutwell, Jr.
Asst. Gen. Supt.—J. E. Conroy
PRODUCT—Iron horse and mule shoes
Capital—$100,000
Railroad—N. Y., N. H. & H.

STANDARD SEAMLESS TUBE CO., 313 Sixth Ave., Pittsburgh, Pa. Plant: Ambridge, Pa.
Pres.—H. C. Fownes
Vice Pres.—W. C. Fownes
Sec.—T. H. McGraw, Jr.
Treas.—Wm. C. Fownes, Jr.

(At Ambridge, Pa., Plant)

Pur. Agt.—W. E. Motheral
Gen. Supt.—C. R. Barton
Supt. Blooming Mills—W. N. Rendleman
Supt. Finishing Mills—C. G. Dent
Chief Engr.—J. B. Wharton
M. M.—A. D. Adams
Elec. Engr.—O. H. Meineke
Met.—E. B. Simpson
Safety Insp.—C. L. Jamison
Draftsman—W. D. Shields
Storekeeper—R. B. Hays
PRODUCT—Seamless steel tubes

STANDARD STEEL SPECIALTY CO., Beaver Falls, Pa.
Pres. and Treas.—E. J. Wagner
Vice Pres.—Alex. Gilliland
Sec.—J. B. Jamison
Gen. Supt.—Alex Espy
Asst. Gen. Supt.—Dan Bingle
PRODUCTS—Machine and Woodruff keys, machine racks, taper pins
Capital—$200,000
Railroads—Penna., P. & L. E.

STANDARD STEEL WORKS CO., 500 No. Broad St., Philadelphia, Pa. Plant: Burnham, Pa.
Pres.—Samuel M. Vauclain
Vice Pres., Charge of Plant and Mfg.—John P. Sykes
Vice Pres., charge Finance and Treas.—William de Krafft
Vice Pres., charge Manufacture—A. A. Stevenson
Vice Pres., charge Sales—Frank K. Metzger
Vice Pres., charge Purchases—William A. Russell
Vice Pres., concerning Engineering and Metallurgy—Henry V. Wille
Sec.—Arthur L. Church
Comptroller—Alvin B. Ehst

(At Burnham, Pa., Plant)

Works Mgr.—O. C. Skinner
Supt.—G. Howard Lewis
Asst. Supt.—E. W. Thomas
Supt. O. H.—J. E. Shaffer
Asst. Supt.—O. H.—I. A. Billiar
Foreman Rolling Mill—M. C. Snook
Foreman Rolling Mill—E. P. Herbster
Gen. M. M.—A. G. Cole
Elec. Engr.—A. W. Alexander
Asst. Pur. Agt.—O. C. Lytel
Met. Engr.—L. H. Fry
Asst. Metl. Engr.—J. D. Tyson
Engr. Tests—H. R. Hackenberry
Mech. Engr.—W. H. Foster
Safety Insp.—F. J. Graham
Foreman Labor—H. E. Harshbarger
PRODUCTS—Steel castings for locomotives, steel tires, steel tired wheels, rolled steel wheels, forgings, railway car springs, malleable castings

STANDARD TINPLATE CO., Canonsburg, Pa.
Pres.—T. C. Cranwell, New York City
Vice Pres.—C. S. Conway, New York City
Treas.—J. B. Jefferies, New York City
Treas. and Sec.—W. J. Reese
Mgr. of Works—Arthur O'Brien
Supt. of Finishing Mill—James Warne
Supt. Tin House—Stanley C. Wise
Supt. Hot Mills—Chas. Murray
Supt.—John S. Cook
Supt. Masonry—Wm. M. Jones
Supt. Elec. Dept.—Walters McClelland
Hot Mill and R. M. Supt.—Oliver Evans
Chief Engr.—Harry Black
M. M.—A. J. Maskrey
Asst. M. M.—M. L. Christy
Mech. Engr.—Dale A. Bedillion
Safety Engr.—Scott Morris
Supt. Annealing—James Warne
Elec. Engr.—A. F. Gallagher
Chief Draftsman—J. M. Hoover
Works Engr. and Safety Insp.—D. B. Geeseman
Foreman Machinist—H. N. Armstrong
PRODUCT—Tin, terne and black plate

STANFORD STEEL CORP., Milford, Conn.
Pres., Treas. and G. M.—George I. Stanford
Vice Pres.—Amos F. Barnes
Asst. Treas., Sec. and Pur. Agt.—A. M. Kelly
EQUIPMENT—Five rolling mills
PRODUCTS—Cold rolled strip steel
Capacity—5,000 tons annually
Capital—$226,000; issued, $86,000

STANLEY WORKS, THE, New Britain, Conn. General office: 195 Lake St. Plants: Hot rolling mills, Bridgeport, Conn.; cold rolling mills, New Britain, Conn. Have taken oven American Tube & Stamping Co., Bridgeport, Conn.
Chairman—E. A. Moore
Pres.—C. F. Bennett
Vice Pres. Opr. Steel Plant—Malcolm Farmer
Vice Pres., Sec.—E. W. Christ

Vice Pres.—J. E. Cooper
Vice Pres.—W. H. Hart
Vice Pres.—P. B. Stanley
Vice Pres. Sales—J. E. Stone
Treas.—L. W. Young
Asst. Treas.—J. B. Wilbur, Jr., and R. E. Pritchard
Asst. Sec.—P. F. King
Asst. Sec. and Asst. Pur. Agt.—M. H. Pease

(At New Britain, Conn., Steel Plant, Lake St.)

Gen. Supt.—J. F. Conners
Supt.—Russell Germond
Supt. O. H.—C. B. Collingwood
Supt. Roll Mill—W. H. Hanna
Chief Engr. and Roll Designer—D. A. Keating
Chief Elec. Engr.—C. S. Hart
M. M.—Cedric Power
Power Plant Engr.—J. H. Fellows
Met.—J. E. Malloy
Chemist—B. M. Crum
Safety Insp.—O. G. Curtis
Foreman Mach.—Alex. Larson
EQUIPMENT—Three open hearth furnaces, 3 hot strip mills, and 33-inch blooming mill
PRODUCTS—Hot and cold rolled strip steel, billets, slabs
Capacity—100,000 tons
Railroads—Rail and water

(At Bridgeport, Conn., Amer. Tube & Stpg. Plant)

Gen. Supt.—J. F. Conners
Supt. O. H.—C. B. Collingwood
Supt. Blooming Mills—B. Kelly
Supt. Finishing Mills—W. H. Hanna
Chief Engr.—D. A. Keating
Asst. Chief Engr.—D. A. Hoffman
Elec. Engr.—G. A. Munson
Met.—R. Baldwin
Draftsman—H. Westerberg
EQUIPMENT—One 75-ton and two 50-ton open hearths, 34-inch bloomers, 16-inch, 12-foot, 14-inch strip mill
PRODUCTS—Billets, slabs, hot and cold rolled strip steel
Capacity—110,000 tons
Railroads—N. Y., N. H. & H.

STANWOOD CORP., THE, 3rd and Philadelphia Sts., Covington, Ky.
Pres., Treas. and Gen. Mgr.—L. B. Wilson
Asst. Treas. and Pur. Agt.—E. M. Feeney
Sec.—Miles Townsend
Sales Mgr.—H. A. Pillen
Supt.—Wm. Baker
Chief Draftsman—Herbert Jackson
PRODUCTS—Steam engines, etc.
Capital—$150,000
Railroads—L. & N. siding

STAR FURNACE CO., Jackson, O.
(Furnace Idle)
Pres.—Louis I. Brown
Treas., Sec. and Pur. Agt.—H. E. Davis
PRODUCTS—Silvery and Besso ferro silicon
Capacity—35,000 tons annually
Capital—$160,000

STEARNS ROGER MFG. CO., 1718 California St., Denver, Colo.
Pres.—T. B .Stearns
Vice Pres. and Gen. Mgr.—R. W. Gordon
Vice Pres. and Sales Mgr.—C. L. Dean
Sec. and Asst. Treas.—H. C. Morey
Supt.—A. George Lindberg
Chief Engr.—D. J. Nevill
Draftsman—F. A. Lockwood
PRODUCTS—Heavy machinery, mining and Oil well
Railroads—Colo. & Southern

STEEL & TUBES, INC. (of New York). Successors to The Mohegan Tube Co., Scott Ave. and Meserole St., Brooklyn, N. Y.
Pres.—Julius L. Sussman
Vice Pres.—Myron A. Wick
Treas.—Lyman Bartlett
Sec.—George F. White
Gen. Supt.—J. F. Lawson
Machine Shop Supt.—Gus Lundgren
Chief Engr.—M. H. Sussman
M. M.—David Barashick

STERLING STEEL FOUNDRY CO., Braddock, Pa.
Pres.—George W. Smith
Vice Pres.—W. M. Nease
Treas.—H. G. Smith
Sec. and Asst. Treas.—M. A. Quinn
Pur. Agt. and Safety Engr.—D. B. Webb
Gen. Supt.—G. W. Smith
Chief Engr.—Geo. Harbison
Sales Mgr.—J. B. Eccleston
Chemist and Met.—A. J. Kenney
PRODUCT—Steel castings

STEWART FURNACE CO., THE, 1854 Union Trust Bldg., Cleveland, O. Blast Furnace at Sharon, Pa.
Pres.—Fayette Brown
Vice Pres.—Harvey H. Brown, Jr.
Sec. and Treas.—George W. Nichols
Gen. Mgr.—Samuel M. Phillips

(At Sharon, Pa., Furnace)

Pur. Agt.—J. S. Bycroft
Gen. Mgr.—S. M. Phillips
Gen. Supt.—W. W. Arbuckle
Chief Engr.—F. L. Jennings
M. M.—J. M. Sherwig
Chief Chemist—H. A. Dill
Cashier—W. D. McCormic
EQUIPMENT—One blast furnace
PRODUCTS—Pig iron

STROH STEEL HARDENING PROCESS CO., 32nd and A. V. R. R., Pittsburgh, Pa.
Pres.—Wm. Y. Stroh
Treas.—S. M. Rose
Sec.—C. W. Hays
Pur. Agt.—J. L. Fuchs
Supt.—C. B. Leiendecker
Elec. Engr.—Jos. Homer
Foreman—H. J. Wesling
Chief Clerk and Storekeeper—C. J. Lightner
PRODUCTS—Hardened steel castings

STRONG STEEL FOUNDRY CO., 33 Norris St., Buffalo, N. Y.
Pres., Treas.—O. H. B. Champlin
Vice Pres. and Gen. Mgr.—C. P. Champlin
Sec. and Pur. Agt.—O. H. P. Champlin, Jr.
Plant Mgr.—D. V. Sherlock
PRODUCTS—Acid open hearth steel castings
Capacity—7,200 tons annually

STROUDSBURG ENGINE WORKS, INC., THE, 62-74 N. Third St., Stroudsburg Pa.
Pres. Gen. and Sales Mgr.—T. O. Werner
Vice Pres.—C. Shull
Sec. and Treas.—S. E. Shull
Pur. Agt., Asst. Gen. Mgr. and Chief Engr.—E. E. Johnson
Foreman Machinist—James Groner
PRODUCTS—Hoisting machinery
Capacity—2 engines per week
Capital—$78,000, all issued, Bonds $20,000
Railroads—N. Y. S. & W.

STRUTHERS FURNACE CO., THE, 609 City Bank Bldg., Youngstown, O. Furnace: Struthers, O.
Receiver—H. W. Grant
Pres.—W. C. Runyan
Treas. and Sec.—A. Grossman
Asst. Sec. and Asst. Treas.—R. H. Domer
Pur. Agt.—A. B. Stough

(At Furnace: Bridge St., Struthers, O.)
Supt. B. F.—J. C. Richards
M. M.—Charles McQuillan
Chief Clerk—A. B. Stough
PRODUCTS—Basic foundry and malleable pig iron
EQUIPMENT—One blast furnace
Capacity—180,000 tons annually
Capital—$2,250,000; issued, $1,909,500; bonds issued, $1,500,000
Railroads—P. & L. E., Penna.

SUMMERILL TUBING CO., Bridgeport, Montgomery County, Pa.
Pres.—S. L. Gabel
Treas. and Sec.—E. V. Gabel
Gen. Mgr.—N. H. Wolf
PRODUCTS—Seamless tubing in steel, brass, copper, aluminum and nickel silvers, stainless steel
Capital—$250,000
Railroad—Reading

SUPERIOR SHEET STEEL CO., THE, (Subsidiary of Continental Steel Corp.) P. O. Box 466, Canton, O.
Chairman—W. W. Irwin
Pres.—H. A. Roemer
Vice Pres. and Gen. Mgr.—D. A. Williams
Vice Pres. Sales—H. A. Taubensee
Treas. Sec.—U. K. Becker
Asst. Treas.—B. B. McCandliss

(At Louisville Road, Canton, O.)
Gen. Supt.—H. W. Theiss
Asst. Gen. Supt.—J. P. Nelson
Supt. Sheet Mill—D. W. Frease
Supt. Galvanizing Dept.—J. H. Hill
Chief Engr.—Thomas Heacock
Elec. Engr.—Geo. R. Roemer
Asst. Chief Elec.—B. O. Stoddard
EQUIPMENT—Nine stands hot mills, 5 galvanizing pots, 1 terne pot
PRODUCTS—O. P. C. R. & A. black, galvanized and terne sheets
Capacity—60,000 net tons per year
Capital—$4,600,000; issued, $1,893,400
Railroads—Penna., W. & L. E., B. & O.

SUPERIOR STEEL CORP., 520 Union Trust Bldg., Pittsburgh, Pa. Plant: Carnegie, Pa.
Chairman—James H. Hammond
Pres.—Frank R. Frost
Vice Pres.—J. Sidney Hammond
Treas. and Sec.—C. D. Claney
Asst. Treas. and Asst. Sec.—D. M. Liddell
Pur. Agt.—A. D. Feeman
Comptroller—Charles A. Lambie

(At Carnegie, Pa., Plant)
Gen. Supt.—Wm. A. Smith
Asst. Gen. Supt.—Wm. B. Holt
Supt. Hot Rolling Dept.—J. C. Bean
Supt. C. R. Dept.—H. C. Poppelreiter
Asst. Supt.—Robt. Stewart
Chief Elec. Engr.—James Maloney
Master Mechanic—F. T. Neale
Chemist—T. J. Lutz
PRODUCTS—Hot and cold rolled strip steel
Capacity—180,000 net tons

SUPERIOR STEEL & MALLEABLE CASTING CO., Benton Harbor, Mich.
Pres.—S. E. Doster
Vice Pres. and Gen. Mgr.—W. R. Gilmore
Treas.—F. H. Johnston
Sec.—C. A. Pratt
Pur. Agt.—M. F. Stilling
Supt. O. H.—A. F. Haines
Supt. Steel Fdry.—E. A. Osborne
Supt. Malleable Fdry.—R. J. Shilling
M. M.—J. Withers
Chemist—Charles C. Kawin
EQUIPMENT—Two 15-ton acid open hearth and one 15-ton air furnace
PRODUCTS—Steel and malleable iron castings
Capacity—7,500 net tons steel castings; 4,500 net tons malleable iron castings annually

SUPERIOR STEEL PRODUCTS CO., Monaca, Pa.
Pres. and Gen. Mgr.—M. P. Simpson
Treas.—Homer H. Swaney
Sec.—F. H. Guppy
Gen Supt.—G. W. Hiddleson
PRODUCTS—Cold drawn steel
Capacity—750 tons per month
Capital—$100,000
Railroad—N. Y. C.

SUTTON ENGINEERING CO., 1309 Park Bldg., Pittsburgh, Pa. Plant Bellefonte, Pa.

Pres. and Gen. Mgr.—J. Blair Sutton
Treas. and Sec.—Geo. A. Wise
Sales Mgr.—LeRoy B. Mitchell

(At Bellefonte, Pa.)
Gen. Supt.—M. C. Hansen
Chief Engr.—E. T. Risan
EQUIPMENT—Rolling mill and straightening equipment
PRODUCTS—Straightening and rolling mill machinery
Capital—$250,000
Railroad—Penna.

SWEDISH CRUCIBLE CO., Butler and Grand Trunk R. R., Detroit, Mich.
Pres., Treas. and G. M.—Nels L. Olsen
Vice Pres. and Sec.—A. J. W. Dixon
Chief Engr.—J. V. Bretaud
PRODUCT—Steel castings up to 5 tons
Capacity—3,000 tons converter, 600 tons crucible steel castings

SWEET'S STEEL CO., Williamsport, Pa.
Chairman—Joseph Kaye
Pres. and Gen. Mgr.—Daniel F. Swartz
Vice Pres.—Wm. P. Beeber
Treas. and P. A.—John E. Spotts
Sec.—Clarence L. Peaslee
Mgr. Sales—Charles C. Steel
Sales Mgr.—Carl G. Browne
Gen. Supt.—John A. Schultz
Chief Elec. Engr. and M. M.—Benjamin Wolfe
Roll Designer—H. A. Heenan
EQUIPMENT—One 16-inch, one 14-inch, and one 9-inch mill
PRODUCTS—Light "T" rails and accessories, including splice bars, angle bars, bolts and nuts, spikes, steel ties, clips and "T" head bolts, bedstead angles, squares, rounds and shapes, portable track, frogs and switches; fence posts
Capital—$450,000; bonds issued $362,500
Railroads—Reading, N. Y. C., Penna., Susq. & N. Y.

T

TAMPA STEEL PRODUCTS CO., 110½ Franklin St., Tampa, Fla. Plant: Industrial City, suburb of Tampa
Pres. and Gen. Mgr.—J. R. Finkelstein
Vice Pres.—David Giles
Mgr.—William M. Lewis
EQUIPMENT—One 10-inch bar mill

TAYLOR & BOGGIS FOUNDRY CO., 1290 E. 53rd St., Cleveland, O.
Pres.—I. T. Kahn
Vice Pres. and Sec.—J. Lehman
Vice Pres. and Treas.—K. Davidson

(At Plant, 3027 E. 55th St., Cleveland, O.)
Gen. Supt.—J. Luton
Asst. Gen. Supt.—J. Hanks
PRODUCTS—Gray iron castings
Capacity—1,500 tons per month

TAYLOR CO., INC., N. & G., Broad and Arch Sts., Philadelphia, Pa. Plant at Cumberland, Md.
Pres.—Hollinshead N. Taylor
Vice Pres.—Owen J. Geraghty
Vice Pres.—William N. Deere
Treas. and Sec.—George N. Crispin
Asst. Treas., Asst. Sec.—John M. Read

(At Cumberland, Md., Plant)
PRODUCTS—Tin and terne plates
Capacity—750,000 base boxes per annum

TAYLOR CO., W. P., 218 Ellicot Square, Buffalo, N. Y. Plant: 575 Howard St., Buffalo
Pres.—W. P. Taylor
Vice Pres.—C. D. Taylor
Treas. and Sec.—P. P. J. Weigel
Asst. Supt.—W. J. Gibney
Gen. Mgr.—James W. Gibney
Chief Engr., Safety Engr. and Foreman Mach.—Leonard Batt
Asst. Chief Engr.—C. Pulver
Chief Elec.—William Sherk
Met.—James L. Gibney
Chief Draftsman—W. Gibney
Foremen—M. Connelly, James McNeil and Frank Meyers
EQUIPMENT—Two electric furnaces and 3 cupolas
PRODUCTS—Electric steel and gray iron castings
Capacity—70 tons per day iron, and 20 tons per day steel

TAYLOR-WHARTON IRON & STEEL CO., High Bridge, N. J. Subsidiary companies: William Wharton, Jr. & Co., Inc., Easton, Pa.; Philadelphia Roll & Machine Co., and Tioga Steel & Iron Co., Philadelphia, Pa.
Pres.—Percival Chrystie
Asst. to Pres.—Geo. R. Hanks
Treas. and Sec.—W. A. Ingram
Asst. Treas. and Asst. Sec.—L. N. Aller
Pur. Agt.—L. F. Burkley

(At High Bridge, N. J., Plant)
Plant Engr.—E. E. Alexander
Gen. Supt. and Chief Engr.—A. R. Bench
Fdry. Supt.—Stanley Apgar
Mech. Engr.—W. H. Stires
Met.—John H. Hall
Safety Insp.—W. J. Robinson
EQUIPMENT—Two 3-ton Bessemer furnaces, one 3-ton electric furnace
PRODUCT—Manganese steel castings
Capacity—18,000 tons annually

TAYLOR-WILSON MFG. CO., Duffs Station, McKees Rocks, Pa.
Chairman—J. R. Bradley
Pres. and Gen. Mgr.—G. V. Sborigi
Vice Pres.—E. H. Wilson
Treas.—W. F. Taylor
Sec.—H. M. Wilson
Chief Engr.—R. W. Schuette
Chief Draftsman—J. F. Stadelman

TEMPLE FURNACE CO., Reading, Pa. Furnace: Temple, Burks County, Pa.
Receiver—Paul Brooks
Pres.—E. Stotesbury
Treas.-Sec.—H. M. Muhlenberg

(At Temple, Pa., Furnace)
Supt.—S. G. Valentine
(Out of Blast two years)

TEMPLE MALLEABLE IRON & STEEL CO., Temple, Pa.
Pres.—Edwin C. Donaghy
Treas., Gen. Mgr. and Pur. Agt.—Herbert R. Culp
Sec.—L. Cuesta Donaghy
Gen. Supt.—L. A. Dunn
Machine Shop Supt.—C. R. Langner
EQUIPMENT—Two 15-ton air furnaces
PRODUCTS—Malleable iron and cementation steel castings
Capacity—6,000 tons
Railroads—Penna. and Reading

TENNANT STEEL CASTING CO., 1163 Minneapolis St., Seattle, Wash.
PRODUCTS—Steel castings

TENNESSEE COAL, IRON & R. R. CO., Brown-Marx Bldg., Birmingham, Ala. Plants: Bessemer, Birmingham, Ensley and Fairfield, Ala.
Pres.—George Gordon Crawford
Vice Pres.—H. C. Ryding
Vice Pres. Sales—Willard Wilson
Asst. to Vice Pres. Opr.—William G. Mathias
Asst. to Vice Pres. Const.—R. R. Baxter
Treas.-Sec.—L. T. Beecher
Auditor—F. B. Winslow
Pur. Agt.—LeRoy Holt
Asst. Treas. and Asst. Sec.—C. R. Sexton
Chief Engr.—J. E Fries

(At Bessemer, Ala., Furnace)
Supt. Fdry. Furnaces—E. K. Miller
Chief Engr.—A. B. Haswell
PRODUCTS—Basic and foundry pig iron

(Bessemer Rolling Mills)
Supt. R. M.—G. A. Miller, Fairfield, Ala.
Supt. Bessemer R. M.—W. J. Smith
Asst. Supt.—J. P. Orum
M. M.—E. B. Mays
Insp. Engr.—Oscar U. Cook
Div. Elec.—O. B. Allgood
Clerk to Supt.—O. B. Anthony
Supt. Fdry. Furnaces—E. K. Miller
Types and No. of Mills—One 84-inch plate mill, one 8-inch Belgian train, one 16-inch mill
PRODUCTS—Bars, plates, light rails

(At Birmingham, Ala.)
Supt. Car Building Plant—R. R. Baxter

(At Ensley, Ala., Works)
Gen. Supt.—Karl L. Landgrebe
Asst. Gen. Supt.—Anson W. Allen
Supt. B. F.—R. H. Ledbetter
Asst. Supt. B. F.—J. A. Doyle
Supt. B. F. (Night)—E. S. Hurlburt
Supt. O. H.—R. L. Bowron
Asst. Supt. O. H.—G. W. Pratt
Supt. O. H. (Night)—E. C. Kain
Supt. Roll Mill—Joseph Scholl
Supt. Roll Mill (Night)—J. A. Fink
Asst. Supt. Roll Mills—M. R. Johnson
M. M. B. F.—Frank Briner
M. M. B. F.—R. J. Williams
M. M. O. H.—C. A. Birk
M. M. Mills—J. L. Jones
Supt. Shops—A. R. Clark
Asst. Supt. Shops—A. V. Jannette
Supt. Iron Fdry.—G. A. Preston
Supt. Yard Dept.—John Hurley
Chief Engr.—A. B. Haswell
Asst. Chief Engr.—R. D. Osgood
Chief Elec.—W. C. Suppler
Asst. Chief Elec.—J. E. Sayer
Steam Engr.—F. G. Cutler
Asst. Steam Engr.—W. P. Caine
Met. and Chief Chemist—Dr. J. R. Harris
Chief Draftsman—J. M. Dil
Chief Insp.—E. J. Donnelly
Safety Insp.—O. B. Phillips
Roll Designer—W. R. Scholl
Foreman Mach.—G. A. Bishop
Storekeeper—R. F. Allen

(At Fairfield, Ala.. Fairfield Works)
Gen. Supt.—George H. Millar
Supt. O. H.—L. C. Henkel
Chief Elec.—J. E. Harrell
M. M.—Carl Crews
Elec. Foreman—Ernest V. Sanders

TENNESSEE PRODUCTS CORP., 11th floor, American Trust Bldg., Nashville, Tenn. Formerly Bon Air Coal & Iron Corp. Blast furnaces: Rockdale and Lyles-Wrigley, Tenn. Coal Mines: Ravenscroft, Tenn. Chemical plant: Lyles-Wrigley, Tenn. Coke and gas plant: Chattanooga, Tenn.
Chairman—William Wrigley, Jr.
Vice Pres. and Chairman Ex. Com.—William J. Cummins
Vice Pres. and Sec.—Frederick Leake
Asst. to Pres.—Preston Lunsford
Treas.—John McE. Bowman
Asst. Treas.—Alvin Foster
Asst. Sec.—George W. Donegan
Pur. Agt.—John D. Cummins

(Coal Mines, Ravenscroft, Tenn.)
Gen. Supt.—Dr. W. B. Young
Asst. Supt.—W. W. Gilbreath
Elec. Engr. and M. M.—E. H. Gilbreath
Storekeeper—R. B. Simpson

(Blast Furnaces, Rockdale and Lyles-Wrigley, Tenn.)
Supt. (Rockdale)—John W. Walton
Asst. Supt. (Rockdale)—W. P. Brewer
Supt. (Lyles-Wrigley)—James M. Howard
Asst. Supt. (Lyles-Wrigley)—Grady Street

(Chemical Plant, Lyles-Wrigley, Tenn.)
Supt.—N. E. Van Ness
M. M. and Elec. Engr.—D. G. Crighton
Chief Chemist—J. C. Carlin
Storekeeper—Lee Walker

(Coke and Gas Plant, Chattanooga, Tenn.)
Supt.—J. C. Barnhart
Mgr.—J. H. Jones

TENNESSEE VALLEY IRON & R. R. CO., Collinwood, Tenn. Anna Furnace

Vice Pres. and G. M.—Thomas S. Baillee
Pur. Agt.—B. F. Wilkinson
Gen. Supt.—R. S. Burrett

TERRE HAUTE MALLEABLE & MFG. CO., Terre Haute, Ind.
Pres.—L. M. Eyke
Vice Pres.—J. G. Garrard
Treas.—H. L. Arnold
Asst. Sec. and Asst. Treas.—G. McMurtrie
Sec.—A. L. Pfau
Pur. Agt.—F. R. Simmons
Met.—L. M. Wise
PRODUCTS—Malleable iron castings
Capacity—12,000 tons
Capital—$550,000 preferred, 27,500 shares no par common
Railroads—Penna., Big Four, C. E. I., C. M. & St. P.

TEXAS STEEL CO., 4101 Hemphill St., Ft. Worth, Tex.
Pres.—John H. Kirby
Asst. to Pres., Treas. and G. M.—J. K. Remsen
Vice Pres. and Gen. Supt.—Geo. W. Armstrong, Jr.
Sec. and P. A.—J. L. Wallace
Supt. Rolling Mill—Arch Lawrence
Supt. Steel Fdry.—Ed. Smith
Supt. Elec. Steel—A. Ross
M. M.—C. H. Baldwin
Chemist—D. F. Morgan
Foreman Machinist—Allen Jones
Chief Draftsman—David Hampton
EQUIPMENT—Electric furnaces, 18-inch bar mill, 18-inch, 10-inch merchant mill; 10-inch, 8-inch merchant mill
PRODUCTS—Steel castings, rolled products, oil field supplies
Capacity—1,800 tons per month

THOMAS ELECTRIC STEEL CORP., Huntington, Ind.
Pres. and Gen. Mgr.—D. D. Thomas
Vice Pres., Pur. Agt. and Asst. Gen. Mgr.—O. G. Craig
Treas.—R. J. McGreevy, Jr.
Sec. and Asst. Treas.—S. T. Scott

THOMAS FURNACE CO., Milwaukee, Wis.
Pres. and G. M.—John M. Thomas
Vice Pres.—W. Aubrey Thomas
Treas. and Sec.—Richard M. Jones
EQUIPMENT—One furnace
PRODUCTS—Low phosphorus, basic foundry and malleable
Capacity—130,000 tons annually
Railroad—C. M. & St. P.

THOMAS IRON CO., THE, Baer Bldg., Reading, Pa. Furnace: Hokendauqua, Pa. Richard Mine at Wharton, N. J.
Pres.—L. E. Thomas
Vice Pres.—J. M. Callen
Pur. Agt.—G. F. D. Hallman
Gen. Sales Agt.—Elbridge Walker
Gen. Supt.—J. Norman Sherer

(At Hokendauqua, Pa.)

Treas. and Sec.—Oliver T. Case
Supt. Blast Furnace—A. A. Osborn
Supt. Mine—W. B. Searing, at Wharton, N. J.
M. M.—Hugh N. Porter
Met.—Paul Borowski
Foreman Machinist—Charles Theiss
Chemist—Walter Wyckoff
Storekeeper—J. E. Freund
EQUIPMENT—Two blast furnaces
PRODUCTS—Foundry, forge, malleable and basic pig iron
Capacity—175,000 tons pig iron
Capital—$1,000,000
Railroads—Lehigh Valley, C. R. R. of N. J., and Reading, at furnaces; Mt. Hope Mineral, C. R. R. of N. J. and D. L. & W., at mine

THOMAS SHEET STEEL CO., THE, Summit Ave., Niles, O.
Chairman—C. S. Thomas
Pres.—M. C. Summers
Vice Pres. Sales—Severn P. Ker, Jr.
Treas.—C. R. Thomas
Sec. and Pur. Agt.—Frank Howell
Gen. Supt.—Dennis E. Benbow
Elec. Engr.—J. D. Rowbotham
M. M.—Walter Nock
EQUIPMENT—12 mills and 4 galvanizing pots
PRODUCTS—Automobile sheets for bodies, hoods, fenders, etc.; metallic furniture, full finished, single pickled, deep and extra deep drawing, galvanized, black, blue and roofing sheets

THOMAS STEEL PRODUCTS CO., THE, (Formerly East Ohio Mfg. Co.) Delaware St., Warren, O.
Pres.—C. G. Thomas
Treas. and Sec.—C. H. Lewis
Gen. Supt.—H. A. Mentall
PRODUCTS—Cold rolled strip steel

THOMPSON WIRE CO., THE, 41 Mildred Ave., Boston, Mass. Two plants at Worcester, Mass.
Pres. and Treas.—George M. Thompson
PRODUCTS—Flat wire and cold strip steel

(At 115 Stafford St., Worcester, Mass., Plant)

Mgr.—Giles S. Pease
Supt.—Allen P. Lindquist
PRODUCT—Cold strip steel

(At Matapan Plant, Worcester, Mass.)

Mgr.—A. L. Cowperthwaite

TIDEWATER STEEL CORP., Fidelity Bldg., Baltimore, Md. Plant: Hagerstown, Md.
Pres.—M. David Perine
Vice Pres.—D. D. Mallory
Sec. and Asst. Treas.—Arthur Aston
PRODUCTS—Cold and hot rolled steel

TIMKEN ROLLER BEARING CO., THE, Canton, O. Plants: Canton and Columbus, O.
Chairman and Pres.—H. H. Timken

Asst. to Pres.—D. P. Hess
Vice Pres.—M. T. Lothrop
Vice Pres.—H. J. Porter
Treas. and Sec.—J. F. Strough
Asst. Treas. and Asst. Sec.—W. A. Brooks
Gen. Mgr.—J. G. Obermier
Asst. Gen. Mgr.—Wm. E. Umstadt
Pur. Agt.—Peter Voss

(At Steel & Tube Division, Canton, O.)
Gen. Supt.—J. E. Daily
Supt. Blast Furnaces—J. H. Reifsnyder
Supt. Open Hearth, Blooming Mills and Elec. Furnaces—E. G. Stedman
Supt. Finishing Mills—S. T. Ball
Machine Shop Supt.—Harry Gruber
Brick Supt.—Harry Wills
Chief Engr.—Alois Hauser
Elec. Engr.—Geo. Goughenour
Asst. Elec. Engr.—Wm. Stark
Mech. Engr.—W. J. Assel
Steam Engr.—C. M. Maratta
Insp. Engr.—H. C. Weirick
Safety Engr.—E. E. Greene
M. M.—H. Y. McCool
Met.—T. W. Hardy
Roll Designer—Eugene Ball
Storekeepers—Chas. Haendle and Steve Finley
EQUIPMENT—One 7-ton, two 20-ton Heroult electric furnaces; one 100-ton open hearth furnace; one 35-inch 3-high mill; 4 stands, 22-inch 3-high bar mill, 1 stand, 16-inch, five 12-inch, three 10-inch, one piercing mill, cold drawing plant, electric heat treating and annealing furnaces
Capacity—168,000 tons ingots annually

(At Columbus, O., Plant)
Gen. Mgr.—W. A. Fowler
Asst. Gen. Mgr.—R. T. Matchett

TIOGA STEEL & IRON CO., 52nd St. and Grays Ave., Philadelphia, Pa.
Pres.—Percival Chrystie
Vice Pres.—G. R. Hanks
Treas. and Sec.—W. A. Ingram
Asst. Sec. and Asst. Treas.—H. W. Wyckoff
Pur. Agt.—L. F. Burkley
Gen. Mgr.—W. R. Tyson
Supt. Forging—C. Larson
Met.—H. E. Parkinson
M. M.—H. Gutsche
Elec. Engr.—T. E. Dyson
Machine Shop Supt.—R. S. Sowden
PRODUCTS—Forgings and special machinery
Capacity—10,000 tons per year
Railroads—Penna., Reading, B. & O.

TITANIUM ALLOY MFG. CO., THE, 94 Fulton St., New York, N. Y. Plant: Niagara Falls, N. Y.
Pres.—Wm. F. Meredith
Vice Pres. and Gen. Mgr.—Andrew Thompson
Treas. and Sec.—J. D. Meredith

(At Niagara Falls, N. Y., Plant)
Gen. Supt. and Chief Engr.—R. R. Pratt
Asst. Gen. Mgr. and Pur. Agt.—R. S. Tabor
Chief Chemist—C. J. Kinzie
Met.—Geo. F. Comstock
Foreman Machine Shop—Rudolph Haseley
Chief Draftsman—A. Skimin
Storekeeper—P. J. Quinn

TOLEDO CRANE CO., Lincoln Way and N. Y. C. R. R., Bucyrus, O.
Pres.—C. F. Michael
Gen. Mgr. and Chief Engr.—C. E. Schirmer
PRODUCTS—Overhead electric traveling cranes and hoists
Incorporated—$200,000
Railroads—N. Y. C., Penna.

TOLEDO FURNACE CO., 2000 Union Trust Bldg., Cleveland, O. Furnace at Toledo, O
Pres.—Henry S. Pickands
Vice Pres.—J. C. McLauchlan
Sec. and Treas.—S. E. Bool
Pur. Agt.—N. B. Prentice
Gen. Mgr.—E. B. Hull

(At Toledo, O., Front St., Furnace)
Gen. Supt.—J. S. Crowther
Supt. B. F.—E. L. Clair
Mech. Engr.—W. J. Rees
M. M.—Samuel Campbell
Chief Chemist—H. H. Hopple
Safety Insp.—David Patterson
Storekeeper—C. F. Morgan
EQUIPMENT—Two blast furnaces, 94 Koppers coke ovens
PRODUCTS—Pig iron, coke and by-products
Capacity—Pig iron, 432,000 tons; coke, 432,000 tons; light oils, 2,000,000 gallons
Railroads—W. & L. E., Toledo Term.

TOLEDO STEEL CASTING CO., THE, Smead Ave. and Bancroft St., Toledo, O.
Pres.—J. B. Nordholt
Vice Pres.—C. T. Johnson
Treas. and Sec.—C. C. Smith
Gen. Supt.—G. A. Weihrauch
Asst. Gen. Supt.—J. H. Nordholt
Elec. Engr.—Fred Manor
Steam Engr.—Thomas Williams
Gen. M. M.—H. L. Farner
Met.—Henry Traphagen
PRODUCTS—Small steel castings

TONAWANDA ELECTRIC STEEL CASTING CORP., 5 Mechanic St., No. Tonawanda, N. Y. Formerly Niagara Steel Fdry. Co.
Pres.—Lewis J. Fitzpatrick
Vice Pres.—F. J. Still
Treas. and Sec.—C. F. Towne

TONAWANDA IRON CORP., River Road, North Tonawanda, N. Y.
Pres.—C. M. Woolley
Vice Pres.—B. S. Stephenson
Treas.—Seth Barham
Sec.—F. J. Mullaney
Gen. Mgr.—Robert McClurkin
Supt. B. F.—Fred J. LaMotte
M. M.—F. B. Baldwin

Elec. Engr.—Henry Brooks
Supt. Labor—E. B. Markowitz
Chemist—W. J. Holt

TOWNSEND CO., New Brighton, Pa.
Pres. and Treas.—R. T. Townsend
Vice Pres and Sec.—J. M. Townsend
Gen. Mgr.—H. C. Weidner
Factory Mgr.—A. C. Townsend
Supt.—W. C. Couch
Supt. Elec.—George Pardoe
Chief Engr. and M. M.—Louis Berchtold
PRODUCTS—Rivets, wire nails, wire and wire specialties

TRAYLOR ENG. & MFG. CO., Allentown, Pa.
Chairman—S. W. Traylor
Pres.—W. J. Roberts
Vice Pres. Sales—W. C. McDowell
Vice Pres. and Treas.—F. W. Hopkins
Sec.—Jesse Mair
Pur. Agt.—W. W. Wieland
Gen. Mgr.—H. L. Miller
Supt. Pattern Shop—Irvin Easterday
Supt. Fdry.—Fenton Apgar
Chief Engr.—Richard Bernhard
M. M.—Wm. Bachman
Power and Elec. Engr.—A. J. Marshall
Foreman Machinist—Charles Christi
Chief Draftsman—C. H. Patten
Storekeeper—R. J. Gorman
PRODUCTS—Crushing, mining, cement, smelting, refining briquette machinery
Railroad—L. V.

TREADWELL ENGINEERING CO., Lennox and 25th Sts., Easton, Pa.
Chairman—J. S. Casey
Pres.—J. H. Killinger, 140 Cedar St., New York City
Vice Pres. and Works Mgr.—A. A. Neave
Treas. and Sec.—W. I. Gassert
Pur. Agt.—R. W. Foltz
Asst. to Works Mgr.—D. J. Breen
Supt. Iron Fdry.—S. B. Hood
Supt. Steel Fdry. and Met.—W. R. Forrester
Supt. Mach. Shop—Fred. Leiner
Supt. Yard—H. Hall
Chief Engr.—E. W. Mikaelson
Asst. Chief Engr.—C. T. Helstrom
Elec. Engr.—J. E. Wilson
EQUIPMENT—Pattern shop, iron and steel foundries, machine shop
PRODUCTS—Steel plant and rolling mill equipment and electric furnace steel castings, tube threading, hoisting and special machinery
Capacity—5,000 tons steel castings, 12,000 tons iron castings
Railroad—L. V., 13th St. Station, Easton, Pa.

TREATY COMPANY, THE, Jackson and Walker Sts., Greenville, O.
Pres., Pur. Agt., Gen. and Sales Mgr.—C. E. Breaden
Vice Pres.—C. J. Herr
Treas. and Sec.—Geo. F. Taylor
Supt. and Storekeeper—S. E. Breaden
PRODUCTS—Machine work, grey iron fdry.
Capacity—15 tons per day
Capital—$250,000. Bonds $20,000
Railroads—Penn. N. Y. C., B. & O.

TREDEGAR CO., THE, Richmond, Va.
Pres.—Archer Anderson, Jr.
Vice Pres. and Gen. Mgr. of Sales—J. R. A. Hobson
Treas.—J. R. J. Anderson
Supt. Roll Mills—Paul E. Miller
Supt. Fdry. Dept.—St. Geo. M. Anderson
Supt. Horse Shoe Sales—M. deG. Hobson
Auditor—W. R. Trainham
PRODUCTS—Spikes, railroad fastenings, car wheels, gray iron castings and horse shoes

TREMONT NAIL CO., Wareham, Mass.
Pres. and Treas.—Jas. S. Kenyon
Vice Pres.—A. B. Slater
Asst. Treas.—Jos. M. Clavin
Sec and Gen. Supt.—Wm. H. Thomas
M. M.—E. Briggs
PRODUCTS—Cut nails; black, galvanized and hardened steel
Capacity—70 tons daily
Capital—$100,000
Railroad—N. H. Siding

TRENTON MALLEABLE IRON CO., THE, New York and Ferrier Aves., Trenton, N. J.
Pres. and Gen. Mgr.—Frank J. Eppele
Treas. and Sec.—E. D. Bloor
Pur. Agt.—Josiah Hollies
Gen. Supt. and Elec. Engr.—Walter G. Bloor
Mech. Engr.—F. J. Buckley
Steam Engr.—Wm. Urch
Chief Draftsman—Frank Brady
Foreman Machinist—Jacob Loir
PRODUCTS—Malleable and gray iron castings
Capacity—6,000 tons annually
Capital—$500,000
Railroads—Penna., Reading

TROJAN ELECTRIC STEEL CO., 3401 South Hoyne Ave., Chicago, Ill.
Pres. and Treas.—Eugene Guy Lilly
Vice Pres.—C. J. Farwell
Sec.—H. C. Nellegar
Pur. Agt.—A. Nelson
Gen. Supt.—L. D. Jacobson
Met. and Chemist—Robert Larson
EQUIPMENT—Heroult electric furnace and hammers
PRODUCTS—Tool steels and special analysis steel
Capital—$75,000; issued, $72,600
Railroad—Chi. & Alton

TROY ENGINE & MACHINE CO., Troy, Pa
Pres. and Pur. Agt.—T. W. Parsons
Treas.—W. H. Parsons
Sec. and Sales Mgr.—A. R. McMahan
Supt. Mach. Shop—Ross Williams
Supt. Fdry.—Geo. H. Webb
Mech. Engr—Wilson Weigester
PRODUCTS—Steam engines from 2 to 200 h. p.

Capital—$300,000
Railroad—Penna.

TRUMBULL CLIFFS FURNACE CO., 1466 Union Trust Bldg., Cleveland, O. Furnace: Warren, O.
Pres.—Wm. G. Mather
Vice Pres.—John T. Harrington
Vice Pres.—D. T. Croxton
Treas.—C. G. Heer
Sec.—S. L. Mather
Residence Mgr.—J. S. Fraser
Capital—$4,500,000; bonds issued, $3,000,000

(At Warren, O., Furnace)

Gen. Supt.—J. S. Fraser
Supt. Coke Plant—Frank Moran
M. M.—H. Crooke
Elec. Engr.—O. C. Callow
Chemist—W. M. Edwards
Gen. Foreman—Ben Eggers
EQUIPMENT—Blast furnace and coke plant
PRODUCTS—Pig iron, coke, power, gas, tar, motor fuel, sulphate
Capacity—250,000 tons pig iron annually; 400,000 tons coke annually
Capital—$5,000,000
Railroads—B. & O., Erie and Penna.

TRUMBULL STEEL CO., THE, Pine St., Warren, O.
Chairman—Cyrus Eaton
Pres.—J. T. Harrington
Vice Pres. and G. M.—C. H. Elliott
Vice Pres.—A. N. Flora
Vice Pres.—Philip Wick
Treas. and Sec.—J. U. Anderson
Asst. Treas. and Asst. Sec.—D. S. Dennison
Comptroller—W. B. Ohl
Auditor—J. H. H. Farley
Pur. Agt.—L. G. Gorman
Asst. Pur. Agt.—F. B. Hamilton
Asst. Gen. Supt.—W. C. Buchanan
Supt. O. H.—J. R. Mountain
Supt. Bloom. and Bar Mill—Frank Hawkins
Supt. C. S. Mills—H. A. Fisher
Supt. Sheet and Tin Mills—S. B. Haarbye
Chief Engr.—J. A. Clauss
Asst. Chief Engr.—C. J. Duby
Supt. Hot Strip Mill—H. A. Schink
Supt. Elec. Steel Dept.—H. L. Barr
Chief Elec. Engr.—W. F. Rees
M. M.—C. W. Phillips
Chief Elec.—F. H. Mohr
Met.—C. W. Weesner
Chief Chemist—F. P. Stroud
Safety Engr.—Herbert Wilson
Roll Turner—S. A. Daniels
Foreman Mach.—R. G. Sampsell
Storekeeper—Fred E. Harris
Traffic Mgr.—E. T. Butler
EQUIPMENT—Eight 100-ton basic open hearth furnaces, 36-inch blooming mill; bar mill, 3 hot strip mills, 32 stands cold strip rolling mills, 44 rolling mills, galvanizing and tinning departments
PRODUCTS—Hoops, bands, hot rolled strip, cold rolled strip, black sheets, tin mill black, electrical sheets, automobile sheets, blue annealed sheets, galvanized sheets, galvanized roofing, black and painted roofing, enameling stock, tin plate, long ternes, short ternes
Capacity—500,000 tons finished
Capital—Preferred authorized, $15,000,000; common authorized, $1,500,000; issued, $9,998,700; 575,118 shares, no par; bonds issued, $12,588,000 6% bonds; $4,500,000 7% debentures
Railroads—Penna., B. & O., Erie

TUTTLE ROLLING MILL, CHARLES W., Auburn, N. Y.
Pres. and G. M.—Charles W. Tuttle
Treas., Sec. and Pur. Agt.—Kirk Bowen
Supt. R. M. and Safety Engr.—M. E. Tice
Chief Engr.—Wm. N. Hodgkiss
Roll Designer—Matthew J. Nolan
PRODUCTS—Double refined bar, staybolt and horseshoe iron

TYLER TUBE & PIPE CO., Washington, Pa.
Pres.—A. T. Harbeson
Vice Pres.—E. Tyler Davis
Asst. to Vice Pres.—W. F. Forgie
Sec. and Pur. Agt.—John H. Wallace
Gen. Supt.—H. F. Reese
Treas.—Chas. A. Bumpus
EQUIPMENT—Welded tubes and pipe making
PRODUCTS—Charcoal iron and lapweld open hearth steel tubes, steel pipe
Capacity—40,000 gross tons
Capital—$1,500,000; all issued
Railroads—B. & O. and P. R. R.

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ULSTER IRON WORKS, 21 N. Sussex St., Dover, N. J.
Pres.—Frank W. Hamilton
Vice Pres.—Henry T. Bradley
Treas. and Sec.—J. D. B. Vreeland
Pur. Agt.—F. T. Leighton
Gen. Supt.—Thomas H. Smith
Supt. Rolling Mill—Earle V. Singer
M. M.—Robert Bopp
Roll Designer—Leo Glenn
EQUIPMENT—22 double puddling furnaces, 2 rotary and 2 alligator squeezers, 5 reheating furnaces (two 2-door and three 3-door), 18-inch muck rolls (2-high, 2-stand), 18-inch muck rolls, (3-high, 1-stand), 20-inch bar mill rolls (3-high, 2-stand), 12-inch guide rolls with 4 stands (3-high and one stand 2-high), and 10-inch guide rolls with 3 stands (3-high and one stand 2-high)
PRODUCTS—Staybolt and engine bolt iron and hollow drilled staybolts
Capacity—26,000 net ton bars; 6,000 tons finished staybolts, annually.

UNION DRAWN STEEL CO., 401 Seventh Ave., Beaver Falls, Pa. Plants: Beaver Falls, Pa.; Gary, Ind.; Massillon, O. and Hartford, Conn.
Chairman—L. R. Davidson
Pres. and Gen. Mgr.—E. S. Hoopes

Vice Pres. Sales—Geo. B. Mitchell
Vice Pres. Opr.—L. E. Creighton
Treas. and Sec.—E. C. Rebeske
Asst. Treas.—H. A. May
Vice Pres. and Asst. Sec.—C. H. Beegle
Pur. Agt.—J. H. Graebing
Mgr. Plant No. 1—John C. Shillito
Mgr. Plant No. 3—D. D. Buchanan
Mech. Engr.—Earl Smith
Elec. Engr.—Robert Miller
Met.—J. D. Armour
Supt. Plant No. 3—Thomas Weiskoph
PRODUCTS — Cold finished steel bars, elevator guides, crank shafts, lock washer wire, special shapes
Railroads—Penna., P. & L. E.
Capital—$10,000,000

(At Hartford, Conn., Plant)
Supt.—John Malone
Plant Mgr.—R. K. Newman
Railroads—N. Y., N. H. & H.

(At Gary, Ind., Plant)
Plant Mgr.—Oliver Thompson
PRODUCTS—Bright finished steel, shafting, screw steel, alloy steel, Bessemer open hearth, all grades

(At Massillon, O., Plant)
Supt.—W. Beuchling
Plant Mgr.—E. A. Griffiths
Railroads—Penna., Wheeling & Lake Erie, B. & O., N. O. P. L. Elec. Lines

UNION ELECTRIC STEEL CORP., 504 Frick Bldg., Pittsburgh, Pa. Plant: Carnegie, Pa.
Pres.—C. B. Ferree
Vice Pres.—O. G. Leichliter
Treas.-Sec.—R. G. Campbell

(At Carnegie, Pa., Plant)
Works Mgr.—John E. Arthur
Met.—N. F. Tisdale
Foreman Heat Treat.—T. Cousins
PRODUCTS—Die blocks, drop forging supplies, forging billets

UNION IRON WORKS, 215 Montgomery Ave., Spokane, Wash.
Pres.—Austin Corbin, II
Vice Pres.—E. J. Roberts
Treas. and Sec.—J. M. Fitzpatrick
Asst. Gen. Mgr. and Pur. Agt. — T. E. McDonald
Chief Engr.—H. J. MacCamy
PRODUCTS — Steel castings, gray iron castings

UNION IRON WORKS, Hoboken, N. J.
PRODUCTS—Steel castings —

UNION IRON WORKS, 20th and Michigan Sts., San Francisco, Cal.
EQUIPMENT—Tropenas furnace
PRODUCT—Steel castings

UNION SPRING & MFG. CO., Granite Bldg., Pittsburgh, Pa. Plant: New Kensington, Pa.
Pres.—L. G. Woods
Vice Pres. and Gen. Mgr.—Albert Pancoast
Asst. to Pres.—F. E. Schaeffer
Asst. to Vice Pres.—W. F. McCabe
Sec. and Treas.—H. C. Bughman
Pur. Agt.—W. R. Blair

(At New Kensington, Pa., Plant, 2nd Ave. and 8th St.)
Supt. Spring Dept.—DuRay Smith
Supt. Fdry.—Chas. Gibson
Chief Engr.—H. J. Stewart
PRODUCTS — Steel castings, alloy castings, pressed shapes, journal boxes, coil and elliptic springs
EQUIPMENT—Electric furnace, Tropenas converter
Railroad—Penna.

UNION STEEL CASTING CO., 62nd and Butler Sts., Pittsburgh, Pa.
Chairman—C. C. Smith
Pres. and G. M.—J. P. Allen
Vice Pres. and Gen. Supt.—J. B. Henry
Vice Pres.—S. H. Church
Sec. and Sales Mgr.—W. E. Eichenlaub
Treas.—G. W. Eisenbeis
Pur. Agt.—H. C. Wickline
Asst. Sales Mgr.—W. H. Eisenbeis
Supt.—D. J. Evans
Met.—J. Lloyd Uhler
PRODUCT——Steel castings

UNION WIRE ROPE CO. (formerly Black Steel & Wire Co.), 720 Kennedy Bldg., Tulsa, Okla. Plant: Kansas City, Mo.
Pres.—Robert H. Bartlett
Asst. to Vice Pres.—Hal R. Gruber
Treas. and Sec.—Wm. L. Maxwell
Pur. Agt.—J. E. Sloan, Kansas City, Mo.
Pur. Agt. and Cashier—J. H. Hatch, Jr.

(At 21st and Manchester Ave., Kansas City, Mo.)
Gen. Supt.—M. G. Ensinger
Wire Rope Engr.—Walter Voigtlander
Wire Engr.—Curtis Voigtlander
EQUIPMENT — 7,500 annual tons wire mill, 25,000 annual tons rolling mill, 5,000 annual tons wire rope mill, 7 stranding and 3 closing machines
PRODUCTS—High carbon wire rope, oil and logging industries
Capital—Authorized $600,000. Outstanding $258,725 preferred, 8% cum. $100 par; $134,050 common, $50 par
Railroads—On Kansas City Southern Main Line; Belt Line Kansas City, Mo.

UNITED ENGINEERING & FOUNDRY CO., Pittsburgh, Pa. General offices: Farmers Bank Bldg. Plants: Frank-Kneeland Machine Dept., Pittsburgh, Pa., 54th St. and A. V. R. R.; McGill, Lincoln Foundry, 60th St., Pittsburgh, Pa.; Chilled Roll & Steel Fdry., Vandergrift, Pa.; Lloyd Booth Dept., Youngstown, O.; William Tod Dept., Youngstown, O.; Oak Street Fdry., Youngstown, O.; American Roll & Fdry., Canton, O.
Chairman—I. W. Frank
Pres.—F. C. Biggert, Jr.
1st Vice Pres.—G. G. Small
2nd Vice Pres.—William Gardner
Sec.—Charles E. Satler
Treas. and Auditor—Geo. H. Friesel

Sales Engr. Mchy.—K. C. Gardner
Asst. Sales Engr. Mchy.—W. W. McBane
Chief Engr.—Lane Johnson
Roll Designer—James W. Bray
Pur. Agt.—G. W. Sanborn

(At Pittsburgh, Pa., Frank-Kneeland Machine Co. Dept.)
Mgr.—A. J. Hartman
PRODUCTS—Rolling mill machinery and iron castings

(At Pittsburgh, Pa., Lincoln Foundry Dept.)
Mgr.—H. E. Walters

(At Pittsburgh, Pa., McGill Dept.)
Mgr.—Louis Voalker
PRODUCT—Rolling mill machinery

(American Roll & Fdry. Dept., Canton, O.)
Mgr.—John Quinn
PRODUCT—Sand and chilled rolls

(Youngstown, O., Youngstown District)
Dist. Mgr.—G. W. Knotts
Asst. Dist. Mgr.—H. M. Kelly
PRODUCTS — Rolling mill, steel works and tube works machinery and iron castings

(At Vandergrift, Pa., Works)
Mgr.—John C. Kahl
Supt. O. H.—Thomas Cosgrove
Supt. Fdry.—John McCormick
Met.—Robert Hopkins
M. M.—E. L. Hoofring
Foreman Core Dept.—John Stroster
Foreman Cleaning Dept.—C. E. Beatty

U. S. ALUMINUM CO., THE, Massena, N. Y.
EQUIPMENT—One 12-inch, one 10-inch, two 18-inch mills
PRODUCT—Aluminum wire cables

U. S. NAVY YARD, Charleston, S. C.
Commandant—N. A. McCully, Rear Admiral U.S.N.
Aide to Commandant—R. A. Awtrey, Ltd. Com. U.S.N.
Captain of the Yard—Wm. Ancrum, Capt. U.S.N.
Manager—G. C. Logan, Com. U.S.N.
Supply Officer—W. A. Merritt, Capt. (SC) U.S.N.
Plant Supt. — C. A. Trexel, Ltd. Com. (CEC) U.S.N.
Disbursing Officer — R. E. Barrett, Ltd. (SC) U.S.N.

U. S. STEEL CORP., 71 Broadway, N. Y. Subsidiary Companies; American Bridge Co., American Sheet & Tin Plate Co., American Steel & Wire Co., Carnegie Steel Co., Illinois Steel Co., Indiana Steel Co., Lorain Steel Co., Minnesota Steel Co., National Tube Co., Lorain, O. National Tube Co., Pittsburgh, Pa. Tennessee Coal, Iron & Railroad Co.
Chairman—James A. Farrell
Asst. to Pres.—John Hughes
Vice Pres.—D. G. Kerr
Vice Pres.—John Hulst
Sec.—Geo K. Leet
Treas.—G. L. Edwards
Comptroller—W. J. Filbert

UNITED STATES STEEL PRODUCTS CO., Rialto Bldg., San Francisco, Cal. (Pacific Coast Dept.) (Subsidiary American Sheet & Tin Plate Co.)
Vice Pres.—A. T. DeForest
Mgr. Sales Sheet and Tin Plate Dept.—I. B. Williams

(At Selling Bldg., Portland, Ore.)
Mgr. Sales Sheet and Tin Plate Dept.—E. R. Eldridge

UNITED STATES STEEL & WIRE CO., 32 Clinton St., Newark, N. J. Plant: Manufacturer's Place, Newark, N. J.
Pur. Agt.—T. A. Rufins
EQUIPMENT — Warehouse and rolling mill
PRODUCTS—Cold rolled strip steel and flat wire
Capacity—5 to 12 tons per day
Railroads—C. R. R. of N. J., Penna., L. V.

UNITED STEEL CO., P. O. Box 720, Everett, Wash.
Pres. and Gen. Supt.—C. J. Witney
Vice Pres. and Sec.—Jacob Anthes
Treas.—G. W. Mumaw
Asst. to Sec.—F. Hoekendorf
Chief Engr.—I. Mathiason
EQUIPMENT — 12-in., 5 stand, 3 high, rolling mill; reheating furnace
PRODUCTS—Reinforcing steel and merchant bars, rounds, squares and flats
Capacity—50 tons daily
Capital—$500,000; issued, $250,000
Railroads—C. M. & St. P., N. P., Great Northern

UNIVERSAL STEEL CO., Station St., Bridgeville, Pa. Plant: Kirwan Station, Pa.
Pres., Treas. and G. M.—Walter H. Baker
Asst. Treas.—J. Howard Blair
Pur. Agt.—P. J. Dugan
Sec.—E. L. Stockdale
Asst. Gen. Mgr.—J. O. Rinek

(At Kirwin Station, Pa., Plant)
Gen. Supt.—U. G. Miller
Supt. O. H.—L. H. Shoemaker
Supt. Roll Mill—W. E. Nickeson
Asst. Supt. Bar Mill—P. H. McGuier
Chief Engr. and Chief Draftsman—A. P. Krepp
Chief Elec. Engr.—C. O. Johnson
Mech. Engr.—H. E. Waddington
M. M.—T. M. Wilson
Steam Engr.—T. M. Williams
Met.—H. M. German
Met. Research—Frank Garrett
Chief Chemist—Thomas Dugan
Safety Engr.—P. J. Dugan
Roll Designer—W. H. Leech
Traffic Mgr.—W. D. Strain
Foreman Mach.—R. L. Painter
EQUIPMENT—13 stands and 3 bar mill trains, 3 6-ton Heroult electric furnaces and 1 25-ton acid open hearth furnace

PRODUCTS—High carbon alloy sheets and bars, agricultural steel shapes, shovel sheets, high grade saw steels, concrete bars, etc.
Railroad—Panhandle Div. Penna.

V

VALLEY MOULD & IRON CORP., Hubbard, O. Plants: So. Chicago, Ill., and Sharpsville, Pa.
Chairman—George H. Boyd deceased
Pres.—John E. Perry
Asst. to Pres.—A. E. Abel
Vice Pres.—Wm. Haig Ramage
Asst. to Vice Pres.—~~Francis W. King~~
Vice Pres.—Chas. E. Swab
Vice Pres.—R. C. Velte
Sec. and Treas.—J. W. Gault
Asst. Sec.—C. M. Allabach
Pur. Agt.—W. P. Webb
Gene. Supt.—William Roberts
PRODUCTS—Ingot molds and stools
Capacity—100,000 tons annually

(At Sharpsville, Pa.)
Asst. Supt.—~~H. B. Blackwell~~

(At South Chicago, Ill.)
Vice Pres.—Chas. E. Swab

VAN ALEN & CO., Northumberland, Pa.
Gen. Mgr.—E. G. Van Alen
EQUIPMENT—Two heating furnaces, 45 cut nail machines and 20-inch rolling mill for nail plate
PRODUCTS—Cut nails
Capacity—100,000 kegs annually
Partnership
Railroads—Penna., D. L. & W.

VANADIUM-ALLOYS STEEL CO., Latrobe, Pa.
Pres.—Roy C. McKenna
Vice Pres. Sales—Floyd Rose
Vice Pres.—E. L. Moberg
Sec.—F. P. Underwood
Treas.—Jos. E. Barnett
Gen. Supt.—C. R. Sipe
Asst. Gen. Supt.—F. A. Moberg
Supt. Rolling Mills—C. G. Watt
Elec. Engr.—E. R. Kuhlman
Gen. M. M.—James Rogers
Met.—J. P. Gill
Met.—L. D. Bowman
Chemist—M. A. Frost
PRODUCTS—High-speed, alloy and carbon tool steels

VANADIUM CORP. OF AMERICA, 2923 Equitable Bldg., New York, N. Y. Plants: Bridgeville, Pa.; Niagara Falls, N. Y. Mines: Peru, S. A.; Rhodesia, South Africa; Canada; Colorado and New York States, U. S. A.
Pres.—A. A. Corey, Jr.
Vce Pres.—B. O. Saklatwalla
Asst. to Pres.—Henry T. Chandler
Treas. and Sec.—Edgar R. Alpaugh
Gen. Mgr. Sales—N. Petinot
Chief Metl. Engr.—George L. Norris
Capital—500,000 shares no par value, issued, 378,367 1/3 shares

(At Strauss Bldg., Chicago, Ill.)
Rep.—C. B. Woodworth

(At Book Bldg., Detroit, Mich.)
Manager—C. N. Dawe
Asst. Mgr.—T. Bourke

(At Bridgeville, Pa.)
Supt.—Arthur N. Anderson
Met.—H. Earl Dunn
Research Met.—A. W. Demmler
Gen. M. M.—Robert M. Menk
Gen. Elec. Engr.—O. M. Svensson
Chief Chemist—L. E. Harper
Chief Acct.—F. A. Fritschi
EQUIPMENT—Two 4,000-kva., one 750-kva. furnaces, 220 volts, 60 cycles and two 5-ton alumino-thermic reduction furnaces
PRODUCTS—Vanadium, tungsten, molybdenum alloys and metals, oxides and salts of vanadium, tungsten and molybdenum, and other rare elements

(At Niagara Falls, N. Y.)
(U. S. Ferro Alloy Division)
Gen. Mgr.—C. S. Proudfoot
Chemist—Harry Fath
Chief Clerk and P. A.—W. J. Morgan
EQUIPMENT—Eight electric furnaces
Capacity—35,000 kva., 110 volts, 25 cycles
Railroad—N. Y. C.

VIRGINIA IRON, COAL & COKE CO., Colonial National Bank Bldg., Roanoke, Va.
Pres.—John B. Newton
Vice Pres.—D. D. Hull, Jr.
Treas. and Sec.—J. W. Cure
Asst to Pres.—C. E. Bertie
Pur. Agt.—M. A. Shuff
Gen. Sales Mgr.—J. F. Hunter
Supt. B. F.—J. T. Pritchett
Gen. Supt. Coal Mines—J. D. Martin
Auditor—J. J. Sellers
PRODUCT—Pig iron

VOLK BROTHERS IRON WORKS, 3674 Clark Ave., St. Louis, Mo.
Pres.—A. J. Volk
Vice Pres.—Julius Volk
Sec. and Treas.—A. L. Volk
EQUIPMENT—Punch presses, drill presses, emery wheels, forges, air compressors, shears, punches, dies and portable electric tools
PRODUCTS—Ornamental iron and bronze
Capital—$40,000

VULCAN CRUCIBLE STEEL CO., Aliquippa, Pa.
Pres. and Gen. Mgr.—Samuel G. Stafford
Vice Pres.—Joseph A. Kelly
Treas.-Sec.—Wilson A. Campbell
Asst. Treas. and Gen. Supt.—R. M. Kelso
Asst. Gen. Supt.—Andrew Dowds
Pur. Agt.—Stephen B. Minton
Met.—Alfred Beeken

Chemist—James Sloss
Asst. Chemist—John Donaldson
PRODUCTS—Tool steels

VULCAN IRON WORKS, South Main St., Wilkes-Barre, Pa. Plants: Wilkes-Barre, West Pittston and Buttonwood, Pa.
Pres. and G. M.—Samuel T. Nicholson
Vice Pres. and Asst. G. M.—Geo Nicholson
Sec. and Mgr. of Pur.—Fred O. Smith
Treas.—Wm. E. Willingale
Chief Engr. and Draftsman—Carl Finger
Asst. Chief Engr.—Roscoe Moore
Supt. South Wilkes-Barre Plant—J. T. Nicholson
Met.—John F. Culp
Foreman Mach. Shop, South Wilkes-Barre Plant—H. I. Keiner
Foreman Boiler Dept., South Wilkes-Barre Plant—Frank Tucker
Foreman Forge Shop, South Wilkes-Barre Plant—Robt. C. Meyer
Foreman Repair Dept., South Wilkes-Barre Plant—Thomas Holmes
Chief Elec.—Harry A. Wolfe
Chief Insp.—John S. Jones
Supt. Locomotive Plant, Wilkes-Barre—T. Y. Millen
Supt. Pittston Plant, West Pittston—John Turnbach
Supt. Steel Fdry., Buttonwood, Pa.—R. W. Thomas
PRODUCTS—Locomotives, steam, gasoline and electric; electric and steam mine hoists; cement and lime making machinery; cane sugar machinery; coal mining machinery; open hearth steel castings; grey iron castings, mine cages, skips, etc.; sheave wheels; moulded tooth and machine cut gears; coal crushers and rolls; mine ventilating fans; sheet metal work and tanks
Capital—$3,000,000
Railroads—Penna., L. V., C. R. R. of N. J., D. L. & W.

VULCAN MOLD & IRON CO., Latrobe, Pa.
Pres.—E. H. Williams
Asst. to Pres. and Pur. Agt.—Edward R. Williams
Treas. and Sec.—H. H. Smith
Supt.—H. D. Krummell
Auditor—C. F. Smith
EQUIPMENT—Two plants, 4 cupolas, 2 electric furnaces
PRODUCTS—Split and solid ingot molds and high grade iron and alloy castings, electrically melted
Capital—$500,000; issued, $370,000
Railroads—Penna. and Ligonier Valley

W

WADDELL STEEL CO., Niles, O. (Purchased Empire Wrks of Brier Hill steel plant from Youngstown Sheet & Tube Co.)
Pres. and Treas.—Jacob D. Waddell
Vice Pres.—R. L. McCorkle
Sec.—M. A. Jones
Supt.—D. R. Fithian
EQUIPMENT—7 hot mills, 7 roughing mills, 3 cold mills, galvanizing plant
PRODUCTS—Black, pickled and galvanized sheets
Capacity—50,000 tons annually

WALSH & McGEE STEEL CO., 90 West St., New York, N. Y. Plant: Newark Bay, Newark, N. J.
Pres.—Harry L. McGee

WALSH & WEIDNER BOILER CO., W. Main St., Chattanooga, Tenn.
Pres.—L. W. Llewellyn
Asst. to Pres. and Gen. Mgr.—S. H. Daniels
Treas.—H. L. Heibeck
Sec.—C. P. Llewellyn
Pur. Agt.—P. J. Mullery
Gen. Supt.—Geo. T. Smith
Chief Engr.—C. F. Weigel
Draftsman—B. W. Holtzclaw
PRODUCTS—Boilers and plate work

WALWORTH CO., 88 Pearl St., Boston, Mass. Plants: First and O. Sts., Boston, Mass.; Kewanee, Ill.; Greensburg, Pa., and Attalla, Ala.
Pres.—Howard Coonley
Vice Pres. Sales—P. L. Coonley
Vice Pres. and Treas.—G. A. Ricker
Vice Pres.—John M. Olmsted
Vice Pres.—A. J. Mather
Chief Engr.—F. H. Morehead

(At Boston Plant, First and O. Sts.)
Gen. Supt.—J. E. Hart
Works Mgr.—A. O. Brungardt
Supt. Finishing Div.—W. C. Adams
Supt Maint. and Materials—R. E. Henchey
Supt. Tool Div.—O. W. Berg
Works Engr.—W. A. Patscheider
PRODUCTS—Valves, pipe fittings for iron and brass, pipe wrenches and tools

(At Attalla, Ala., Plant)
Supt.—C. A. Jones
M. M.—A. M. Girten, Jr.

(At Kewanee, Ill., Plant)
Pur. Agt.—R. W. Gamble
Works Mgr.—A. J. Mather
Gen. Supt.—R. W. Rounseville
Supt. Fdrys.—F. H. Kennish
Power Engr.—Claude Bates
Asst. Chief Engr.—Harry McCarthy

(At Greensburg, Pa., Plant)
Asst. Treas.—W. V. Lindblom
Pur. Agt.—H. E. Blansett
Gen. Supt.—C. F. Lundblom
Works Mgr.—G. W. Cotton
Asst. Chief Engr.—J. D. McManus
Chemist—A. G. Francis
EQUIPMENT—Two Swindell electric furnaces, 1½-ton capacity
PRODUCTS—Cast steel valves and fittings
Railroad—Penna.

WARMAN STEEL CASTINGS CO., 6100 So. Boyle Ave., Los Angeles, Cal.
Pres.—Charles J. Wild
Vice Pres.—F. D. Wild
Sec. and G. M.—J. P. Arnoldy
Gen. Supt.—A. B. Van Eschen
EQUIPMENT—Two 3-ton Heroult furnaces, one 3-ton Moore furnace
PRODUCT—Steel castings
Capacity—1,000 tons per month
Capital—$500,000, all issued

WARNER IRON CO., Cumberland. Furnace: Dickson County, Tenn.
(Plant idle)
Owner—Joseph Warner
PRODUCT—Ferro phosphorus

WARREN FDRY. & PIPE CORP., Wharton, N. J. Formerly Replogle Steel Co.
Pres.—Leonard Peckitt, 11 Broadway, New York, N. Y.
Vice Pres.—W. H. Hulick
Treas.—Ludwig R. Dohm
Sec.—Samuel H. Bell
Asst. Sec. and Asst. Treas.—Edgar L. Hopler
Pur. Agt.—L. H. McClellan
EQUIPMENT—Two modern furnaces
PRODUCTS—Pig iron, ore and limestone
Capacity—300,000 tons pig iron per annum
Capital—500,000 shares
Railroads—D. L. & W., C. R. R. of N. J., Wharton and Northern R. R.

WARREN IRON & STEEL CO., THE, Dana and Paige Aves., Warren, O.
Receiver—J. C. Manternach
PRODUCTS—Saw and shovel plates, alloy steel plates, open hearth steel discs, rolling coulter blades for agricultural implements

WASHBURN WIRE CO., Phillipsdale, R. I.
Pres.—Frank N. Phillips
Vice Pres. Opr.—F. C. Weidenmiller
Treas.—Fuller F. Barnes
Comptroller—J. E. Hayward
Sec. and Pur. Agt.—W. C. Ingerson
Gen. Mgr.—Thomas Wray
Asst. Gen. Mgr.—J. C. Richardson
Gen. Supt.—O. W. Lundgren
Asst. Gen. Supt. and Met.—C. P. Bearce
Supt. O. H.—Nelson L. Pahline
Supt. Roll Mill—W. R. Reeves
Chief and Elec. Engr.—E. S. Parsons
M. M.—Mortimer Stevens
Chief Draftsman—O. L. Giffin
Storekeeper—C. H. Everett
EQUIPMENT—Two rolling mills, three open hearth furnaces
PRODUCTS—Billets, rods and wire
Capacity—30,000 tons annually
Railroads—N. Y., N. H. & H., Tidewater

WASHINGTON IRON WORKS, 1100 Seattle Blvd., Seattle, Wash.
Pres. and G. M.—Gerald Frink
Vice Pres. and Sec.—Francis G. Frink
Treas.—C. F. Bridge
Gen. Supt. Steel Fdry.—R. L. Walker
Chief Engr.—A. L. Hiles
Mech. Engr. and Chief Draftsman—Knute Berger
Foreman Mach. Shop—Wm. Carson
EQUIPMENT—Three-ton Heroult electric furnaces
PRODUCTS—Carbon and manganese steel castings
Capacity—About 2,000 tons annually
Capital—$500,000; bonds issued, $345,000
Railroad—Great Northern

WASHINGTON TIN PLATE CO., Washington, Pa.
Pres.—G. W. Hannan
Vice Pres., Treas. and Sec.—John F. Kraft
Pur. Agt., Asst. Sec. and Asst. Treas.—B. F. Brehl
Gen. Mgr.—T. P. McDonnough
Asst. Gen. Supt.—C. Ellis
Chief Elec. Engr.—J. G. Dunning
M. M.—A. H. Seinle
EQUIPMENT—Six mills
PRODUCTS—Tin plate and black plates
Capacity—600,000 base boxes
Capital—$1,800,000
Railroads—Penna., B. & O.

WATERBURY-FARRELL FDRY. & MACHINE CO., 453 Bank St., Waterbury, Conn.
Pres. and Treas.—W. S. Fulton
Vice Pres. and Sec.—D. S. Griggs
Asst. Treas.—F. L. Squires
P. A.—F. J. Willets
Gen. Supt.—W. J. Secor
PRODUCTS—Power presses, headers, rolling mill machinery, rivet, nut and bolt machinery, cold rolling mill equipment, wire drawing machinery
Capital—$2,500,000; issued, $2,378,500
Railroads—N. Y., N. H. & H.

WEATHERLY STEEL CASTINGS CO., Weatherly, Pa.
Pres.—A. G. Isaacs, Wilkes-Barre, Pa.
Vice Pres., Treas. and G. M.—C. H. Bliem at Hazleton, Pa.
Sec.—H. A. Behrens, Wilkes-Barre, Pa.
Gen. Foreman—Conrad Pheiffer
PRODUCT—Converter steel castings

WEHR STEEL CO., Milwaukee, Wis.
Pres.—Wm. E. Wehr
Vice Pres.—E. R. Wehr
Vice Pres.—H. W. Wehr
Treas., Sec. and Gen. Mgr.—C. F. Wehr
Pur. Agt.—A. C. Blumberg
Gen. Supt.—J. H. Mayworm
Chem. and Met.—H. Hoffman

WEIR-KILBY CORP., successors to Weir Frog Co., and Kilby Frog & Switch Co., Cincinnati, O., and Birmingham, Ala.
Pres.—O. D. G. Vanderbilt, Jr.
Vice Pres.—E. M. Kilby
Vice Pres.—J. K. Lansdowne
Treas.—Miss M. G. Miller
Pur. Agt.—J. G. Kreis
Works Mgr.—E. H. Schubert at Plant K, Birmingham, Ala.

WEIRTON STEEL CO., Weirton, W. Va. Also plants at Steubenville, O., and Clarksburg, W. Va.
Pres.—E. T. Weir
Vice Pres.—D. M. Weir
Vice Pres.—W. H. Baldridge
Vice Pres.—H. D. Westfall
Vice Pres.—J. C. Williams
Treas.—R. J. Hanna
Sec. and Gen. Sales Mgr.—J. J. Watson
Asst. to Pres.—F. A. Hanlin
Pur. Agt.—W. A. Murphy
Asst. Mgr. Sales—H. O. Smith
Mgr. Tin Plate Plants—E. M. Mentzer
Auditor—F. M. Hesse
Gen. Traffic Mgr.—W. F. Morris, Jr.
Traffic Mgr.—A. S. Earp
Chief Engr.—C. H. Hunt
Chief Elec.—A. W. Duncan
Steam Engr.—J. H. Strassberger
Gen. M. M.—J. S. Williamson
Met.—J. D. Gold
Chief Chemist—L. L. LaShell
EQUIPMENT—Sheet mills, 9, annual capacity, 60,000 net tons; Tin Mills, 50, annual capacity, 4,250,000 base boxes; range of rolling limits, tin and terne plate, 55 lb. base and heavier tin mill sizes, black, blue annealed and galvanized, No. 10 to 30 ga., 24-inch to 38-inch wide, 96-inch to 144-inch long, according to gauge
PRODUCTS—Tin and terne plate, hot and cold rolled strip steel, black sheets (tin and sheet mill sizes), uniform color stove pipe stock, blue annealed, galvanized sheets, etc.

(At Furnaces and Steel Works, Weirton, W. Va.)
Mgr.—E. J. Anglin
Supt. B. F.—H. E. McDonnell
Asst. Supt. B. F.—A. M. Baker
Supt. O. H.—F. A. King
Asst. Supt. O. H.—Chas. Carr
Supt. Roll Mill—J. P. Nelson

(At Sheet Mill, Plant, Weirton, W. Va.)
Mgr.—J. M. Hill
Chief Clerk—R. F. Horn
PRODUCTS—Black sheets, blue annealed, galvanized flat and corrugated sheets, crimped sheets and roll roofing; weatherboard siding, plain brick siding

(At Tin Plate Dept., Weirton, W. Va.)
Mgr.—E. W. Rieger
Asst. Mgr.—E. O. Burgham
PRODUCTS—Tin and terne plate, black sheets, terne roll roofing

(At Strip Steel Plant, Weirton, W. Va.)
Mgr.—F. E. Flynn
Asst. Mgr.—W. R. Siedenberg
Supt. Hot Mill—C. R. Fox and E. G. Waltman
Supt. Cold Mill—P. E. Flood and E. H. Meyer
PRODUCTS—Hot and cold rolled strip steel

(At Steubenville, O., Plant, 202 Slack St.)
Mgr.—E. E. Paddock
Supt. Roll Mill—James Rogers
Chief Elec. Engr.—Wm. Rogers
M. M.—C. L. Bonar
Foreman Mach.—W. O'Brien
Storekeeper—Lester Waltz
PRODUCTS—Tin plate and black plate

(At Clarksburg, W. Va., Tin Plate Plant)
Mgr.—O. H. Burgham
Chief Engr.—C. H. Hunt
Chief Elec.—A. W. Duncan
M. M.—J. S. Williamson
Met.—J. D. Gold
Chief Chemist—L. L. LaShell
Safety—J. L. Junkin
PRODUCTS—Black plate and tin plate

WELDLESS TUBE CO., Wooster, O.
Pres. and Treas.—J. Ramsey Speer, Pittsburgh, Pa.
Vice Pres.—John C. Schultz
Sec. and Asst. Treas.—H. B. Hatton
PRODUCT—Seamless steel tubing

WELLMAN-SEAVER-MORGAN CO., 7000 Central Ave., Cleveland, O.
Pres.—J. H. Bode
Vice Pres.—F. I. Sanderson
Vice Pres.—S. R. Willock
Treas.—N. R. Fairlamb
Sec.—Fred Stadelman
Pur. Agt.—Melville Irwin
Gen. Supt.—J. B. Shaub
Railroad—Penna.

WELLSTON IRON FURNACE CO., Jackson, O. Furnace: Wellston, O.
Pres.—S. E. Stephenson
Treas.—S. A. Sternberger
Sec.—Joseph McGhee
Gen. Supt.—J. A. Blank at Superior, Lawrence County, O., Portland cement plant. Furnace not operating

WESTINGHOUSE ELECTRIC & MANUFACTURING CO., East Pittsburgh, Pa.
Pres.—E. M. Herr
Vice Pres., and Gen. Mgr.—F. A. Merrick
Vice Pres. Sales—E. D. Kilburn
Asst. to Vice Pres. and Gen. Mgr.—R. L. Wilson
Treas.—H. F. Baetz
Sec.—J. C. Bennett
Pur. Agt.—C. G. Bunnell
PRODUCTS—Electrical machinery and equipment

WEST LEECHBURG STEEL CO., Farmers Bank Bldg., Pittsburgh, Pa. Plant: West Leechburg, Pa.
Chairman—John W. Kirkpatrick
Pres. and G. M.—James Lippincott
Assts. to Pres.—Charles S. Todd and Malcolm W. Leech
Vice Pres.—J. L. Kirkpatrick
Vice Pres.—D. M. Campbell
Treas. and Sec.—George W. Sheridan
Pur. Agt.—A. S. Geiger
Sales Mgr.—John E. Garrity

(At West Leechburg, Pa., Plant)
Works Mgr.—Noble Jones
Chemist and Met.—N. H. Henderson
EQUIPMENT—One 16-20-inch semi-continuous hot strip mill; one 12-inch Belgian and one 9-inch semi-continuous hot strip mill; 30 cold rolling mills
PRODUCT—Hot rolled and cold rolled strip steel
Capacity—200,000 net tons strip steel annually

WEST MICHIGAN STEEL FOUNDRY CO., Muskegon, Mich.
Pres.—W. E. Jeannot
Vice Pres. and G. M.—John W. McKeon
Sec.—Charles A. Larnard
Treas.—John B. Jardine
Gen. Supt.—James P. McKeon
Elec. Engr.—Joseph P. Canton
Chemist—Wm. McIntyre
PRODUCT—Steel castings (electric furnace process)

WEST PENN STEEL CO., Brackenridge, Pa.
Pres.—Julian Burdick
Asst. to Pres.—V. L. McClay
Vice Pres. and Sec.—W. W. Ford
Vice Pres.—C. K. Nichols
Treas. and Met.—J. E. Ober
Asst. Treas.—M. C. Bair
Gen. Mgr.—J. T. Stainer
Pur. Agt.—R. B. McKee, Jr.
Supt.—F. C. Reinehr
Supt. O. H.—R. L. Ashbaugh
Brick Supt.—J. E. White
Chief Engr. and Steam Engr. and M. M.—G. S. Reynolds
Chief Elec.—L. F. Galbraith
Safety Engr.—H. E. Morrison
Foreman Finishing Mills—S. O. Dickerson
Draftsman—E. B. Todd
Chemist—Wm. F. Collman
Roll Designer—Jos. Strub
Storekeeper—John Galbraith
EQUIPMENT—Four open hearth furnaces, one 30-inch 3-high bar mill, 10 hot and 12 cold mills
PRODUCTS—Open hearth steel, sheet bars, black sheets, automobile and electric sheets
Capacity—100,000 tons of sheet bars, 60,000 tons of steel sheets
Capital—$5,000,000
Railroad—Conemaugh Div. of Penna.

WEST STEEL CASTING CO., 805-851 East 70th St., Cleveland, O.
Pres. and Treas.—R. H. West
Vice Pres. and Sec.—D. P. Lansdowne
Supt. Fdry.—E. C. Pender
Chief Engr.—J. Kendall
PRODUCTS—Steel castings and motor truck wheels

WEST VIRGINIA RAIL CO., THE, Foot of Seventeenth St., Huntington, W. Va.
Pres.—Joseph Schonthal
1st Vice Pres. and G. M.—H. A. Zeller
Second Vice Pres.—S. N. Summer
Treas. and Sec.—D. C. Schonthal
Asst. Sec. and Sales Mgr.—C. C. Watters
Pur. Agt.—A. A. Meyer
Gen. Supt. and Chief Engr.—H. H. Diehl
Asst. Supt. and Asst. C. E.—A. V. Berthold
Roll Designer—W. G. Evans
EQUIPMENT—21-inch mill—power 1500 hp. motor; 16, 12-inch mill; 1200 hp. steam engine
PRODUCTS—Light steel rails, 8 to 60 lb. section; frogs and switches; steel mine ties; concrete bars; splice and angle bars, spikes and shapes
Capital—$1,000,000; all issued

WESTERN CRUCIBLE STEEL CASTINGS CO., 2833 Grand Ave., So. Minneapolis, Minn.
Chairman—G. T. Honstain
Pres. and Pur. Agt.—V. G. Honstain
Vice Pres.—E. W. Kneeland
Treas.—C. M. Haywood
Sec.—W. J. Milne
Gen. Mgr.—E. F. Junger
Gen. Supt.—George V. Ziemer
Met. and Chemist—A. G. Zima
Foreman Fdry.—T. Perchen
Foreman Core Room—M. McDill
EQUIPMENT—One 3-ton and one 1½-ton Snyder furnaces, complete molding and cleaning equipment
PRODUCTS—Electric steel castings
Capacity—Twenty tons per day
Railroad—Side track C. M. & St. P.

WESTERN STEEL CO., formerly Utah Steel Corp., P. O. Box 11, Midvale, Utah
Gen. Mgr.—James J. Burke
Gen. Supt.—C. Jones
EQUIPMENT—Two open hearth furnaces, one 22-inch mill, one combination 10-ft., 16-ft. mill. Oil used for fuel
PRODUCTS—Reinforcing and merchant bars, small rails up to 30 lbs.

WHARTON JR. & CO., WILLIAM, Easton, Pa.
Pres.—Percival Chrystie
Vice Pres.—Geo. R. Hauks
Vice Pres.—Chas. M. Griffith
Treas.-Sec.—W. A. Ingram
Asst. Sec. and Asst. Treas.—H. W. Shaner
Gen. Supt.—Wm. G. Hulbert
Chief Draftsman—Herman F. Heyl
PRODUCTS—Track work, steel castings, forgings, seamless gas cylinders
Railroads—C. R. R. of N. J., and Lehigh Valley

WHEELDON WIRE CO., Pleasant St., West Brookfield, Mass.
Pres.—P. G. Holmes
Vice Pres. and Gen. Mgr.—Percival S. Andrews
Treas.—Charles H. Sparrell
PRODUCTS—Iron and steel wire of quality, from domestic and Swedish rods; all sizes and tempers of round wire in bright, liquor, coppered, or tinned of annealed or hard finish

WHEELING MOLD & FOUNDRY CO., Wheeling, W. Va.
Pres. and G. M.—H. E. Field
Asst. to Pres.—David Wyman
Treas. and Sec.—C. C. Woods
Pur. Agt.—E. L. Schafer, Jr.
Chief Engr.—J. A. Hellstrom
Met.—R. C. Heaslett
Supt. Peninsula Plant—E. C. Rauschenberg
Supt. Warwood Plant—T. W. Daniels
Asst. Gen. Supt.—W. MacGregor
Elec Engr.—W. B. McMasters
PRODUCTS—Steel and iron castings, steel and iron rolls, rolling mill and miscellaneous machinery

WHEELING STEEL CORP., Wheeling, W. Va. General offices: Wheeling. Plants: Wheeling, Portsmouth and Steubenville, O., Consolidation of Wheeling Iron & Steel Co., Whitaker Glessner Co., and La Belle Iron Works
Chairman—Alexander Glass
Pres.—Isaac M. Scott
Asst. to Pres.—Parker F. Wilson
Vice Pres. Opr.—Geo. W. Moore
Vice Pres. Sales—Walter B. Higgins
Asst. to Vice Pres.—Henry D. Scott
Treas.—W. H. Manning
Asst. Treas.—George P. Whitaker
Sec.—H. P. Beswick
Gen. Pur. Agt.—E. D. Adams
Asst. Sec.—L. W. Franzheim
Gen. Mgr. Sheet and Black Mills, Wheeling Dist.—T. A. Lewis
Gen. Supt. B. F.—P. G. Wilander
Gen. Traffic Mgr.—A. P. Oxtoby
Gen. Supt. Mines—Geo. W. Gehres
Gen. Supt. Galvanizing—W. J. Cook
Supervisor Production—Howard K. Moore
Mgr. River Trans.—Thos. Cavanaugh

(At Portsmouth, O.)
Gen. Mgr.—C. C. Caudill
Asst. to Gen. Mgr.—E. A. Eynon
Gen. Supt.—C. E. Korns
Asst. Gen. Supt.—C. H. Moreland
Asst. Gen. Supt.—A. E. Cunliffe
Supt. B. F.—Karl Steinbacher
Asst. Supt. B. F.—J. B. Burke
Supt. O. H.—Robert Cullen
Supt Maintenance—E. R. Hoerle
Asst. Supt. O. H.—E. E. Brown
Supt. Rolling Mill—W. M. Meguigan
Supt. Steel Fdry.—A. E. Forsberg
Chief Engr.—W. H. Chandler
Chief Elec. Engr.—H. C. Mosley
Asst. Elec. Engr.—G. O. Saxby
Steam Engr.—J. W. Jones
Met.—W. E. Gemmill
Chief Chemist—A. Kugleman
Chief Draftsman—H. G. Vaughn
Safety Engr.—F. H. Rowe
Roll Designer—Joseph Scholl
Storekeeper—P. L. Wohler
PRODUCTS—Pig iron, ingots, billets, slabs, sheet bars, blue annealed sheets, O. P. C. R. sheets, roofing, electrical sheets, high grade sheets, range boilers, expansion tanks, steel barrels, tie plates, rods, nails, bright and galvanized wire, woven and barbed wire fence

(At Steubenville, O. Works, formerly La Belle Iron Works)
Gen. Mgr.—E. N. McKelvey
Gen. Supt.—J. F. Spellacy
Supt. B. F.—Guy Wehr
Supt. O. H.—J. O. Griggs
Supt. Sheet Mill—Chas. G. Runyan
Supt. Bloom. and Bar Mill—Alex McMichael
Supt. Plate Mill—John Daugherty
Supt. Pipe Mills—J. M. Daley
Supt. Sheet Galvanizing—H. M. McCleary
Supt. Maintenance—J. D. Tinsman
Supt. Elec. Dept.—James Farrington
Supt. Yards—C. G. Smith
Supt. Coke Ovens—J. M. Lowery
Supt. Masonry—Alex Arthurs
Chief Engr.—W. T. Ryan
Fuel Engr.—Frank Grenley
Met.—E. T. Wood
Chief Chemist—F. M. Irish
Safety Insp.—J. L. Sivard
Roll Designer—Oliver Howells
Storekeeper—Paul L. Wharton
PRODUCTS—Coal, Coke, pig iron, ingots, billets and slabs, sheet bars, skelp, plates, blue annealed sheets, O. P. C. R. sheets, galvanized sheets, merchant pipe, (B. W.-L. W.) line pipe, oil country pipe

(At Yorkville, O.)
Supt.—T. J. Murphy
Asst. Supt.—J. B. Scanlon
M. M.—J. P. Gillis
Chief Elec.—John S. Kenney
Foreman machinist—Victory Gregory
Chemist—H. A. Stobbs
Storekeeper—L. H. Bishop

(At Benwood, W. Va., Works)
Gen. Mgr.—J. W. Carpenter
Chief Engr.—C. E. Bedell
Asst. Chief Engr.—A. L. Milton
Steam Engr.—J. L. Miller
Safety—P. F. Haberstick
Supt. Steel Works—J. H. McClain
Supt. Tube Works—J. A. Clark
Asst. Supt. Tube Works—Roy McCullough
M. M.—Joseph Wallace
Chemist—J. W. Bowman
Foremen Machinists—Alfred Reidel and John Williams
Storekeeper—J. F. Johnson

(At La Belle Works, 31st St., Wheeling, W. Va.)
Supt.—L. R. Crago
M. M.—M. E Church
Foreman Machinist—Henry Megale
Storekeeper—B. W. Shanley

(At Belmont Works, Wheeling, W. Va.)
Supt.—J. J. Weitzel
M. M.—William Bandi
Foreman Machinist—Frank Carney
Storekeeper—Harold Ingram

(At Topp Furnace, Wheeling, W. Va.)
Supt.—Harry Heffrin
M. M.—Edward Bingell
Storekeeper—Wm. Graham

(At Whittaker Works, Wheeling Island, Wheeling, W. Va.)
Gen. Supt.—J. N. Felton
Asst. Gen. Supt.—Fred Klug
Supt. Finish Mill—J. S. Evans
Works Engr.—C. A. Verwholt
Chief Elec.—Thomas Swaine

(At Corrugating Works, Martins Ferry, O.)
Supt.—Rudolph Jarrett

(At Sheet Mills, Beach Bottom, W. Va.)
Supt.—B. I. Hildebrand

(At Martins Ferry, O.)
Gen. Supt.—P. G. Wilander
Blast Furnace Supt.—A. M. Tighe
M. M.—M. J. Naughton
Chemist—J. W. Bowman
Safety—P. Haberstick
Storekeeper—Don Furness
PRODUCTS—Pig iron (Bessemer)
Capacity—375 tons

WICKWIRE BROTHERS, 189 Main St., Cortland, N. Y.
Pres. and G. M.—Charles C. Wickwire
Asst. to Pres.—H. L. Edick
Vice Pres. and Gen. Supt.—Arthur F. Stilson
Treas.—Edward Stilson
Sec. and P. A.—Frederic R. Wickwire
Supt. O. H.—Edward C. Butler
Supt. Roll Mill—Arthur Sinclair
Chief Elec. Engr.—Leon J. Witty
Chemist—Edwards Brewster
Safety Engr.—Willard Potter
Foreman Mach.—Frank Corcoran
PRODUCTS—Wire cloth, poultry netting, wire rods, wire nails, miscellaneous brads

WICKWIRE-SPENCER STEEL CORP., 41 E. 42nd St., New York, N. Y. Plants: Buffalo, N. Y., Worcester, Clinton and Spencer, Mass.
Chairman of Board—S. F. Pryor
Pres.—E. C. Bowers
Vice Pres. Sales—G. E. Watson
Vice Pres.—P. M. Macklin
Treas. and Sec.—G. H. Creveling
Asst. Treas.—P. H. Schreiterer
Asst. Sec. and Met.—L. D. Granger
Asst. Sec.—Parker Newhall
Pur. Agt.—F. C. Yeates
Safety—Vernon King
EQUIPMENT—Blast furnace, rolling mills, open hearth
PRODUCTS—Wire and wire products

(At Buffalo, N. Y., Plant)
Gen. Supt.—F. Johnson
Supt. B. F.—W. Nash
Supt. O. H.—K. V. McCausland
Supt. Rolling Mills—A. J. Wheeldon
Chief Engr.—K. H. Marsh
Safety Engr.—A. T. Brown
Met. and Chemist—B. L. McCarthy
Chief Elec.—R. E. Gardner
Storekeeper—J. W. Carroll

(At Palmer, Mass., Works)
Supt.—Carl King
Asst. Supt.—Stanley F. Hunt
M. M.—A. P. Werme

(At Goddard Works, 80 Webster St., Worcester, Mass.)
Supt.—Wm. A. Bennett
Asst. Supt.—C. J. Reidy
M. M.—W. H. Buck

(At Morgan Works, New Bond St., Worcester, Mass.)
Supt.—F. J. Connor
Asst. Supt.—E. F. Early
M. M.—R. J. Macklin

(At Clinton, Mass., Works)
Supt.—F. N. Woodman

(At Spencer, Mass., Works)
Supt.—A. J. Vandall
M. M.—C. F. Fisher

WILKES ROLLING MILL, Sharon, Pa.
Pres.—W. B. Foxall
Vice Pres.—Samuel Wilkes
Treas.-Sec.—B. F. Wilkes
Pur. and Sales Agt.—J. C. Wilkes
Gen. Mgr.—W. B. Wilkes

WILLIAMS & CO., INC., 901-937 Pennsylvania Ave., N. S., Pittsburgh, Pa.
Pres.—H. E. Williams
Sec. and Treas.—Chas. Johnston
Gen. Mgr.—E. C. Edmundson
Sales Mgr. (Monel Metal)—R. B. Nation

WILLIAMSPORT WIRE ROPE CO., Williamsport, Pa.
Pres of Board and Treas.—Joseph W. Cochran
Pres. and Gen. Mgr.—Robert Gilmore
Vice Pres. and Sec.—Edgar Munson
2nd Pres., Asst. Treas. and Asst. Sec.—Logan Cunningham
Vice Pres. Sales—Charles M. Ballard
Pur. Agt. and Sec.—John H. Whittier
Gen. Supt. Wire Mill—Amos Gore
Supt. Roll Mill—J. J. Young
Asst. Supt. Rope Mill—J. Litherland, Sr.
Chief Elec.—Frank Kelly
Chief Machinist—Stanley Eppeheimer
PRODUCT—Wire rope

WITHERBEE-SHERMAN & CO., Port Henry, N. Y.
Pres. and Gen. Mgr.—E. O. Marting
Vice Pres.—G. E. Gregory
Treas.—T. R. Georghegan
Sec.—W. W. Lancaster
Pur. Agt.—F. J. Myers
Asst. Treas. and Asst. Sec.—A. E. Hodgkins
Gen. Supt. Mines—A. M. Cummings
Supt. B. F.—T. F. Kelly
Asst. Supt. B. F.—H. C. Hazlett
Elec. Engr. Mines—B. P. Johnson
M. M.—E. E. Cone
Chief Chemist—H. D. Gehret
Met.—E. J. Loury
Draftsman—Lovell Lawrence

PRODUCTS—1,000,000 tons magnetic ore concentrates and lumpmore, 200,000 tons pig iron annually, all grades

WITHEROW STEEL CO., P. O. Box 1126, Pittsburgh, Pa. Works: Neville Island, near Pittsburgh
Pres.—W. P. Witherow
Vice Pres. Opr.—J. C. Dilworth
Treas. and Asst. Sec.—Wm. G. Watt
Asst. Treas.—E. W. Herron
Sec.—Joseph D. Dilworth
Pur. Agt.—A. K. Williamson
Gen. Supt.—P. L. Coyle
Chief Engr.—T. N. Sloan
Chief Elec. Engr. and Draftsman—A. Janessa
M. M.—J. F. Heininger
Met.—P. C. Power
Chief Chemist—F. Hamilton
Roll Designer—P. C. Smith
Foreman Mach.—Charles Lucas
Storekeeper—John Farrell
PRODUCTS—Continuous die rolled products, such as automobile front and rear axles, automobile ring gear blanks, shift levers, tie rods and various forging
Capital—1,925,000; bonds issued, $750,000
Railroads—P. C. & Y., P. & L. E., Penna.

WOOD IRON & STEEL CO., ALAN, Widener Bldg., Philadelphia, Pa. Furnace: Swedeland, Pa. Works: Conshohocken, Pa.
Pres.—Ledyard Hecksher
Vice Pres., Treas. and Pur. Agt.—Alan D. Wood
Vice Pres. Opr.—H. C. Thomas
Vice Pres., Sales and Asst. Treas.—C. O. Hadley
Sec. and Asst. Treas.—John W. Logan
Asst. Sec.—J. H. Woodhead

(At Conshohocken, Pa., Steel Works)
Gen. Supt. Steel Wks. Dept.—F. E. Lloyd
Chief Engr.—J. F. Kohlmorgan
Met.—A. L. Meyer

(At Conshohocken, Pa., Sheet Dept.)
Mgr.—Vincent P. Wood
Asst. Mgr.—W. A. Ambler
Elec. Supt.—H. A. Lewis
Elec. Foreman—Benjamin Wessell
PRODUCTS—Blue annealed sheets

(At Swedeland, Pa., Furnace)
Supt.—Glen C. Hanna
Asst. Supt. B. F.—Chas. E. Agnew

WOODWARD IRON CO., Woodward, Ala. Plants at Woodward and East Birmingham, Ala.
Chairman—A. H. Woodward
Pres.—Frank H. Crockard
Sec.—Herbert E. Smith
Vice Pres. and Treas.—D. E. Wilson
Asst. Treas.—F. E. Curtis
Pur. Agt.—J. H. Leonard
Gen. Mgr.—J. A. Long
Asst. Gen. Mgr.—W. D. Miller
Chief Engr.—R. E. Brakeman
Elec. Supt.—R. H. Quaas
Supt. B. F.—H. G. Veazey
Supt. By-Prod. Coke—A. H. Moore
Gen. M. M.—E. W. Duncan
M. M.—Harry Jones
Safety Engr.—B. J. Dryer
Chief Draftsman—C. W. Phillips
Chemist—W. Gorman
PRODUCTS—Pig iron, coke and by-products

WORCESTER PRESSED STEEL CO., 100 Barber Ave., Worcester, Mass.
Pres. and Treas.—John W. Higgins
Sec.—Arthur P. Higgins
Pur. Agt.—N. B. Dunbar
Gen. Mgr.—John S. Mowery
Gen. Supt.—William Werme
Plant Engr.—H. C. Hammond
Safety Engr.—H. T. Harrison
Foreman Mach.—D. F. Nystrom
PRODUCTS—Cold rolled steel and metal stampings
Incorporated—$600,000
Railroad—Boston & Maine

WORTH STEEL CO., Claymont, Del.
Pres.—E. H. Worth
Vice Pres. and Treas.—W. A. Worth
Sec.—G. D. Spackman
Gen. Mgr.—E. A. Hagerman
PRODUCTS—Steel plates, flanged and dished heads

WORTHINGTON PUMP & MACHINERY CORP., 115 Broadway, New York, N. Y. Plants: Holyoke, Mass.; Harrison, N. J.; Buffalo, N. Y.; Elmwood Place, Cincinnati, O.
Pres.—L. J. Belnap
Asst. to Pres.—E. E. Yake
Vice Pres.—E. T. Fishwick
Vice Pres.—C. M. Finney
Treas.—W. H. Baumes
Sec.—C. N. Barney
Asst. Treas. and Sec.—Walter Lehman
Pur. Agt.—C. W. Hodges
Gen. Sales Mgr.—C. E. Wilson
Chief Engr.—Wm. Schwanhausser
Asst. Chief Engr.—Paul Diserens
Engr. Marine Dept.—M. L. Katzenstein
Engr.—J. C. Barnaby
Mgr. Air Comp. Dept.—R. D. Brooks
Mgr. Condenser Dept.—C. F. Harwood
Mgr. Erecting Dept.—M. Greenberg
Mgr. Water Works Dept.—Rodney Hall
Traffic Mgr.—W. N. Agnew
PRODUCTS—Pumping machinery, condensers, air and gas compressors, locomotive and stationary feed water heaters, gas and oil engines, Diesel engines, water meters, etc.

(At Deane Works, Holyoke, Mass.)
Pur. Agt. (Local)—Eugene E. Foote
Gen. Mgr.—Charles L. Newcomb
Supt.—Robert E. Newcomb
Asst. Supt.—Thomas W. Ferguson
Chief Engr.—Will M. Fleming
Mech. Engr.—H. M. Chase
Ind. and Safety Insp.—Austin H. Newcomb

(At Snow-Holly Works, Roberts Ave., Buffalo, N. Y.)
Works Mgr.—H. W. Beckley
Supervisor of Mainten. and Field Erection—W. D. Shannon
Asst. Works Mgr.—H. E. Brelsford
Sales Mgr.—W. L. Russell
Production Supt.—Osborn L. Wallden
Asst. Sales Mgr.—J. T. Clancy
Chief Engr.—H. C. Lehn
Asst. Chief Engr.—Otto Nonnenbruch
Supt. Fdry.—Walter Hunsicker
Supt. Pattern Shop—Alexander Reid
PRODUCTS—Horizontal and vertical compound and triple expansion pumping engines, horizontal and vertical Diesel engines and horizontal gas engines, for natural, coke oven and blast furnace operations

(At Laidlaw Works, Elmwood Place, Cincinnati, O.)
Works Mgr.—H. A. Feldbush
Supt. Maint.—Wm. J. Thompson
Asst. to Wks. Mgr.—E. M. Christopher
Supt. Fdry.—Edward Doermann
Supt. Mach. Shop—F. S. Porter
Chief Engr.—Michael Riesner
Engr. Tests—A. V. Saharoff
PRODUCTS—Air compressors and pumping machinery

(At Worthington Works, Harrison, N. J.)
Works Mgr.—Neil C. Lamont
Production Mgr.—N. R. Butler
Supt. Power—C. Hipp
Works Engr.—M. Spillman
Asst. to Works Mgr.—E. J. Schwanhausser
Engr. Condensers—J. F. Grace
Engr.—Centrif. Pump—O. H. Dorer
Engr. Direct Acting Pumps—L. B. Downs
Equipt. Engr.—C. Broshkevich
Chief Draftsman—W. R. Wiley
Supt. Mach. Shop—John Prooslin
Local Pur. Agt.—G. F. Guldner
Met.—R. M. von Hofen
Supt. Labor—F. S. Elkins
Gen. Storekeeper—J. H. Weyhenmeyer
Fdry. Engr.—W. J. Kihn

WRIGHT SHOVEL CO., Ames and Crystal Sts., Anderson, Ind. (Subsidiary of Ames Shovel & Tool Co.
Mgr.—Edwin T. Nipher
Power Plant Engr.—David Niblock
Foremen—J. W. Boerner, W. H. Redd and C. R. Abbott

WRIGHT STEEL & WIRE CO., G. F., Worcester, Mass.
Pres. and G. M.—Geo. F. Wright
Treas. and Clerk—Harry F. Hildreth
Gen. Supt.—Gustav Swanstrom
Mech. Engr.—Albert S. Knapp
PRODUCTS—Wire and woven wire products
Capacity—10,000 tons annually

WYCKOFF DRAWN STEEL CO., 728 Frick Bldg., Pittsburgh, Pa. Works: Ambridge, Pa.
Pres.—A. W. Wyckoff
Vice Pres. Sales—Joseph T. Somers
Vice Pres.—Wm. McConway, Jr.
Treas. and Sec.—D. G. Dodds
Pur. Agt.—H. H. Baltz
Gen. Mgr.—W. C. Undercoffler

(At Ambridge, Pa., Plant)
Gen. Supt.—P. A. Tarter
M. M.—George Farland
Met.—Howard Smith
Draftsman—Leroy Litsey
Asst. Gen. Supt.—J. S. Mahon

WYOMING SHOVEL WORKS, West 8th St., Wyoming, Pa.
Pres.—Nathaniel G. Robertson
Vice Pres. Sales—H. T. Potter
Asst. to Vice Pres.—G. E. Byers
Treas. and Sec.—G. d'A. Belin
Asst. Treas.—C. A. Keller
Pur. Agt.—Jesse W. Lewis
Gen. Supt.—H. H. Foster
Chief Engr.—F. G. Osgood
Met.—A. N. Kraft
EQUIPMENT—One mill, three stands
PRODUCTS—Sheets
Capacity—3,000 tons
Railroads—D. L. & W., Lehigh Valley

Y

YORK METAL & ALLOYS CO., Sherman St. and Penna. R. R., York, Pa.
Pres. and G. M.—Van Rensslaer Lansingh
Treas. and Pur. Agt.—Harry D. Howe
Sec.—Donald H. Yost
Sales Mgr.—Edwin K. Jenckes
Gen. Supt.—R. L. Sessions
M. M.—C. A. Le Fever
Steam Engr. and Storekeeper—William Izer
Met. and Chemist—Oscar R. Smith
EQUIPMENT—Five electric furnaces and chemical plant
PRODUCTS—Ferro tungsten, ferro vanadium, ferro molydenum, tungstic acid, molybdic acid, sodium molybdate, sodium tungstate, calcium tungstate, calcium molybdate and boron reagents for the deoxidation and degasification of ferrous and non ferrous metals
Capacity—Ferro plant, 1,000,000 lbs., chemical plant, 300,000 lbs.
Capital—$350,000; issued, $150,000; bonds issued, $150,000
Railroad—Penna., siding

YOUNGSTOWN SHEET & TUBE CO., Youngstown, O. Plants: Youngstown and Brier Hill, Campbell, and Zanesville, O.; Chicago and Evanston, Ill., and Indiana Harbor, Ind.
Pres.—James A. Campbell
Asst. Pres.—Frank Purnell
Vice Pres.—C. S. Robinson
Vice Pres.—H. G. Dalton, Cleveland, O.
Vice Pres. Opr.—W. C. Reilly
Vice Pres. Opr.—E. T. McCleary
Vice Pres. Sales—W. E. Watson
Vice Pres. Fin. and Acctg.—W. J. Morris

Asst. to Vice Pres.—W. M. Neckerman
Asst. to Vice Pres.—H. G. Heedy
General Counsel—Leroy Manchester
Asst. Gen. Counsel—J. C. Argetsinger
Comptroller—W. N. McDonald
Sec. and Treas.—W. E. Meub
Asst. Sec. & Treas.—Roy M. Welch
Asst. Treas.—C. H. Rose
Auditor—J. H. Steeves
Traffic Mgr.—A. C. Graham
Land and Tax Agt.—A. J. Boehme
Claims Attorney—W. J. Barnum
Consulting Engr.—C. G. Ohlson
Special Engr.—G. E. Mirfield
Chief Engr.—Henrik Ovesen
Elec. Engr.—A. G. Place
Chief Inspector—C. H. Guy
Metl. Engr.—G. A. Reinhardt
Statistician—J. W. Riddle
Pur. Agt.—C. T. Moke
Fire Prevention Director—W. T. Filmer

(Youngstown District)

Dist. Mgr.—F. C. Farrell
Mech. and Elec. Supt.—J. M. Faris
Chief Elec.—R. E. Lewis
Trans. and Labor Supt.—V. W. Delaney
Masonry Supt.—J. W. Wagstaff
Dist. Engr.—H. B. Rose
Steam Engr.—A. L. Wilhoite
Field Engr.—J. A. Miller
Combustion Engr.—F. H. Leahy
Const. Supt.—H. O. Nixon
Met.—A. C. Badger
Inspector—L. W. Fogg
Chief Chemist—D. A. Russell
Chief Surgeon—Dr. S. M. McCurdy
Safety Director—J. M. Woltz
Asst. Safety Director—H. V. Evans
Management Represent.—J. C. Campbell
Employ. Agt.—C. M. Ott
Efficiency Engr.—F. A. Roberts
Chief Schedule Clerk—R. J. Grombacher
Roll Designer—I. W. Gardner
Chief Shipper—B. J. Lewis
Works Accountant—P. M. Haas
Paymaster—H. W. Kerr
Storekeeper—C. L. Lang

(At Brier Hill Works, Youngstown, O.)

Works Supt.—H. L. Brinker
M. M.—J. B. Faulds
By-Product Coke Supt.—E. F. Vogel
Asst. By-Product Coke Supt.—F. D. Schreiber
Blast Furnace Supt.—W. C. Wallis
Open Hearth Supt.—A. E. Agler
Asst. O. H. Supt.—E. Q. Teets
Bloom. and Cont. Mill Supt.—T. J. Fair
Plate Mill Supt.—W. F. Frantz
Sheet Mill Supt.—W. S. King
Asst. Sheet Mill Supt.—H. A. Corley
Asst. Supt. Trans. and Labor—W. F. Stambaugh
Asst. Chief Elec.—L. C. Breetz

(At Western Reserve Works)

Sheet Mill Supt.—J. E. Finnie
Asst. Sheet Mill Supt.—John Higgins

(At Chicago, Ill., Plant)

Dist. Mgr.—W. B. Gillies
Asst. Dist. Mgr.—E. H. Stillman
Dist. Engr.—W. W. Frazier
Elec. Engr.—E. C. Marshall
Steam Engr.—G. T. Hollett
Field Engr.—E. Haak
Met.—A. A. Chambers
Insp.—R. L. Finkenstaedt
Safety Director—H. G. Hensel
Mason Supt.—Hugh Dunlop
Dock Supt.—Peter McArdle
Const. Supt.—C. M. Bradley

(At 94th St. and Kreiter Ave., South Chicago, Ill.)

Supt. B. F.—P. Rule
Asst. Supt. B. F.—Wm. B. Murphy
Chief Elec.—S. A. Kish
M. M.—B. Rasch
M. M. B. F.—F. Wagner
Steam Engr.—N. Jackovich
Chief Chemist—H. Miller
Chief Draftsman—W. W. Frazier
Safety Engr.—H. G. Hensel
Safety Insp.—A. D. Berquist
Foremen B. F.—I. Davis, A. Gadus and A. Tancois
Storekeeper—G. H. May
EQUIPMENT—Two 550-ton blast furnaces, one 400-ton, one 150-ton, one 100-ton, latter for special grades only
PRODUCTS—Pig iron

(At Evanston, Ill., Plant)

Gen. Supt.—A. S. Gasche
Asst. Gen. Supt.—L. R. Canfield
Chief Elec. Engr.—B. F. Simpson
Mech. Engr.—H. E. Larson
M. M.—J. W. Miller
Safety Engr.—H. J. Spoerer
Works Acct.—J. E. Johnson
Storekeeper—J. S. Bergslien

(At Indiana Harbor, Ind.)

Dist. Mgr.—W. B. Gillies, at Chicago, Ill.
Works Supt.—A. R. Finch
Asst. Works Supt.—J. C. Siegle
By-Prod. Coke and Blast Furnace Supt.—L. H. Underwood
By-Product Coke Supt.—E. K. Harris
Blast Furnace Supt.—E. H. Dreyer
Asst. B. F. Supt.—H. J. Draine
Open Hearth Supt.—W. F. Davis
Asst. O. H. Supt.—C. F. Koehler
Bessemer Supt.—P. V. Carney
Bloom. and Cont. Mill Supt.—C. W. Edwards
Skelp Mill Supt.—Geo. E. Ramsey
Asst. Skelp Mill Supt.—L. H. Washburn
Pipe Mill Supt.—E. L. Applegate
Asst. Pipe Mill Supt.—W. Hardwick
Tin Plate Mill Supt.—J. B. Chalmers
Asst. Tin Plate Mill Supt.—M. A. Clark
Supt. Trans. and Labor—H. B. Linderman
Const. Supt.—C. M. Bradley
Mechanical Supt.—W. D. Cleavenger
Chief Elec.—T. C. Carroll
Chemist, Steel Dept.—H. McComb
Chemist, Coke Dept.—T. C. Worthington
Chief Schedule Clerk and Shipper—H. A. Dalby
Works Accountant—Bert Smith
Asst. Elec. Engr.—E. C. Marshall

Chief Draftsman—A. J. Frantz
Roll Designer—Edw. Zielke
Storekeeper—C. G. May

(At Campbell, O., Works)

Works Supt.—A. W. Smith
Blast Furnace Supt. (including Hubbard)—H. S. Braman
Asst. Supt. Blast Furnaces—W. F. Fair
Bessemer and O. H. Supt.—Hugh Jackson
Asst. Bess. and O. H. Supt.—W. M. Sharman
Supt. Blooms and Cont. Mill—J. K. Sutherland
Supt. Skelp and Puddle Mills—Ed. Hildebrandt
Sheet Mill Supt.—C. A. Davis
Asst. Sheet Mill Supt.—C. J. Daley
Tube Mill Supt.—F. C. Dustman
Asst. Tube Mill Supt.—L. J. Hess
Asst. Tube Mill Supt.—T. C. Thomas
Supt. Rod, Wire and Conduit—F. H. Nullmeyer
Asst. Supt. Rod, Wire and Conduit—J. H. Shilling
Supt. Mer. Bar Mill—A. E. Jupp
Asst. Supt. Trans. and Labor—R. N. McCoy
M. M.—J. H. Krehl
Asst. Chief Elec.—C. D. Hazen

(At Zanesville, O., Plant, Cleveland St.)

Gen. Supt.—Wm. J. Wietelmann
Works Supt.—E. E. Hallett
Chief Engr.—H. O. Wilson
Chief Elec.—Wm. Buzza
M. M.—Jessie Coultrap
Steam Engr.—Walter Magee
Safety—R. L. Keyes
Storekeeper—George Seabaugh
Works Acct.—E. F. Grigsby
PRODUCTS—Steel pipe and iron couplings

Z

ZENITH FURNACE CO., West Duluth, Minn.
Pres. and G. M.—W. B. Castle
Vice Pres. and Treas.—C. W. Andrews
Sec.—Oscar Mitchell
Asst. Sec.-Treas. and P. A.—A. E. Bennett
Gen. Supt.—H. A. Brady
Supt. Coke Oven Dept.—H. G. Glenn
Gen. M. M.—A. J. Lee
Chemist—John Dambrowski
EQUIPMENT—Four locomotive cranes, 2 terminal railway standard gauge locomotives, 2 narrow gauge locomotives
PRODUCTS—Pig iron, coke and by-products
Fuel—Gas, coal and coke
Power Plant—Eight boilers, 150 hp.
Blast Furnaces—4 stoves, 1 stack; 350 tons
Railroads—Northern Pacific, Soo Line

ZIMMERMAN STEEL CO., Bettendorf, Ia.
Pres.—J. W. Bettendorf
Treas.-Sec.—H. V. McCluskey
Gen. Mgr.—A. K. Reading
Gen. Supt.—F. W. Zimmerman
PRODUCT—Steel castings

CANADA

A

ALGOMA STEEL CORP., Sault Ste. Marie, Ont.
Pres.—W. C. Franz
Vice Pres. and G. M.—J. D. Jones
Vice Pres. Finance—James W. Gemmell
Treas.—E. W. Shell
Asst. Treas. and Asst. Sec.—Wm. Jeffrey
Sec.—Alex Taylor
Pur. Agt.—S. V. McLeod
Gen. Sales Mgr.—J. D. Gray
Gen. Supt.—W. J. Wilson
Supt. B. F.—J. H. Bell
Asst. Supt. B. F.—James Dale
Supt. O. H. No. 2—J. McDonald
Supt. Rolling Mill—Oswald Davies
Supt. Merchant Mills—C. H. Allen
Supt. Shops—A. E. Stewart
Supt. Steel Fdry—Charles Forsberg
Supt. Transp.—J. J. Burke
Supt. Docks and Track—J. A. McColl
Supt. Greenewalt Plant—V. H. Taylor
Supt. Labor—F. Taylor
Works Engr.—C. H. Speer
Chief Engr.—F. Smallwood
Chief Elec.—J. Donnelly
M. M.—C. Stenbol
Met.—H. B. Greensted
Steam Engr.—John Shiells
Chief Chemist—W. R. Werther
Roll Designer—J. B. Singer
Safety—A. Barr
Storekeeper—E. W. Hitchcock
EQUIPMENT—Coke plant, 4 blast furnaces, 2 open hearth plants, 32 and 35-inch blooming mills, rail mill, 18 and 12-inch mills
Capital—$30,000,000; issued, $25,000,000; bonds issued, $21,663,373.33
Railroads—Can. Pac., A. C. & H. B., D. S. S. & A., and Boats
PRODUCTS—Rails, structural shapes, rail fastenings, merchant steel pig iron, sulphate, coke, tar, alloy steel, etc.

B

BALDWIN CANADIAN STEEL CORP., LTD., Commissioner St., Toronto, Ont.
Pres.—Sir Hugh E. Poynter, Bart.
Sec.—R. S. Smith
M. M.—Thomas Mason
EQUIPMENT—Eight hot mills, 6 pair cold rolls, steel foundry demolished
PRODUCTS—Black sheets, tin plate, galvanized plate
Capacity—Owing to trade conditions has been closed for three years
Capital—100,000 shares no par value
Railroads—Can. Natl., Can. Pacific

BALDWINS MONTREAL, LTD., Montreal, Quebec
Pres.—John C. Newman
Vice Pres.—Archibald M. Russell
PRODUCTS—Galvanized steel sheets

BRYDEN-NEVERSLIP CO., 2155 Pius IX Ave., Montreal, Canada. Main office, New Brunswick, N. J.
Gen. Supt.—John Gilmour

BURLINGTON STEEL CO., Hamilton, Ont.
Pres.—F. P. Wood
Treas. and Pur. Agt.—P. Acheson
Sec.—P. H. Brooks
Man. Director—H. V. Hamilton
Gen. Sales Mgr.—H. J. Stambaugh, Jr.
Gen. Supt.—A. Oram
Asst Supt. Roll Mill—A. D. Baillie
M. M.—W. Lunt
Roll Designer—A. C. Davies
PRODUCTS—Steel reinforcing bars, merchant bars, agricultural and special shapes and steel fence posts
Capacity—50,000 net tons
Capital—$2,000,000
Railroads—C. N. C. P., T. H. & B., M. C.

C

CANADIAN ATLAS STEEL CO., LTD., Welland, Ont. Formerly Atlas Crucible Steel Co., Ltd.
Chariman—A. F. Dohn
Pres. and Gen. Mgr.—D. W. Lathrop
Treas.—A. R. Hubbard
Sec.—Walter Bould
Asst. Sec.—R. A. Gordon
Pur. Agt.—A. R. Hubbard
Asst. Mgr. Sales—F. A. Schulze
Wks. Mgr.—A. D. Johnson
Supt. Roll Mill—L. W. Kirkpatrick
M. M.—D. Maxwell
Steam Engr.—D. Maloney
Roll Designer—Vom Dundas
Chief Draftsman—C. V. Dyson
Blacksmith—S. Tomlinson
EQUIPMENT—30 pot crucible furnaces. 5-stand 10-inch mill, 4 hammers, 600 to 4,000 lbs.
PRODUCTS—High speed steel, tool steel, alloy tool steel, mining drill steel
Capital—$250,000 pfr.; issued, $100,000; $40,000 common; issued, $32,500
Railroads—C. N. and Wabash sidings, T. H. B. and M. C.

CANADIAN BRAKE SHOE & FDRY. CO., LTD., 354 St. James St., Montreal, Quebec. Plant: Sherbrooke, Quebec
Pres.—N. J. Holden
Vice Pres.—A. Allan
Vice Pres.—V. G. R. Vickers
Treas.—G. C. Palmer
Works Mgr.—H. H. Gifford

(At Sherbrooke, Quebec, Plant)

Gen. Foreman—E. Jones
Foreman Steel Fdry.—A. Stewart
Chemist—E. J. Murphy
Foreman Machinist—E. Price
EQUIPMENT—Three 2½-ton electric furnaces
PRODUCTS—Electric and manganese steel castings
Capacity—200 tons per month
Railroad—Siding on property

CANADIAN DRAWN STEEL CO., Gerard St., Hamilton, Ont.
Pres.—H. J. Waddie
Treas.—E. J. Elliott
Sec.—C. R. Brown
Gen. Supt.—W. F. Darch
Asst. Gen. Supt.—J. Taylor
Steam Engr.—Samuel Wells
PRODUCTS—Cold drawn and cold rolled steel
Capacity—7,000 tons per annum
Capital—$246,400
Railroads—C. N., T. H. & B., C. P. sidings along side of mill

CANADIAN ELECTRIC STEEL, LTD., P. O. Box 336, Montreal, Que.
Mgr.—W. N. Crafts

CANADIAN FURNACE CO., LTD., Port Colborne, Ont
Pres.—Frank B. Baird
1st Vice Pres.—C. A. Collins
2nd Vice Pres.—Richard C. Yates
Treas.—Harry Yates
Sec.—Fredcrick C. Slee
Pur. Agt.—C. A. Govier
Gen. Supt.—D. J. Higgon
Gen. M. M.—John Horne
EQUIPMENT—One blast furnace
PRODUCTS—Foundry, malleable and basic pig iron
Capacity—325 tons, 24 hours

CANADIAN NATIONAL RAILWAY CO., 360 McGill St., Montreal, Que.
Pres.—Sir Henry W. Thornton
Asst. to Pres.—Fred V. Hummel
Vice Pres. Opr.—S. J. Hungerford
Vice Pres. Sales—R. Vaughan
Asst. to Vice Pres.—A. J. Hill
Treas.—G. A. Yates
Asst. Treas.—H. G. Foreman
Sec.—R. P. Ormsby
Asst. to Sec.—R. Philips
Pur. Agt.—L. Lavoie
Chief of Motive Power—C. E. Brooks
Chief Car Equipment—G. E. Smart
Mech. Engr.—W. F. Connal
Elec. Engr.—R. G. Gage
Chief Chemist—Robert Job
Gen. Supervisor of Shop Methods—John Roberts

CANADIAN STEEL FOUNDRIES, LTD., Montreal, Quebec. General offices: 307 Craig St., Montreal. Plants: Longue Pointe, Point St. Charles, Montreal, and Welland, Ont.
Pres.—W. W. Butler
Vice Pres.—W. F. Angus
Vice Pres. and Asst. Sec.—W. S. Atwood
Vice Pres.—A. D. Neale
Vice Pres.—L. A. Peto

Treas.—J. B. Brodie
Sec.—A. C Bourne
Asst. Treas.—F. V. Duckworth
Pur. Agt.—D. A. Loucks
Gen. Supt.—W. C. Fletcher
Chief Engr.—O. C. Rehfuss
Gen. M. M.—L. McCoy
Safety Engr.—G. H. Greenfield
Asst. Chief Engr.—W. R. Binney
Met.—C. Pascoe
Foreman Machinist—J. Britton
Storekeeper—H. B. Houghton

(At Longue Pointe, Montreal, Plant)

Works Mgr.—E. J. Campion

(At Pt. St. Charles, Montreal, Quebec)

Works Mgr.—F. Lidstone
EQUIPMENT—Five 25-ton O. H. acid furnaces, one 3-ton electric furnace
Railroads—Can. Natl. Rys., St. Lawrence River and Lachine Canal

(At Welland, Ont., Plant)

Works Mgr.—W. F. Freer
EQUIPMENT—Three 25-ton O. H. furnaces, one 3-ton electric furnace
PRODUCTS—Steel castings and manganese built up track work, rolling mill products, couplers
Capital—$5,00,000; issued, $4,400,000; bonds issued, $3,650,000
Railroads—Mich. Central and Welland Canal

CANADIAN STEEL & WIRE CO., LTD., THE, Lottridge St., Hamilton, Ont.
Pres. and Treas.—R. S. Rider
Vice Pres. and Asst. Treas.—Geo. T. Dunn
Gen. Supt.—J. W. Anderson
PRODUCTS—Woven wire fencing, gates, staples, barbed wire, coiled wire, steel posts, triangle mesh concrete reinforcing

CANADIAN TUBE & STEEL PRODUCTS CO., LTD., 107 Hamilton St., Montreal, Quebec. Plant: Lachine Canal, St. Patrick and Hamilton
Pres. and Gen. Mgr.—James L. Waldie
Vice Pres.—Albert H. Hough
Treas.—P. B. Nash
Sec.—H. Worrall
Pur. Agt.—W. E. Williams

(At Lachine Canal Plant, Montreal, Quebec)

Gen. Supt.—Charles M. Thompson
EQUIPMENT—Butt weld tube mills up to 4-inch, bolt and nut works, rolling mills, wire, wire nails and wood screw works
PRODUCTS—Wrought iron pipe, bolts and nuts, spikes, bars, angles, reinforcing bars, wire, wire nails, rivets, wood screws, washers, etc.
Capacity—50,000 to 60,000 tons annually
Capital—$1,500,000 pfd; $1,600,000 common; bonds issued, $305,000
Railroads—Can. Pac. Siding, Can. Nat., Water via Lachine Canal

CARBON & ALLOY STEELS CO., LTD., 130 Denistoun St., Welland, Ont.
Pres. and Gen. Mgr.—Sydney T. Wiles
Treas. and Sec.—C. V. Bradford
Asst. Treas., Asst. Sec. and Pur. Agt.—A. Morrison
Gen. Supt.—Frank T. Bagnall
Elec. Engr.—R. C. Russ
EQUIPMENT—Two 6-ton Heroult electric furnaces, modern foundry and machine shop
PRODUCTS—Ingots and castings made direct from ore by special process
Capital—$1,500,000; issued, $600,000
Railroads—Dockage Welland Ship Canal; all railroads on continent

D

DOMINION ALLOY STEEL CORP., Sarnia, Ont.
Pres., Treas. and G. M.—William B. Boyd
Sec.—E. J. Jacques
EQUIPMENT—Galvanizing shop complete
PRODUCTS—Galvanized flat and corrugated sheets
Capacity—20,000 tons annually
Capital—$15,000,000
Railroads—Pere Marquette Ry., Canadian National and Lake

DOMINION FOUNDRIES & STEEL, LTD., Depew St., Hamilton, Ont.
Pres.—C. W. Sherman
Vice Pres. and Gen. Mgr.—F. A. Sherman
Vice Pres. Sales—G. H. Gordon
Vice Pres., Treas. and Sec.—A. G. Wright
Pur. Agt.—W. Davies
Gen. Supt.—F. A. Loosley
Supt. O. H.—W. H. Hoffacker
Chief Draftsman—H. Goff
Gen. M. M. and Elec. Engr.—A. I. Aitchison
Met.—B. Rider
Foreman Mach. Shop—J. Mount
Safety—E. N. Brown
Storekeeper—J. Boyd
PRODUCTS—Steel castings, axles, forgings, universal sheared and plow plate

DOMINION IRON & STEEL CO., LTD., National Trust. Co., Ltd., Receiver and Manager, Sidney, Nova Scotia
Comptroller—M. Brocklebank
Sales Mgr.—C. E. Gausden
Asst. Gen. Sales Agt.—R. W. MacKeen
Gen. Pur. Agt.—D. S. Hines
Gen. Mgr.—H. J. Kelley
Gen. Supt.—W. H. Bischoff
Gen. Traffic Mgr.—J. R. McIsaac
Chief Engr.—A. P. Theuerkauf
M. M.—J. H. Fraser
Supt. Mines and Quarries—H. B. Gillis
Supt. Coke Oven—D. W. Nicoll
Supt. B. F.—J. C. Mackley
Supt. O. H.—P. A. McIsaac
Supt. Mills—E. Barrington
Supt. Rod and Bar Mills and Roll Designer—G. A. McKay
Supt. Wire and Nail Mills—H. Hyndman
Supt. Yards—O. P. Stensrud

Chief Elec.—Col. J. A. McDonald
Steam Engr —Mark W. Booth
Chief Chemist—G. A. McPherson
Met.—I. C. Mackie
Chief Draftsman—W. S. Wilson
Safety—J. N. Morgan
Supt. Dept. Ind. Rel.—A. W. McDonald
PRODUCTS—Pig iron, blooms, billets and slabs, tie plates, bars, wire rods; rails, standard and light; wire, plain and galvanized; nails and staples; fencing, coke, tar, sulphate ammonia, benzol, sulphuric, clay and silica brick (for own use)

DROLET LA COMPAGNIE, F. X., 206 Bridge St., Quebec
Pres. and Gen. Mgr.—Gaudiose Drolet
Vice Pres., Met. and Chemist—Emile Drolet
Treas.—Arthur Drolet
Sec.—J. H. Hamel
Draftsman—T. Dorval
Foreman Machinist—A. E. Vocelle
EQUIPMENT—One-ton converter, two cupolas, two oil burning furnces, 400 lbs. capacity
PRODUCTS—Iron, steel, bronze, aluminum, castings, elevators, engines, pumps, etc.
Capital—$199,000
Railroads—C. P. and C. N.

E

ELECTRO METALLURGICAL CO. OF CANADA, LTD., Canada Life Bldg., Toronto, Ont. Plant: Welland, Ont.
Works Mgr.—E. Darte, Welland

H

HULL IRON & STEEL FOUNDRIES, LTD., THE, Hull, Que.
Pres.—A. H. Coplan
Vice Pres. and Sec.—O. Pullan
Pur. Agt.—Fred Palen
Gen. Supt.—A. Baillot
Asst. Supt.—C. Hacker
Foreman Mach. Shop—J. Budge
PRODUCT—Steel castings

HURONIA STEEL CO., LTD., THE, Collingwood, Ont.
EQUIPMENT—Electric furnaces
PRODUCTS—Bars for reinforced concrete, mining steel, stainless steel, electric castings
Capital—50,000 shares no par value

I

IMPERIAL STEEL & WIRE CO., Collingwood, Ont.
Pres. and G. M.—Col. J. A. Currie, M. P.
Vice Pres.—Dr. Donald McKay
Treas., Sec. and Mgr.—George A. Royal
Chief Engr. and Mech. Engr.—J. H. Harrison
PRODUCTS—Wire and wire products
Railroads—Grand Trunk Railway System

INTERNATIONAL HARVESTER CO. OF CAN., Hamilton, Ont. Main office: Chicago, Ill.
Supt.—Roy Gleason
Pur. Agt.—J. W. Dillon
Chief and Mech. Engr.—T. Daly
PRODUCTS—Harvesting machinery

J

JOLIET STEEL LTD., Joliet, Que.
Pres.—L. H Read
Vice Pres.—J. B. Fontaine
Treas.—L. E. E. Jones
Sec.—L. A. Fontaine
Gen. Mgr.—P. H. Desrosiers
Pur. Agt.—E. Richard
Asst. Gen. Supt.—J. Critchley
Chief Engr.—R. Moore
Asst. Chief Engr.—T. G. Beament
Master Mechanic—E. Ferland
Met.—W. Francourt
Chemist—A. Jutras
Machine Shop Supt.—P. S. Dore
Storekeeper—E. Brazeau
EQUIPMENT—One ½-ton electric furnace
PRODUCTS—Steel manganese, steel castings
Capacity—2,000 tons annually
Railroads—C. N. R., C. P. R., Trucks to Montreal

K

KENNEDY & SONS, LTD., THE WILLIAM, Owen Sound, Ont.
Pres.—M. Kennedy, Sr.
1st Vice Pres.—D. J. Kennedy
2nd Vice Pres.—M. Kennedy, Jr.
Treas., Sec. and Mgr. Director—T. D. Kennedy
Pur. Agt.—R. E. Trout
Chief Gen. Acct.—R. Bellamy
Gen. Supt.—James Nicol
Asst. Gen. Supt.—C. A. Eberle
Supt. Steel Fdry.—Neil Kennedy
Chief Chemist—John M. Meekin
Chief Draftsman—J. J. Keon
Foreman Machinist—W. Wooten
PRODUCTS — Steel castings, propeller wheels, water power machinery, iron castings etc.

L

LONDON ROLLING MILL CO., LTD., Philip St., London, Ont.
Pres.—J. F. White
Vice Pres. and Sec.—Chas. H. White
PRODUCTS—Bars, iron and steel

LYSAGHT DOMINION SHEET METAL CORP., LTD., 1322 Burlington St., East Hamilton, Ont.
Pres. and G. M.—A. T. Enlow
Treas.—W. P. Tinsley

Sec.—J. M. Paterson
Gen. Supt.—G. C. Elder
EQUIPMENT—Four galvanizing units for hot galvanizing sheets
PRODUCTS—Galvanized flat and corrugated sheets
Capacity—35,000 tons per annum
Capital and Surplus—$700,000
Railroads—C. N., T. H. & B., Can. Pac.

M

MANITOBA ROLLING MILL CO., 875 Logan Ave., W. Winnipeg, Manitoba. Plant: Selkirk, Man.
Pres.—H. B. Lyall
Vice Pres.—T. R. Deacon
Vice Pres. and Gen. Mgr.—P. J. Smith
Treas.—E. J. Burleigh

(At Selkirk, Manitoba, Plant)
Works Mgr.—Robert Smith
Asst. Sec.—S. Cawson
Gen. Supt.—P. J. Meurer
Chemist—L. Brereton

MANITOBA STEEL FDRY., LTD., Winnipeg. Plant: Selkirk, Man.
Pres.—Thomas Arnold
Vice Pres.—F. J. Manning
Treas. and Sec.—D. R. McLeod

(At Selkirk, Manitoba, Plant)
Gen. Supt.—A. Knight
E. E. and Supt.—N. Bedard
Chemist—J. A. deBondy
Foreman—W. Breckenridge
EQUIPMENT—One 5-ton Moore 'Lectro-Melt furnace
PRODUCTS—Electric steel castings
Capacity—3,600 tons annually
Capital—$300,000; issued, $140,000
Railroads—C. P., W. S. & L. W.

MOSLER SAFE CO., Hamilton, Ont.
EQUIPMENT—One 2-ton Greaves-Etchell electric furnace

N

NOVA SCOTIA STEEL & COAL CO., LTD., New Glasgow, N. S. Plant: Sydney, N. S.
Pres.—Roy M. Wolvin, Montreal, Que.
Vice Pres.—Sir Newton J. Moore, London
Treas. and Sec.—C. S. Cameron, Montreal, Que.
Gen. Supt. and Chief Engr.—I. Moeller
Supt. of Works—H. Cantley
Supt. Fin. Mills—W. S. Fraser
Elec. Engr.—C. B. McRae
M. M.—Fred Armstrong
Met.—I. C. Mackie
Chemist—Fraser Holmes
Draftsman—John Irving
Roll Designer—James McEwan
Storekeeper—James Olding
EQUIPMENT—Two 9-inch, one 18-inch, one 20-inch plate mills; axle hammers, forging presses, etc.
PRODUCTS—Regular mill products in steel manufacture, light rails, angle bar, bolt and nut products, freight and locomotive axles, large shafting, rudder frames, etc.
Capacity—75,000 tons annually
Railroads—Canadian Natl.

(At Sydney, N. S.)
Vice Pres.—J. E. McLurg
Gen. Mgr.—H. J. Kelley
Chief Engr.—A. P. Theuerkauf
Supt. Mines—J. C. Nicholson
Elec. Supt.—C. Robinson
M. M.—J. Mann
Civil Engr.—J. Purvis
Foreman Mach. Shop—John McDonald
Safety Insp.—D. G. McDonald
Storekeeper—J. B. Green

P

PECK ROLLING MILLS, LTD., 63 Mill St., Montreal, Que.
Pres.—J. B. Peck
Vice Pres. and Mng. Director—C. B. Lang
Treas.—G. C. Broadbent
Sec.—L. S. Peck
Gen. Sales Mgr.—A. H. Pepper
Pur. Agt.—F. Buchanan
Gen. Supt.—S. G. Gardham
Chief Engr.—E. Massey
Chief Elec.—R. Binden

PENDER & CO., LTD., JAMES, St. John, N. B.
Pres.—R. M. Wolvin
Vice Pres.—F. P. Starr
Sec.—C. W. Earle
Asst. to Sec.—E. W. Gaines
Sales Mgr.—J. McMurray Reid
Gen. Supt.—W. F. Knoll
Steam Engr.—L. A. Murphy
PRODUCTS—Wire, wire nails, toe calks and bale ties
Railroads—C. N., C. P., E. S. E., Ocean terminals

PORTLAND ROLLING MILLS, LTD., St. John, N. B.
Pres.—R. H. Anderson
Vice Pres.—W. C. Sinclair
Mgr., Gen. Supt. and Pur. Agt.—George W. Day
PRODUCTS—Bar iron, railroad spikes

S

ST. LAWRENCE STEEL & WIRE CO., Gananoque, Ont.
Pres.—J. T. Rogers
Gen. Mgr.—J. R. McMurrich
Gen. Supt.—R. W. Cummings
PRODUCTS—Wire formed specialties, flat steel springs, corset steels, suspenders and garter trimmings

SHAWINNIGAN FOUNDRIES, LTD. Shawinnigan Falls, Quebec
Pres.—R. A. Witherspoon

Vice Pres. Sales—S. J. Mullen
Sec.—A. R. Meldrum
Gen. Mgr.—W. G. Dauncey
PRODUCTS—All grades of iron, brass and bronze castings

STEEL COMPANY OF CANADA, LTD., Hamilton, Ont. Plants: Hamilton Wks., Ontario and Canada Works at Hamilton; Brantford Works, Brantford, Ont.; Swansea Works, Toronto, Ont.; Belleville, Ont.; Upper Gananoque Works, and Lower Gananoque Works, at Gananoque, Ont.; St. Henry, St. Patrick, Notre Dame and Dominion Works, at Montreal, Que.; Western Works, London, Ont.
Chairman—Charles S. Wilcox
Pres.—Ross H. McMaster
Vice Pres.—R. G. Wells
Vice Pres., Steel Wks.—Homer M. Jaquays
Vice Pres.—H. J. Diplock
Vice Pres. and Treas.—H. H. Champ
Sec.—H. S. Alexander
Gen. Sales Mgr.—George Spence
Pur. Agt.—B. C. Ball
Comptroller—W. R. Cuthbert

(Hamilton and Ontario Works, Hamilton, Ont.)
Vice Pres.—R. G. Wells
Supt. B. F.—H. G. Hilton
Asst. Supt. B. F.—R. Grimes
Supt. O. H.—F. B. McKune
Asst. Supt. O. H.—J. Gomph
Supt. Bloom. and Fin. Mill—J. L. Smith
Asst. Supt. Bloom. and Fin. Mill—S. Smith
Chief Elec.—E. S. Jeffries
M. M.—Harry A. Jones
Met.—J. G Morrow
Chief Chemist—H. G. Girvin
Chief Draftsman—Robert Mitchell
Safety Engr.—F. L. Wanzer
Foreman Machinist—J. Laird
Roll Designer—Geo. Evans
EQUIPMENT—Two blast furnaces, 11 open hearth furnaces, 13 manufacturing plants
PRODUCTS—500 products, steel, brass, bronze and lead
Capacity—Pig iron, 290,000 tons; ingots, 300,000 tons
Capital—Pref., $6,496,300; common, $11,500,000; bonds issued, $6,177,406.14
Railroads—All railroads and lake steamers to company's own docks

(At Canada Works, Hamilton, Ont.)
Works Mgr—J. C. Callaghan

(At Brantford Works, Brantford, Ont.)
Works Mgr.—W. C. Chambers

(At Swansea Works, Toronto, Ont.)
Works Mgr—W. A. Rowland
Supt.—W. O. Oliver

(At Upper Gananoque Works, Gananoque, Ont.)
Works Mgr.—A. L. Lott
Supt. Lower Works—W. J. O'Brien
Supt. Upper Works—George Little
Foreman—A. Parkens

(At St. Henry Works, St. Patrick Works, Notre Dame Works, Dominion Works, Montreal, Quebec)
Works Mgr.—H. M. Jaquays
Mech. Engr.—E. L. Kirkpatrick

(At Western Works, London, Ont.)
Works Mgr.—J. C. Smith

U

UNION DRAWN STEEL CO., LTD., Hamilton, Ont.
Chairman—L. R. Davidson
Pres.—E. S. Hoopes
Vice Pres.—Geo. Davidson
Treas., Sec. and G. M.—H. M. Sweeney
Gen. Supt.—H. H. Richardson
Asst. Gen. Supt.—C. Ostler

V

VULCAN IRON WORKS, LTD., THE, Winnipeg, Manitoba
Chairman—E. G. Barrett
Pres.—E. G. Barrett
Vice Pres. Opr. and Gen. Mgr.—L. R. Barrett
Vice Pres. Sales—E. A. Parkin
Treas., Sec. and Pur. Agt.—J. D. MacDonald
Asst. Treas.—F. MacSwain
Asst. Gen. Mgr.—J. S. Monat
Gen. Supt.—J. McEachern
Asst. Gen. Supt. and C. E.—H. Briercliffe
Supt. Elec. Steel Furnaces—J. Thorneycroft
Machine Shop Supt., Storekeeper—W. Thomson
Elec. Engr.—J. S. Cochrane
Chemist—J. Olofson
Draftsman—E. Anderson
EQUIPMENT—One 1½-ton Moore Electomelt furnace; two cupolas, 14-ton each
PRODUCTS—Iron and steel castings, machinery, blacksmith boiler works, structural, ornamental iron, etc.
Capacity—3,000 to 3,500 tons steel castings and 6,000 tons iron castings annually
Capital—$500,000
Railroads—Canadian Natl. and Canadian Pacific

W

WABI IRON WORKS, LTD., THE, Broadwood Ave., New Liskeard, Ont.
Pres.—A. J. Young, 1028 Bank of Hamilton Bldg., Toronto, Ont.
Treas., Sec. and Pur. Agt.—P. Ackroyd
Gen. Mgr.—H. A. McEwen
Gen. Supt.—James Harvey
Supt Brass Furnace and Met.—Geo. Rohn
Chief Engr.—A. Player
Asst. Chief Engr.—E. W. Masterson
Supt. Machine Shop—S. Antrim
Storekeeper—H. Little
EQUIPMENT—Iron foundry, brass and babbitt shop, machine and plate shop, pattern shop

PRODUCTS—Gray and white iron, aluminum, brass, acid resisting bronze castings, general machine work, plate work, mining equipment, pumps, cars and babbits
Capital –$40,000
Railroads—Temiskaming Nav. Co., Nypissing Central, Ville Marie Navigation Co.

WELLAND STEEL CASTINGS CO., LTD., Welland, Ont.
Pres. and Treas.—H. D. Davison
Vice Pres.—E. S. Davison
Sec., Pur. Agt. and G. M.—C. M. Carmichael
Asst. Sec.—J. T. Robertson
Gen. Supt.—G. Malcolm Carmichael
EQUIPMENT—Two ton electric furnaces
PRODUCT—Steel castings
Capacity—4,000 tons
Capital—$100,000; issued, $38,000
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A

ALABAMA BY-PRODUCTS CORPORATION, American Trust Bldg., Birmingham, Ala.
Chairman—Erskine Ramsay
Pres.—M. W. Bush
Vice Pres.—Albert P. Bush
Vice Pres. Sales—H. Hammond
Treas.—H. L. Morrow
Asst. Secs. and Asst. Treas.—H. M. Cowart
Sec.—J. A. Shook
Pur. Agt.—R. N. Magill

(At Tarrant, Ala., Plant)
Supt.—A. C. Overton
Asst. Supt.—A. M. Cook
Mech. Engr.—G. R. Ozley
M. M.—Claude Sizemore
Chief Elec.—J. K. Williamson
Steam Engr. and Safety Insp.—Troy Sizemore
Pur. Agt.—R. N. Magill
Chemist—W. M. Mobley
EQUIPMENT—100 Koppers ovens, 49 Koppers Becker ovens
Capacity—2,400 tons per day

ALGOMA STEEL CORP., Sault Ste. Marie, Ont., Can.
Pres.—W. C. Franz
Vice Pres. and Gen. Mgr.—J. D. Jones
Vice Pres. Finance—James W. Gemmell
Treas.—E. W. Shell
Asst. Treas. and Asst. Sec.—Wm. Jeffrey
Sec.—Alex Taylor
Pur. Agt.—S. V. McLeod
Gen. Sales Mgr.—J. D. Gray
Mgr.—J. D. Jones
Supt.—Wm. Seymour
Asst. Supt.—E. A. Davis
M. M.—A. R. Gillespie
Chief Elec.—M. Carroll
Gen. Foremen—E. Rose and E. O'Sullivan
EQUIPMENT—110 Koppers, 110 Wilputte ovens
Capacity—2,400 tons coke daily

AMERICAN STEEL & WIRE CO., Rockefeller Bldg., Cleveland, O.
Pres.—Wm. P. Palmer
Asst. to Pres.—Wm. Thompson
Vice Pres.—J. S. Keefe, Chicago
Vice Pres. and Gen. Sales Agt.—F. Baackes, Chicago
Sec.—A. F. Allen
Treas.—J. R. Thomas, Chicago

(At Coke Works, Harvard Ave. and N. S. Ry., Cleveland, O.)
Supt.—W. R. Pendry
Asst. Supt.—F. R. Burnette
M. M.—Howard J. Moore
Head Elec.—N. W. Heider
Chemist—S. I. Charlesworth
Foreman Masons—D. D. King
Chief Clerk—C. A. Betts
Gen. Foreman—George S. Baldwin
Safety Insp.—B. F. Strebel
EQUIPMENT—180 Koppers ovens
Capacity—1,080,000 tons of coal per year

ASHLAND BY-PRODUCT COKE CO., (Subsidiary Semet Solvay Co.), Ashland, Ky.
Pres.—P. K. Malin
Vice Pres.—J. H. White
Sec.-Treas.—D. H. Putnam
Asst. Treas.—H. S. Swan
Asst. Sec.—W. D. Bickham
Pur. Agt.—R. O. Heyser
Supt.—C. L. Bransford
Make of Ovens—Semet-Solvay
PRODUCTS—Coke and by-products

B

BATTLE CREEK GAS CO., 26 E. Main St., Battle Creek, Mich.
Pres.—D. H. Frazer
Vice Pres., Pur. Agt. and G. M.—F. W. Seymour
Treas. and Sec.—E. B. Zimmer
Asst. Treas. and Asst. Sec.—David H. Frazer, Jr.
Supt.—O. L. Nordheim
Steam Engr.—D. W. Sawyer
Chemist—H. W. Jackman
EQUIPMENT—11 Koppers cross regenerative ovens

BETHLEHEM STEEL CORP., Bethlehem, Pa.
Chairman—Charles M. Schwab
Pres.—E. G. Grace
Asst. to Pres.—J. M. Larkin
Vice Pres.—H. E. Lewis
Vice Pres.—Joseph J. Tynan
Vice Pres.—C. A. Buck
Vice Pres.—Quincy Bent
Sec.—R. E. McMath
Asst. Sec.—N. Berkeley
Treas.—W. F. Hartmann
Asst. Treas.—W. L. Achenbach
Compt.—F. A. Shick
Asst. Compt.—W. L. Lewis
Mgr. Structl. and Plate Sales—G. H. Blakeley
Mgr. of Ordnance—G. W. Struble
Gen. Sales Agt.—E. S. Knisely
Pur. Agt.—C. R. Holton
Gen. Traffic Mgr.—J. M. Gross

(At Bethlehem, Pa., Northampton Plant)
Supt.—C. S. Underwood

(At Sparrows Point, Md.)
Supt.—R. C. Glazier
EQUIPMENT—360 Koppers ovens
Capacity—2,190,000 tons of coal per year

(At Lackawanna, N. Y., Plant)
Supt.—A. H. Harris, Jr.
Asst. Supt.—J. M. Stryker

M. M.—M. C. Steese
Chief Elec.—Thomas Cavanaugh
Chemist—L. J. Mahar
EQUIPMENT—60 Semet-Solvay, 171 Koppers ovens
Capacity—105,000 tons per month

(At Johnstown, Pa., Cambria Plant)
Supt.—H. M. Crossett
Asst. Supt.—R. Kent, Franklin Works
Asst. Supt.—E. R. Merrill, Rosedale Wks.
M. M.—J. P. Pinder and L. D. Little
EQUIPMENT—Koppers, Cambria and Semet-Solvay ovens

(At Lebanon, Pa.)
Supt.—E. R. Christian

(At Steelton, Pa.)
Supt.—B. W. Winship
Asst. Supt.—Charles W. Thornton
EQUIPMENT—120 Semet-Solvay and 60 Koppers ovens
Capacity—50,000 gross tons

BY-PRODUCTS COKE CORP., 332 South Michigan Ave., Chicago, Ill.
Pres.—C. D. Caldwell
Asst. to Pres.—J. D. Forrest
Vice Pres. and G. M.—D. L. Ward
Vice Pres. Sales—Seymour Wheeler
Treas.—D. S. Boynton
Sec. and Asst. Treas.—C. P. Fitzgerald
Asst. to Sec.—C. L. Cleaver
Pur. Agt.—W. A. Boynton
Asst. Gen. Mgr.—F. B. Thacher

(At Coke Plant, 112th St. and Torrence Ave., Chicago, Ill.)
Mgr.—D. L. Ward
Asst. Gen. Mgr.—F. B. Thacher
Gen. Supt.—Charles L. Waggoner
Mech. Engr.—M. A. Tack
M. M.—O. Simon
Chief Elec.—H. Klopsch
Steam Engr.—Chas. W. Arnold
Pur. Agt.—W. A. Boynton
Foreman Mason—H. Tiffen
Gen. Foreman—G. Elvey
Chemist—R. B. Chamberlain
Safety Insp.—D. Medalie
EQUIPMENT—120 Semet-Solvay and 110 Koppers Becker type ovens
Capacity—4,400 tons

C

CAMDEN COKE CO., Front and Chestnut Sts., Camden, N. J.
Pres.—Thos. N. McCarter, Newark
Asst. to Pres.—Harry C. Stevenson
Vice Pres. Opr.—John A. Clarke, Newark
Treas.—T. W. Van Middlesworth, Newark
Asst. Treas.—F. E. Neis
Asst. Treas.—R. S. Tompkins, Newark
Sec.—C. M. Breder, Newark
Pur. Agt.—Geo. W. Barker, Newark
Gen. Mgr.—Herbert H. Ferris, Newark
Mgr.—C. G. Harwin
Engr. of Const.—James N. Downey, Newark
Supt.—Geo. W. Curtis
Asst. Supt.—C. G. Kelly
Mech. Engr.—W. K. Allebach
M. M.—Charles Reber
Steam Engr.—Wilmer McDowell
Chief Elec.—Harry Herzer
Chemist—E. Foster Coffman
Gen. Foreman—Frank L. Marshall
Safety Insp.—Wm. A. Jamison
EQUIPMENT—37 Koppers ovens
Capacity—9 tons

CARNEGIE STEEL CO., Carnegie Bldg., Pittsburgh, Pa.
Pres.—W. G. Clyde
Assts. to Pres.—Thos. Woods, W. R. Balsinger
Vice Pres. Opr.—I. L. Hughes, A. N. Diehl
Vice Pres. and Sec.—Jas. J. Campbell
Gen. Mgr. of Sales—Chas. L. Wood
Treas.—W. C. McCausland
Asst. Treas.—H. E. Jeffries
Asst. Sec.—James W. Hamilton
Pur. Agt.—Chas. R. Miller, Jr.

CENTRAL ALLOY STEEL CORP., Oberlin Road, Massillon, O.
Chairman—F. J. Griffiths
Pres. and Treas.—C. E. Stuart
Vice Pres. and Gen. Mgr.—B. F. Fairless
Vice Pres. Sales—J. M. Schlendorf
Asst. to Vice Pres. and Gen. Mgr.—D. E. Jenkins
Asst. Treas.—C. H. Freeborn
Sec.—J. P. Moseley
Pur. Agt.—C. A. Ilgenfritz
Supt. Coke Works—John Jacker
Asst. Supt. Coke Works—C. P. Betz
M. M.—J. D. Donovan
Electrician—J. D. Kelvie
By-Product Foreman—C. R. Lohrey
Foreman Masons—John Walsh
Chemist—F. M. Portz
Safety Insp.—J. A. Voss
EQUIPMENT—49 Koppers Becker type ovens
Capacity—240,000 tons

(At Canton, Ohio)
Supt. Coke Works—John Komp
Asst. Supt. Coke Works—P. D. Johnson
Electrician—R. M. Bahney
By-Product Foreman—Thos. Cosgrove
EQUIPMENT—47 Koppers Becker type ovens
Capacity—$220,000 tons

CENTRAL INDIANA GAS CO., Muncie, Ind.
Mgr. and Pur. Agt.—J. H. Maxon
Supt.—E. Olson
Asst. Supt.—George Wilson
Prod. Engr.—P. E. Irvine
M. M.—T. R. McCray
EQUIPMENT—22 Kloene type ovens
Capacity—5 tons

CHICAGO BY-PRODUCT COKE CO., 3500 S. Crawford Ave., Chicago, Ill.
Pres.—H. B. Rust
Vice Pres.—T. G. Janney
Mgr.—K. G. Richards

Supt.—G. J. Durfey
Asst. Supt.—C. R. Locke
Master Mechanic—A. Steel
Chief Elec.—B. L. Crowell
Steam Engr.—D. M. Reed
Pur. Agt.—E. L. Pattison
Chemist—J. M. Gonder
General Foremen—I. B. Warner, W. L. Roeder, E. S. Pettyjohn, N. W. Antrim
Supt. Gas Dept.—H. B. Young
Safety Insp.—C. R. White
EQUIPMENT—100 Koppers ovens, five Becker ovens
Capacity—2,300 tons daily

CITIZENS GAS CO., Majestic Bldg., Indianapolis, Ind.
Pres.—John R. Welch
Vice Pres. and G. M.—C. L. Kirk
Treas.—G. A. Efroymson
Asst. Treas.—V. V. Smith
Sec.—F. G. Rastenburg
Pur. Agt.—C. C. Cray
Supt. Prospect Plant—M. B. Hile
Supt. Langsdale Plant—F. R. Buskirk
Asst. Supt. Prospect Plant—W. M. Jolly
Asst. Supt. Langsdale Plant—D. N. Swartz
Supt. Opr.—P. E. Crosier
Master Mechanic Prospect Plant—Edward McKinnon
Master Mechanic Langsdale Plant—Lee Scott
Chief Elec. Prospect Plant—O. B. Whisenand
Chief Elec. Langsdale Plant—Charles Boling
Steam Engr.—Herschell Lyke
Chemist Prospect Plant—Elmer Lumley
Chemist Langsdale Plant—Donald Hills
EQUIPMENT—121 Wilputte and Solvay ovens
Capacity—1,500 tons coal daily

COAL PRODUCTS MFG. CO., Joliet, Ill.
Pres.—I. C. Copley
Vice Pres.—B. P. Alschuler
Treas.—A. E. Fitkin
Sec.—S. K. Jones
Pur. Agt.—S. J. Ricker
Gen. Mgr.—W. M. Willett
Gen. Supt.—M. M. Milton
Supt.—W. J. Murdock
Asst. Supt.—K. A. MacOwen
Chemist—W. R. Biglow
EQUIPMENT—53 by-product ovens, five 11-foot water gas sets
Capacity—600 tons of coke per day

COLORADO FUEL & IRON CO., THE, Boston Bldg., Denver, Colo.
Pres.—J. F. Welborn
Vice Pres. Sales, Pur. and Traffic—J. B. Marks
Vice Pres.—E. H. Weitzel
Vice Pres. and Treas.—S. G. Pierson
Asst. to Vice Pres.—C. H. Murphy
Sec.—Wendell Stephens
Asst. Treas.—P. A. Wieting
Asst. Sec.—L. E. Rogers
Pur. Agt.—Gerald Alley
Production Mgr.—W. A. Maxwell, Jr.

(At Pueblo, Colo.)
Supt.—J. D. Price
Asst. Supt.—T. O. Wetshafer
Chief Chemist—James M. Scharf
EQUIPMENT—120 Koppers ovens
Capacity—720 tons

COLUMBIA STEEL CORP., 215 Market St., San Francisco, Cal.
Pres.—Wigginton E. Creed
Vice Pres. and G. M.—D. H. Botchford
Vice Pres.—Joseph Sloss
Vice Pres. Sales—John D. Fenstermacher
Treas.—E. V. Wilmar
Asst. Treas.—C. T. Redmond
Sec.—Louis Sloss, Jr.
Pur. Agt.—L. E. Jones
Supt.—C. T. Keigley
M. M.—I. Palmer
Chief Elec.—F. H. Rooney
Pur. Agt.—J. K. Rains, Clift Bldg., Salt Lake City, Utah
Gen. Foreman—H. B. Makin
Safety Insp.—A. W. Christensen
EQUIPMENT—33 Koppers, Becker type ovens
Capacity—15 tons

CONSUMERS POWER CO., Jackson, Mich. Gas plant at Saginaw River, Zilwaukee, Mich.
Pres.—B. C. Cobb, New York City
Vice Pres.—W. H. Barthold, New York City
Vice Pres.—C. M. Tippy
Treas.—C. E. Rowe
Sec.—R. Davey
Pur. Agt.—C. L. Rice
Mgr.—C. W. Tippy
Supt.—L. B. Rogers
Asst. Supt.—W. J. Fricker
Safety Insp.—H. J. Burton
Engr.—J. A. Brown
Chemist—C. D. Basla
EQUIPMENT—19 Koppers ovens
Capacity—5.4 tons

(At Zilwaukee, Mich., Saginaw River Plant)
Supt.—L. B. Rogers
Asst. Supt.—Wm. J. Fricker
Master Mechanic—Chas. Boden
EQUIPMENT—19 Koppers ovens. Becker type
Capacity—200 tons

CORRIGAN, McKINNEY STEEL CO., 3100 East 45th St., Cleveland, O.
Pres.—J. W. Corrigan
Vice Pres. and G. M.—H. T. Harrison
Vice Pres. Sales—J. S. McKesson
Tres.—J. E. Ferris
Sec.—John H. Watson, Jr.
Pur. Agt.—John Fielding, Jr.

(Coke Plant)
Supt.—M. D. Wald
Asst. Supts.—O. F. Schramm, E. J. St. Clair
Mech. Engr.—J. Y. Blackwood
M. M.—S. H. Agnew
Chief Elec.—I. N. Tull

Chemist—Clarence Hirtz
Safety Director—Dr. R. C. Engel
EQUIPMENT—204 Koppers ovens
Capacity—12¼ tons

D

DOMESTIC COKE CORP., Drawer 1181, Fairmont, W. Va.
Gen. Mgr.—Chas. V. Critchfield
Supt.—Q. C. Gericke
M. M.—J. J. Knight
Chief Elec.—R. Gross
Pur. Agt.—J. H. Graham
Chemist—J. G. Sweeney
General Foreman—R. Robinson, K. A. Layman, H. O. Frisch
EQUIPMENT—60 Koppers ovens
Capacity—11.1 tons

DOMINION IRON & STEEL CO., LTD., Sidney, N. S., Can. (National Trust Co., Receiver)
Mgr.—Harry J. Kelley
Supt.—D. W. Nicoll
Asst. Supt.—Wm. Bown
Mech. Engr.—J. H. Fraser
M. M.—George Mackley
Chief Elec.—J. A. McDonald
Steam Engr.—W. B. Parkinson
Pur. Agt.—D. S. Hines
Chemist—G. A. McPherson
Gen. Foremen—Toby English and Martin Moore
Safety Insp.—J. N. Worgan
EQUIPMENT—180 Koppers ovens
Capacity—1,900 tons daily

DONNER-HANNA COKE CORP., Buffalo, N. Y.
Pres.—W. H. Donner
Vice Pres. and Gen. Mgr.—H. P. Zeller
Vice Pres.—C. A. Collins
Treas.—H. T. McDougal
Sec.—W. W. Hancock
Pur. Agt.—S. A. Smith
Supt.—Philip S. Savage
Asst. Supt.—H. S. Owens
M. M. and Chief Elec.—J. W. Lockie
Chemist—Howard Gress
Foremen—P. O. Walbridge, W. L. Goff, S. L. McCartney, P. M. Smith, W. S. Leach and R. M. Lotz
Safety Insp.—F. W. Hochgrebe
EQUIPMENT—150 Koppers regenerative coke ovens and by-product plant
Capacity—1,000,000 tons of coal per year

E

EMPIRE GAS & ELECTRIC CO., 103 Castle St., Geneva, N. Y.
Chairman—E. H. Palmer
Pres.—E. L. Phillips, New York
Vice Pres. and G. M.—H. O. Palmer
Treas.—R. F. VanDoorn, New York
Asst. Treas.—C. H. Pearce
Sec.—H. R. Frost, New York
Asst. to Sec.—Morris Tracey
Pur. Agt.—O. A. Wood
Sales Mgr. Coke Dept.—C. E. Rapales
Supt. and Foreman—J. F. O'Malley
Asst. Supt.—Thos. McGrath
Mech. Engr. and M. M.—E. C. Clark
Chief Elec.—F. C. O'Brien
Foreman Masons—H. D. Krall
Chemist—E. A. Marshall
Safety Insp.—E. R. Dobbin
EQUIPMENT—40 Semet-Solvay ovens
Capacity—8 and 10 tons

F

FORD MOTOR CO., Highland Park, Detroit, Mich.
Pres. and Treas.—Edsel B. Ford
1st Vice Pres.—P. F. Martin
2nd Vice Pres.—E. C. Kanzler
Sec.—B. J. Craig
Pur. Agt.—F. H. Diehl

(At Fordson Plant, P. O., Dearborn, Mich.)
Supt.—D. L. Newkirk
Chief Chemist—R. H. McCarroll

FRICK COKE CO., H. C., Carnegie Bldg., Pittsburgh, Pa. Operating department at Scottdale, Pa.
Pres.—Thomas Moses
Treas.—Philip Keller
Sec.—William Gates
Pur. Agt.—T. S. Duncan

(At Office of Operating Plants, Scottdale, Pa.)
Gen. Supt.—Clay P. Lynch
Asst. Gen. Supt.—W. C. Hood
Chief Engr.—T. W. Dawson
Mech. Engr.—G. E. Huttle
Asst. Mech. Engr.—W. E. Housman
Elec. Engr.—G. E. Gramm
M. M.—C. A. Brown
Chemist—W. R. Sayre

G

GULF STATES STEEL CO., Brown Marx Bldg., Birmingham, Ala.
Chairman—James Bowron
Pres.—C. A. Moffett
1st Vice Pres.—H. Sanborn Smith
Vice Pres. and Treas.—A. R. Forsyth
Asst. Treas.—C. V. Orr
Sec.—P. R. Owens
Asst. Gen. Mgr.—F. R. Thompson
Pur. Agt.—B. F. Tyler
Vice Pres and Gen Mgr.—L. E. Geohegan
Gen. Sales Agt.—Carl C. Brown
Traffic Mgr.—H. H. Knight
Safety Engr.—T. L. Ball
EQUIPMENT—37 Koppers ovens
Capital—$15,500,000; issued, $14,500,000

H

HAMILTON BY-PRODUCT COKE OVENS, 15 Main St., E. Hamilton, Ont.
Pres., P. A., Gen. Mgr.—P. V. Byrnes
Asst. to Pres.—John T. Byrnes

Vice Pres.—F. A. Brerillier
Asst. to Vice Pres.—Max Brerillier
Treas.—F. A. Brerillier
Asst. Treas.—D. C. Miller
Sec.—L. A. Gray
Asst. to Sec.—J. F. Richter
Supt.—Joe Stephenson
Mech. Engr.—Geo. Croupe
M. M.—John Campbell
Chief Elec.—Joe Campbell
Steam Engr.—A. McKenzie
Foreman Masons—Mr. Whitehouse
Chemist—Edward Burroughs
Gen. Foreman—J. R. Byrnes
Safety Insp.—W. P. Fye
EQUIPMENT—25 Solvay ovens; 35 Wilputte ovens
Capacity—1,000 to 1,200 tons per day (24 hours)

HUDSON VALLEY COKE & PRODUCTS CORP., Troy, N. Y.
Chairman—James A. Burden
Pres.—Henry Oliver
Vice Pres. Opr.—Warren S. Blauvelt
Asst to Vice Pres.—Harlen M. Chapman
Treas.—C. W. Cook
Asst. Sec. and Asst. Treas.—H. D. Bernhard
Sec.—C. W. Cook
Pur. Agt.—F. M. Guerin
Mgr. B. F.—S. O. Hobart
Supt. Coke Plant—George E. Davis
Asst. Supt. C. P.—J. E. C. Stroud
Mech. Engr.—J. M. Williscroft
M. M.—R. Bentley
Chief Elec.—P. L. Giering
Chemist—R. D. Williams
Gen. Foreman Gas Dept.—F. C. Hill
Safety Insp.—J. L. Warner
EQUIPMENT—55 Foundation Co. ovens
Capacity—1,000 tons daily

I

ILLINOIS STEEL CO., 206 S. LaSalle St., Chicago, Ill.
Pres.—E. J. Buffington
Asst. to Pres.—Geo. Campbell
Vice Pres.—T. W. Robinson
Vice Pres.—G. G. Thorp
Vice Pres. and Gen. Mgr. Sales—Edwin S. Mills
Treas.—A. W. Carlisle
Sec.—E. B. Harkness
Pur. Agt.—C. H. Rhodes
Mgr. Safety and Relief Depts.—G. A. Davis
Inspection Engr.—John Brunner
Traffic Mgr.—F. T. Bentley
Auditor—H. Morrison
Credit Mgr.—N. E. Crull

(At Gary, Ind., Plant)
Supt.—L. F. Burress
Asst. Supt.—G. H. Recktenwall
EQUIPMENT—838 Koppers ovens
Capacity—6,000,000 tons of coal per year

(At Joliet, Ill.)
Supt.—George P. Wardley
Asst. Supt.—Herbert H. Jones
Asst. Supt.—Frank Callahan
Mech. Foreman—James M. Crabb
EQUIPMENT—280 Koppers ovens
Capacity—1,500,000 tons of coal per year

INDIANA CONSUMERS GAS & BY-PRODUCTS CO., Terre Haute, Ind.
Pres.—Alfred M. Ogle
Treas.—Leon Stern
Sec.—M. E. Bradley
Pur. Agt.—J. B. Tygart
Supt.—Thos. L. Kemp
Asst. Supt. and Safety Insp.—H. L. Comin
M. M.—H. E. Potter
Chief Elec.—John Nolan
Steam Engr.—Geo. Fields
Gen. Foreman—Darrel Davy
EQUIPMENT—60 Koppers ovens
Capacity—12.5 tons

INLAND STEEL CO., 38 S. Dearborn St., Chicago, Ill.
Chairman Board of Direct.—L. E. Block
Pres.—P. D. Block
Asst. to Pres.—D. P. Thompson
1st Vice Pres.—E. M. Adams
Vice Pres.—E. J. Block
Vice Pres.—W. C. Carroll
Vice Pres.—John W. Lees
Vice Pres.—C. R. Robinson
Treas. and Sec.—W. D. Truesdale
Asst. Sec.—T. J. Sullivan
Asst. Treas.—J. H. Morris
Pur. Agt.—J. E. Stafford

(At Indiana Harbor, Ind.)
Gen. Supt.—J. H. Walsh
Supt.—H. R. deHoll
Asst. Supt.—E. J. Gardner
Mech. Engr.—F. V. Carroll
M. M.—B. S. Burrell
Chief Elec.—R. L. McIntosh
Steam Engr.—C. J. Smith
Pur. Agt.—J. E. Stafford
Foreman Masons—Robert Smith
Chief Chemist—J. C. Dickson
Gen. Oven Foreman—P. Donahue
Foreman Benzol and By-Prod. Dept.—R. J. Ball
Safety Insp.—H. M. Croghan
EQUIPMENT—204 Koppers cross regenerative ovens
Capacity—13½ tons

INTERNATIONAL HARVESTER CO., 606 S. Michigan Ave., Chicago, Ill.
Chairman—Harold F. McCormick
Pres.—Alex. Legge
1st Vice Pres.—H. F. Perkins
Vice Pres.—A. E. McKinstry
Vice Pres.—H. B. Utley
Vice Pres. and Treas.—G. A. Ranney
Vice Pres.—Cyrus McCormick, Jr.
Mgr. of Mfg.—John G. Woods
Gen. Counsel—Wm. S. Elliott
Sec.—Wm. M. Gale
Mgr. Ind. Relations—Geo. J. Kelday

(At Wisconsin Steel Works, So. Chicago, Ill.)
Supt.—L. B. Robertson
EQUIPMENT—88 Wilputte ovens

IRONTON BY-PRODUCT CO., Ironton, O.

J

JONES & LAUGHLIN STEEL CORP., 311 Ross St., Pittsburgh, Pa.
Chairman—B. F. Jones
Pres.—Chas. A. Fisher
Vice Pres.—Willis L. King
Vice Pres.—G. M. Laughlin, Jr.
Vice Pres.—W. C. Moreland
Vice Pres.—S. E. Hackett
Vice Pres.—T. M. Girdler
Sec.—B. F. Jones, III
Treas.—J. C. Watson
Comptroller—W. J. Creighton
Chief Engr.—D. C. McKeel
Supt.—Bob Cantler
M. M.—V. H. Matson
Mech. Engr.—C. W. Simmons
Elec. Engr.—J. F. Pridmore
Steam Engr.—John Witherspoon
Chemist—F. W. Wagner
Safety Insp.—W. J. Hart
Supt. Labor—Hugh Smith
EQUIPMENT—300 Koppers ovens, 60 Wilputte ovens
Capacity—2,000,000 tons of coal per year

(At Woodlawn, Pa.)

Supt.—R. H. Schaller
Supt.—L. A. Smith
Chief Engr.—Carl W. Littler
EQUIPMENT—122 Decker-tvpe ovens, erecting Koppers type, combination coke and gas battery with 1,900 tons of coke daily capacity

K

KOPPERS CONSTRUCTION CO., THE, Union Trust Bldg., Pittsburgh, Pa.
Chairman—H. B. Rust
Pres.—W. F. Rust
Vice Pres.—C. J. Ramsburg
Vice Pres.—Joseph Becker
Vice Pres.—Harold Doolittle
Vice Pres.—Halfdon Lee
Vice Pres.—J. I. Thompson
Treas.—S. T. Brown
Sec.—John S. Brookes, Jr.
Pur. Agt.—W. L. Williams, Jr.
Supt. Opr.—Joseph Van Acheren
Chief Engr.—R. D. Platt
Asst. Chief Engr.—A. J. Myers
Consulting Engr.—Joseph Becker
Elec. Engr.—R. V. Zahner
Director of Research—F. W. Sperr, Jr.
Chief Chemist—O. O. Malleis
Chief Draftsman—W. L. Gable

L

LACLEDE GAS LIGHT CO., THE, 1017 Olive St., St. Louis, Mo.
Pres.—Geo. B. Evans
Vice Pres. and Sec.—W. H. Whitton
Treas.—W. L. Dodd
Asst. Treas.—C. H. Stewart
Asst. Sec.—Alfred Hirsh, J. A. Blakey
Pur. Agt.—G. H. Curry
Chief Engr.—H. C. Wehnert
Supt. of Gas Mfg.—J. E. Pipkin
Steam and Gas Engr.—E. W. Blind
Chemist—Dyke Wilson
Safety Insp.—C. H. Stewart
EQUIPMENT—56 Koppers ovens, 8 Piette
Capacity—13¼ tons

LYNN GAS & ELECTRIC CO., 90 Exchange, Lynn, Mass.
Pres.—Micajah P. Clough
Treas.—Eugene B. Fraser
Asst. Treas.—Philip F. Moody
Gen. Mgr.—Charles R. Prichard
EQUIPMENT—11 Koppers ovens
Capacity—6¾ tons

M

MICHIGAN ALKALI CO., Wyandotte, Mich.
Pres.—J. B. Ford
Treas.—E. L. Ford
Sec.—Ford Ballantyne
Mgr.—W. T. Orr
Supt.—W. A. Marsh
Asst. Supt.—T. J. Smith
Mech. and Steam Engr.—W. W. England
Chief Elec.—Guy Orcutt
Pur. Agt.—A. D. Harris
Foreman Masons—Wm. Yopps
Chemist—H. R. Browne
EQUIPMENT—54 Otto Hoffman ovens
Capacity—9 tons

MILWAUKEE COKE & GAS CO., THE, 187 Greenfield Ave., Milwaukee, Wis.
Pres.—H. B. Rust, Pittsburgh, Pa.
1st Vice Pres.—W. F. Rust, Pittsburgh, Pa.
2nd Vice Pres.—T. G. Janney
3rd Vice Pres.—W. C. Liebner
Vice Pres. Opr.—G. W. Mackie
Treas.—S. T. Brown, Pittsburgh, Pa.
Asst. Treas.—F. M. Dapper
Sec.—J. St. C. Brookes, Jr., Pittsburgh, Pa.
Asst. Sec.—John D. Shaner, Pittsburgh, Pa.
Pur. Agt.—A. G. Bruens
Supt.—E. F. Burdick
Asst. Supt.—O. J. Pritchard
Mech. Engr.—J. E. Kullmann
M. M.—H. G. Kettner
Chief Elec.—Harry Gray
Steam Engr.—Dan Gray
Chemist—G. H. Selke
Gen. Foreman—A. Lorig
Safety Insp.—Frank Nuss
EQUIPMENT—100 Koppers regenerative ovens, 80 Semet-Solvay
Capacity—800,000 tons annually

MINNESOTA BY-PRODUCTS COKE CO., St. Paul, Minn.
Vice Pres.—E. L. Smith
Supt.—C. S. Abbott
M. M. and Steam Engr.—J. W. McBride
Chief Elec.—G. A. Sharland
Pur. Agt.—L. E. Jensen

Chemist—M. L. Wigen
Asst. Supt.—W. D. Levie
Safety Insp.—S. N. Thorpe
EQUIPMENT—65 Koppers combination coke and gas ovens
Capacity—12½ tons

N

NATIONAL TUBE CO., Frick Bldg., Pittsburgh, Pa.
Pres.—Taylor Allderdice
Asst. to Pres.—Thomas Ewing
Vice Pres.—John H. Nicholson
Vice Pres.—P. C. Patterson
Asst. Vice Pres.—G. P. McNiff
Asst. to Vice Pres.—S. M. Lynch
Asst. to Vice Pres.—Thos. D. Davies
Asst. to Vice Pres.—Wm. M. Hogg
Treas.—H. J. Hirshman
Asst. Treas.—John W. McKee
Asst. Treas.—J. F. Cochran
Sec. and Auditor—B. C. Moise
Asst. Sec. and Asst. Auditor—H. C. Cushwa
Cashier—M. S. Cox
Gen. Mgr. Sales—J. J. Kennedy
Asst. Gen. Mgr. Sales—D. H. Ramsbotton
Pur. Agt.—G. G. Goe
Traffic Mgr.—J. M. Morris
Special Agt.—John Fritz
Claim Agt.—Geo. N. Riley
Chief Order Dept.—John A. Caughey
Adv. Mgr.—W. L. Schaeffer

(At Lorain, O.)

Supt.—Leman E. Doty
Supt.—Earl W. Brown
Supt. Brick Constr.—John J. Jelley
EQUIPMENT—208 Koppers ovens
Capacity—1,200,000 tons of coal per year

NEW ENGLAND FUEL & TRANSPORTATION CO., Everett, Mass. Plant: 250 Stuart St., Boston, Mass.
Pres.—William E. McKay
Asst to Pres.—R. P. Tibolt
Vice Pres. Opr.—R. M. Folsom
Treas.—C. A. Alden
Asst. Treas.—R. W. Stewart
Sec.—Henry S. Lyons
Asst. Sec.—A. S. Bull
Pur. Agt.—J. A. Roche
EQUIPMENT—400 Otto-Hoffman ovens, 55 Wilputte ovens
Capacity—3,300 tons of coal per day

NORTH SHORE GAS CO., Waukegan, Ill.
Pres.—E. L. Millard, Chicago
Vice Pres. and Const. Engr. Opr.—William A. Baehr, Chicago
Treas. and P. A.—A. C. Winters, Chicago
Sec.—D. S. Boynton, Chicago
Gen. Mgr.—Julian G. Hart, Waukegan
EQUIPMENT—13 Semet-Solvay ovens
Capacity—9 tons

NORTHERN INDIANA PUBLIC SERVICE CO., E. Wayne St., Ft. Wayne, Ind.
Mgr.—S. E. Mulholland
Supt.—T. J. Kelly
Asst. Supt.—J. Bosowitz
Plant Supt.—L. C. Heavner
M. M.—H. O. Inesorge
Pur. Agt.—H. H. Adams
Safety Insps.—C. E. McBride, C. W. Bennett
EQUIPMENT—19 Koppers Becker-type ovens
Capacity—250 tons of coal per day

O

OTIS STEEL CO., 3341 Jennings Road, Cleveland, O.
Chairman—W. G. Mather
Pres.—E. J. Kulas
Vice Pres. Opr.—R. H. Clarke
Vice Pres.—J. G. Carruthers
Treas.—G. A. Paine
Asst. Treas.—J. W. Carpenter
Sec.—F. C. Oviatt
Pur. Agt.—L. C. Parrott
Supt.—Samuel Pennock
Chief Elec.—J. F. O'Mailia
Chemist—E. T. Saxer
EQUIPMENT—100 Semet-Solvay ovens
Capacity—1,500 tons

P

PERRY IRON CO., 2000 Union Trust Bldg., Cleveland, O.
Pres.—H. G. Dalton
Vice Pres. Opr.—H. S. Pickands
Treas.—S. E. Bool
Sec.—J. B. Putnam
Pur. Agt.—N. B. Prentice
Supt.—T. D. Evans
EQUIPMENT—37 Wilputte ovens

PHILADELPHIA SUBURBAN- COUNTIES GAS & ELECTRIC CO., 6th and Welsh Sts., Chester, Pa.
Mgr.—J. D. Shattuck
Asst. Mgr.—W. G. Sterrett
Supt.—R. G. Porter
Asst. Supt.—R. E. Jones
Chemist—G. A. Simmons
EQUIPMENT — 25 Roberts - Morrissey ovens
Capacity—10½ tons each

PORTSMOUTH BY-PRODUCT COKE CO., THE, Portsmouth, O.
Pres.—J. H. Frantz, Columbus, O.
Treas.—J. L. Watkins
Sec.—C. W. Barton
Mgr.—L. D. Huestis
Supt.—H. E. Cook
M. M.—C. C. Wade
Chief Elec.—H. E. Frizzell
Steam Engr.—H. E. Baughman
Pur. Agt.—N. T. Clare
Foreman Masons—W. F. Kelly
Chemist—F. Frank Blood
Gen. Foreman—D. A. Green
Safety Insp.—H. S. Balmert
EQUIPMENT—108 Semet-Solvay ovens
Capacity—1,700 tons daily of coke

PROVIDENCE GAS CO., 100 Weybosset St., Providence, R. I.
Pres.—C. H. Manchester
Vice Pres. and Engr.—F. C. Freeman
Treas. and Secc.—A. F. Short
Asst. Treas.—A. W. Bourne
Supt.—R. L. Fletcher
Asst. Supt.—L. E. Knowlton
M. M.—F. T. MacDonald
Steam Engr.—Frank Pryor
Pur. Agt.—Arnot D. Hirst
Chemist—A. H. Meyer
Electrician—Harold Brown
Gen. Foreman—Harry A. Brown
EQUIPMENT—40 Koppers ovens
Capacity—11.4 tons

R

RAINEY-WOOD COKE CO., INC., 52 Vanderbilt Ave., New York, N. Y.
Plant: Swedeland, Pa.
Pres.—Ledyard Heckscher
Vice Pres. and Treas.—Scott Stewart
Chief Engr.—F. E. Hamilton
Pur. Agt.—D. G. Foster

(At Swedeland, Pa., Plant)
Works Mgr.—R. W. Heffner
Asst. Mgr.—I. F. Wolfgran
Plant Engr.—J. A. Rolton
M. M.—Iver Gustafson
Steam Engr.—J. A. McGuire
Chemist—Wm. Tiddy
Safety Insp.—C. E. Detwiler
PRODUCTS — Coke, ammonia, sulphate benzol, coal tar, gas
Capacity—730,000 tons coal, 547,500 tons coke

REPUBLIC IRON & STEEL CO., Republic Bldg., Youngstown, O.
Chairman—John A. Topping
Pres.—Thomas J. Bray
1st Vice Pres.—H. L. Rownd
2nd Vice Pres.—J. W. Deetrick
Mgr. Sales—W. B. Topping
Sec.—Richard Jones, Jr.
Treas.—Herman M. Hurd
Pur. Agt.—S. H. Hedges
Traffic Mgr.—E. F. Kidd

(At Youngstown, O., Plant)
Supt.—R. B. Marshall
M. M.—W. R. Rolke
EQUIPMENT—204 Koppers ovens, 43 Koppers-Becker combination type, 61 Becker-type
Capacity—1,538,300 tons coal per year

(At Birmingham, Ala.)
Supt.—William E. Curran

S

ST. LOUIS GAS & COKE CORP., 208 S. LaSalle St., Chicago, Ill.
Pres.—W. G. Maguire
Vice Pres. and G. M.—M. D. Curran
Sec.—Peter B. Nelson
Pur. Agt.—C. A. Wieselthier
Compt.—A. J. Mann
Pur. Agt. Raw Matls.—F. R. Johnson
Supt.—Geo. F. Vosburg
M. M.—J. Thompson
Chief Elec.—Geo. Thatcher
Chemist—C. W. C. Page

SEABOARD BY-PRODUCTS COKE CO., Jersey City, N. J.
Mgr.—W. R. Morris
Supt.—F. D. Lohr
Asst. Supt.—E. W. Zimmerman
Mech. Engr.—L. K. Sparrow
M. M.—E. H. Cusick
Chief Elec.—W. Wolverton
Steam Engr.—A. J. Whittaker
Pur. Agt.—A. B. LeMassena
Chemist—A. A. Kohr
EQUIPMENT—165 Koppers ovens

SEATTLE LIGHTING CO., 360 Stuart Bldg., Seattle, Wash.
Gen. Mgr. and Treas.—Fred K. Lane
Supt. of Works—N. C. Fancher
Mech. Engr.—P. F. Widholm
Foreman Masons—John Greenwood
Chemist—E. Haviland
Safety Insp.—F. W. Sauer
EQUIPMENT—20 Klonne ovens
Capacity—6½ tons

SEMET-SOLVAY CO., 61 Broadway, New York, N. Y.
Pres.—P. K. Malin
Vice Pres.—J. H. White
Asst to Vice Pres.—C. L. O. Graul
Treas.—Thomas E. Casey
Asst. Treas.—H. S. Swan
Sec.—V. D. Crisp
Asst. Sec.—W. D. Bickham
Pur. Agt.—R. O. Heyser
PRODUCTS—Coke and by-products

SEMET-SOLVAY ENGINEERING CORP. 40 Rector St., New York, N. Y.
Pres.—J. H. White
Vice Pres.—F. W. Steere
Sec.—V. D. Crisp
Treas.—Thomas E. Casey
Asst. Sec.—W. D. Bickham
Asst. Treas.—H. S. Swan
PRODUCTS—Design, manufacture and construction of coke oven plants, by-product apparatus, gas-making machinery, equipment and piping

SLOSS-SHEFFIELD STEEL & IRON CO., 903 American Traders Bldg., Birmingham, Ala.
Chairman—Waddill Catchings
Pres.—Hugh Morrow
Vice Pres.—F. W. Miller (mines and ovens)
Vice Pres. B. F.—J. P. Dovel
Treas.—Russell Hunt
Asst. Treas. and Asst. Sec.—L. D. Burr
Sec.—Russell Hunt
Asst. Sec.—J. S. Larkin
Pur. Agt.—W. B. Dowell
Mgr.—F. W. Miller
Supt.—Fred Osborne

Asst. Supt.—W. H. Mullins
Mech. Engr.—C. C. Harper
M. M.—J. O. Cosper
Chief Elec.—T. W. Maxon
Steam Engr.—E. P. Winters
Foreman Masons—W. B. Riddle
Chemist—E. T. Hamilton
EQUIPMENT—120 Semet-Solvay ovens
Capacity—3,000 tons coal

T

TENNESSEE COAL, IRON & R. R. CO., Brown Marx Bldg., Birmingham, Ala.
Pres.—Geo. Gordon Crawford
Vice Pres.—H. C. Ryding
Vice Pres. Sales—Willard Wilson
Asst to Vice Pres. Opr.—William Mathias
Asst to Vice Pres. Const.—R. R. Baxter
Treas. and Sec.—L. T. Beecher
Pur. Agt.—LeRoy Holt
Asst. Treas. and Asst. Sec.—C. R. Sexton
Auditor—F. B. Winslow
Chief Engr.—J. E. Fries

(At Fairfield, Ala.)
Chief Elec.—W. V. Dunn
EQUIPMENT—434 Koppers ovens
Capacity—2,560,000 tons of coal per year

TENNESSEE PRODUCTS CORP. (Formerly Chattanooga Gas & Coke Co.), American Trust Bldg., Nashville, Tenn.
Chairman—Wm. Wrigley, Jr.
Asst. to Pres.—Preston Lunsford
Vice Pres. and Sec.—Frederic Leake
Treas.—John McE. Bowman
Asst. Treas.—Alvin Foster
Pur. Agt.—J. D. Cummins
Mgr. Chattanooga Branch—J. H. Jones
Supt.—J. C. Barnhart
Asst. Supt.—T. D. Thurman
M. M.—O. T. Alexander
Pur. Agt.—L. Q. Williams
Chemist—W. A. Hagler
EQUIPMENT—24 Semet-Solvay ovens
Capacity—500 tons coal daily

TOLEDO FURNACE CO., 2000 Union Trust Bldg., Cleveland, O.
Pres.—Henry S. Pickands
Vice Pres.—J. C. McLauchlan
Sec. and Treas.—S. E. Bool
Pur. Agt.—N. B. Prentice
Gen. Mgr.—E. E. Hull

(At Toledo, O.)
Supt.—H. W. King
Asst. Supt.—R. W. Thompson
EQUIPMENT—94 Koppers ovens
Capacity—560,000 tons of coal per year

TRUMBULL-CLIFFS FURNACE CO., THE, 1460 Union Trust Bldg., Cleveland, O.
Pres.—Wm. G. Mather
Vice Pres. Opr.—D. J. Croxton
Treas.—C. G. Heer
Sec.—C. D. Mason

(At P. O. Box 413, Warren, O.)
Mgr.—J. S. Fraser
Supt.—P. T. Moran
Asst. Supt.—H. F. Kelly
M. M.—Thos. Terry
Chief Elec.—E. H. Miller
Pur. Agt.—A. O. Laderer
Chemist—W. M. Edwards
EQUIPMENT—64 Koppers (Becker type) ovens
Capacity—1,200 net tons

U

UTICA GAS & ELECTRIC CO., 258 Genessee St., Utica, N. Y.
Pres.—William T. Baker
Vice Pres.—Geo. H. Stack
Vice Pres. Opr.—E. P. Peck
Vice Pres. Sales—Wm. J. Reagan
Vice Pres. and Gen. Mgr.—Frank B. Steele
Treas.—J. F. Carney
Asst. Treas.—T. E. Ealy
Sec.—Wm. J. McSorley
Asst. Sec.—Sara Harris
Pur. Agt.—A. H. Rhubart
Asst. Gen. Mgr.—R. C. Edmonds
EQUIPMENT—42 Koppers ovens
Capacity—6,000,000 cubic ft. per day

W

WEIRTON STEEL CO., Weirton, W. Va.
Pres.—E. T. Weir
Vice Pres.—D. M. Weir
Vice Pres.—W. H. Balbridge
Vice Pres.—H. D. Westfall
Vice Pres.—J. C. Williams
Treas.—R. J. Hanna
Sec. and Gen. Sales Mgr.—J. J. Watson
Asst. to Pres.—F. A. Hanlin
Pur. Agt.—W. A. Murphy
Asst. Mgr. Sales—H. C. Smith
Auditor—F. M. Hesse
Traffic Mgr.—A. C. Earp
Gen. Traffic Mgr.—W. F. Morris, Jr.
Mgr.—E. J. Anglin
Supt.—C. R. Meissner
Asst. Supt.—C. W. Evans
M. M.—J. S. Williamson
Chief Elec.—A. W. Duncan
Pur. Agt.—W. A. Murphy
Chemist—L. L. LaShell
EQUIPMENT—86 Koppers ovens
Capacity—2,000 tons of coal per day

WHEELING STEEL CORP., Wheeling, W. Va.
Chairman—Alex. Glass
Pres.—Isaac M. Scott
Asst. to Pres.—P. F. Wilson
Vice Pres. Opr.—J. E. Montgomery
Vice Pres. Sales—W. B. Higgins
Asst. Vice Pres.—H. D. Scott
Treas.—W. H. Manning
Asst. Treas.—Geo. P. Whitaker
Sec.—H. P. Beswick
Assts. to Sec.—J. E. Bruce, L. W. Franzheim
Pur. Agt.—E. D. Adams
Gen. Mgr.—E. N. McKelvey
Supt.—J. M. Lowery
Asst. Supt.—J. W. Unroe

Mech. Engr.—J. D. Tinsman
M. M.—H. E. Gould
Chief Elec.—James Farrington
Steam Engr.—F. E. Grenley
Foreman Masons—Alex. Arthur
Chemist—H. E. Wilson
Safety Insp.—J. L. Sivard
EQUIPMENT—145 Koppers ovens
Capacity—12¼ net tons

(At Steubenville, O., Plant)

Supt.—J. M. Lowery

(At Follansbee, W. Va., Plant)

Supt.—J. M. Lowery
Asst. Supt.—J. W. Unroe
By-Product and Benzol Furnaces—R. A. Swift
Chemist—H. E. Wilson
Gen. Foremen—W. D. Wilson, J. J. Benson and H. V. Culbertson
EQUIPMENT—145 Koppers ovens
Capacity—12¼ tons

WINNIPEG ELECTRIC CO., Electric Railway Chambers, Notre Dame and Albert Sts., Winnipeg, Manitoba, Can.
Pres. and G. M.—A. W. McLimont
Asst. to Pres. and Sec.—L. Palk
Treas.—J. S. Mackenzie
Asst to Sec.—S. N. Currie
Pur. Agt.—F. J. Pratt
Asst. Gen. Mgr.—C. H. Dahl
Mgr. Gas Utility—Hugh McNair
Supt.—H. Dunderdale
Mech. and Steam Engr.—A. Mullins
Foreman Masons—Archibald Martin
Chemist—Frank Torpey
EQUIPMENT—17 Koppers ovens
Capacity—6.8 tons each

WOODWARD IRON CO., Woodward, Ala.
Chairman—A. H. Woodward
Pres.—Frank H. Crockard
Vice Pres. and Treas.—D. E. Wilson
Asst. Treas.—F. E. Curtis
Sec.—Herbert E. Smith
Pur. Agt.—J. H. Leonard
Gen. Mgr.—J. A. Long
Asst. Gen. Mgr.—W. D. Miller
Supt.—A. H. Moore
Chemist—W. S. Dorman
EQUIPMENT—230 Koppers and Wilputte ovens

Y

YOUNGSTOWN SHEET & TUBE CO., Youngstown, O.
Pres.—James A. Campbell
Asst. Pres.—Frank Purnell
Vice Pres.—C. S. Robinson
Vice Pres.—H. G. Dalton, Cleveland, O.
Vice Pres. Opr.—W. C. Reilly
Vice Pres. Opr.—E. T. McCleary
Vice Pres. Sales—W. E. Watson
Vice Pres. Fin. and Acctg.—W. J. Morris
Asst. to Vice Pres.—W. M. Neckerman
Asst. to Vice Pres.—H. G. Heedy
Gen. Counsel—J. C. Argetsinger
Compt.—W. N. McDonald
Sec. and Treas.—W. E. Meub
Asst. Sec. and Treas.—Roy M. Welch
Asst. Treas.—C. H. Rose
Auditor—J. H. Steeves
Traffic Mgr.—A. C. Graham
Land and Tax Agt.—A. J. Boehme
Claims Attorney—W. J. Barnum
Pur. Agt.—C. T. Moke

(At East Youngstown, O.)

Supt.—B. M. Stubblefield
Asst. Supt.—J. F. Regan
EQUIPMENT—306 Koppers ovens
Capacity—12¾ tons

(At Brier Hill Plant, Youngstown, O.)

Supt.—E. F. Vogel
Asst. Supt.—F. L. Shreiber
M. M.—J. B. Faulds
Chief Elec.—Elliott Lewis
Steam Engr.—A. L. Wilhoite
Pur. Agt.—C. T. Moke
Foreman Masons—James Wagstaff
Chemist—D. A. Russell
Safety Insp.—J. M. Woltz
EQUIPMENT—84 Koppers ovens
Capacity—12¾ tons

(At Indiana Harbor, Ind., Plant)

Mgr.—W. B. Gillies
Supt.—L. R. Griffin
Asst. Supt.—F. A. Andrews
Mech. Engr.—W. W. Frazier
M. M.—George Soderquist
Chief Elec.—T. C. Carroll
Steam Engr.—Mr. Hallett
Foreman Mason—J. Hampton
Chemist—T. T. Worthington
Gen. Foreman—H. C. DeRango
Safety Insp.—A. D. Berquist
EQUIPMENT—120 Semet-Solvay ovens
Capacity—2,700 tons of coal per day

Z

ZENITH FURNACE CO., West Duluth, Minn.
Pres. and Gen. Mgr.—W. B. Castle
Vice Pres. and Treas.—C. W. Andrews
Sec.—Oscar Mitchell
Asst. Sec., Asst. Treas. and P. A.—A. E. Bennett
Supt.—H. G. Glenn

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A. B. C. BOILER & REPAIR CO., (Formerly City Boiler & Machine Co.,) 511 W. 4th St., Kansas City, Mo.
Pres. and Pur. Agt.—George P. Snyder
Vice Pres.—J. J. Snyder
Sec. and Treas.—N. B. Snyder
PRODUCTS—Boiler repairs, acetylene and electric welding
Incorporated—$10,000

ABENDROTH BROS., Port Chester, N. Y.
Pres. and Gen. Mgr.—Thos. J. Dillon
Vice Pres.—Frank E. Seeley
Sec.—Thos. F. Lynch
Pur. Agt.—James Sayers
Sales Mgrs.—W. P. McCoy and A. S. Grant
Supt.—John P. Hansen
Chief and Mech. Engr.—Lloyd S. Cooney
Structl. Engr.—Joseph Beisinger
M. M. and Foreman Mach.—Louis Beisinger
Blacksmith Foreman—John Melitz
Foreman—Fred Oefinger
Foreman—A. Anderson
Foreman—J. Burke
Foreman—I. Merritt
Foreman—Roy Bell
Foreman—J. Tuffel
Foreman—C. Siltz
Storekeeper—Irving Merritt
Capital Stock—Preferred, $500,000; common, 20,000 shares no par value; issued, 1,175 shares preferred; 18,968 common; bonds issued, $418,800
Railroads—Boat, Trucks and N. Y. N. H. & H. R. R.

ABENDROTH & ROOT MFG. CO., 233 Broadway, New York, N. Y. Plant: Newburgh, N. Y.

ACME BOILER WORKS CO., THE, White Ave., Gallipolis, O.
President—Tom. R. Greene
Vice Pres.—Ora D. Arthur
Treas. and G. M.—Charles Arthur
Sec.—Ethel B. Arthur
PRODUCTS — Boiler manufacturing and repairs
Incorporated—$10,000

ACME BOILER WORKS, INC., Junction and W. Jefferson Ave., Detroit, Mich.
Pres. and Gen. Mgr.—C. L. Simmons
Vice Pres. and Asst. G. M.—J. L. Simmons
Treas., Sec., Sales Mgr. and Draftsman—T. D. Kinney
Pur. Agt.—K. Ratcliffe
Mgr. Coast. and Foreman Repairs—H. Bittner
PRODUCTS—Contracting; boilers, tanks, hoppers, smoke stacks, breechings, plate work
Capital—$35,000; issued, $27,000
Railroad—M. C. R. R. siding

ACME BOILER & FURNACE CO., Bourse Bldg., Philadelphia, Pa.
Chief Engr.—Michael J. Sweeny

ACME BOILER & IRON WORKS, 2645 Christian St., Philadelphia, Pa.

ACME BOILER & TANK CO., 1729 N. 11th St., St. Louis, Mo.
Pres., Treas. and Pur. Agt.—A. J. Getz
Sec.—Lee Rodebaugh
PRODUCTS — Boilers, stacks, tanks, breechings, steel plate work
Capacity—200 tons per month
Incorporated—$20,000

ACME BOILER & TANK CO., 1017 W. 48th St., Chicago, Ill.
Pres. and Treas.—James A. Nolan
Vice Pres. and Gen. Mgr.—W. D. Hawkins
Sec.—M. Nolan
Pur. Agt.—A. J. Graff
Supt.—Wm. Hansen
Storekeeper—James Manes
PRODUCTS—Steel plate fabricators and erectors
Railroad—I. H. B., switch track

ACORN IRON & METAL CO., 310 N. Tennessee Ave., Atlantic City, N. J.
PRODUCT—Structural iron
Railroad—Penna. siding

ADAMS MACHINE CO., W. T., Corinth, Miss.
PRODUCTS—Boiler work, steel plate, sheet metal and machine work

ADLERHURST IRON CO., West Haven, Conn.

ADVANCE BOILER REPAIR CO., 3619 Independence Ave., Kansas City, Mo.

ADVANCE-RUMLEY CO., La Porte, Ind.
PRODUCTS—Boilers and agricultural machinery

ADVANCE TANK & BOILER CO., 3015 Walnut St., Milwaukee, Wis.
Pres.—W. R. Andrae
Vice Pres.—E. J. Lepinsky
Treas.—Wm. Gustman
PRODUCTS — Boiler repairing, smoke stacks, tank work
Incorporated—$5,000
Railroad—C. M. & St. P. siding

AEOLIPYPE MFG. CO., 488 Summer Ave., Brooklyn, N. Y.

AEROMOTOR CO., 2500 Roosevelt Road, Chicago, Ill.

AIRTIGHT STEEL TANK CO., Mansion St. and B. & O. R. R., Pittsburgh, Pa.
Vice Pres. and Mgr.—R. E. Cecil

AJAX IRON WORKS, West Washington St., Corry, Pa.
PRODUCTS—Structural

ALABAMA DRY DOCK & SHIPBUILDING CO., Foot Canal St., Mobile, Ala.
Pres.—D. R. Dunlap
Vice Pres.—W. M. Marshall
Sec. and Treas.—G. H. Dunlap
Pur. Agt.—E. L. Merkel, Jr.
Storekeeper—F. Aubert
Sales Mgr.—B. F. Campbell
Supt.—J. M. Griser
Asst. Supt.—A. Dumont
Chief Engr.—W. M. Mayson
Elec. Engr.—H. D. Lesesne
EQUIPMENT—Dry docks, steel fabricating shop, forge shop, machine shops, copper shop, woodworking shop, foundry and pattern shop
PRODUCTS—Ship repairs, dry docking, steel barge construction, shipbuilding
Incorporated—$600,000; issued, $596,300; bonds outstandng, $379,500
Railroad—L. & N.

ALAMO IRON WORKS, 130 Santa Clara St., San Antonio, Tex.
Pres.—J. H. Holmgreen
Vice Pres. and Treas.—E. A. Holmgreen
Sec.—Melrose Holmgreen
Pur. Agt. and Mgr. (Struct. Dept.)—J. R. Oerter
Pur. Agt. and Mgr. (Supply Dept.)—J. C. Cowan
Supt.—E. H. Trick
Storekeeper—G. F. Fontrel
PRODUCTS—Structural, reinforcing bars, plate work, castings
Capacity—3,000 tons per month
Incorporated—$1,000,000

ALBINA BOILER WORKS, 46 Albina Ave., Portland, Ore.

ALEXANDER, GILBERT H., Chester, Mass.
PRODUCTS—Boilers and repairs

ALLEN ENG. & MFG. CO., Savannah, Ga.
PRODUCTS—Steel tanks

ALLEN IRON & STEEL CO., 3rd and Venango Sts., Philadelphia, Pa.

ALLEN SONS, WM., 5 Green St., Worcester, Mass.
PRODUCTS—Boiler repairs and steel plate work

ALLENTOWN POILER WORKS, 368 Walnut St., Allentown, Pa.
Pres. and Treas.—Chas. Collum
Vice Pres., P. A. and G. M.—Francis L. Collum
Sec.—J. Edward Collum
Asst. Sec. Board of Directors—Marlowe Hartung
Sales Mgr.—John L. Fournier
Supt. and Draftsman—John E. Reidy
Chief Engr.—John Boyle
Power Engr.—Charles Elliott
M. M.—Andrew Marion
Foreman Mach.—Albert Lambert
Foreman Repairs—Edward Eberwien
Blacksmith Foreman—O. Rohrbach
Foreman Field—John McGinley
Storekeeper—Eugene Collum
PRODUCTS—Tanks (storage and pressure), breeching, hoppers, boilers and all steel plate work
EQUIPMENT—One tank shop, complete blacksmiih shop, trucks and all construction equipment; also equipment to do all manner of welding
Capital—$35,000, all issued
Railroads—L. V., P. & R., L. & N. E, C. of N. J.; L. V. Transit Co.; truck service within a radius of 20 miles

(At 198 Broadway, New York, N. Y.)
Mgr.—Thomas Murray

(At First Natl. Bank Bldg., Easton, Pa.)
Mgr.—John Masterson

ALLIANCE STRUCTURAL CO., Alliance, O.
Pres.—G. W. Shem
Treas.—M. S. Milbourne
Sec.—W. H. Purcell
PRODUCTS—Engineers and fabricators of steel construction

ALLSOP O'DOUGHERTY CO., 650 Bedford Ave., Brooklyn, N. Y.
PRODUCTS—Boilers, tanks, sheet metal work

ALMIRA IRON WORKS, INC., 4020-24 Schubert Ave., Chicago, Ill.
Pres.—Wm. H. Wehrum
Sec.—Arthur Wehrum
Pur. Agt.—R. C. Doering
PRODUCTS—Structural and ornamental iron and steel work
Capacity—400 tons per month
Incorporated—$50,000

ALMY WATER TUBE BOILER CO., 184 Allens Ave., Providence, R. I.
Pres. and Treas.—Walter S. Almy
Vice Pres., Sec. and Supt.—Chas. F. H. Almy
PRODUCTS—Manufacturing Almy water tube boilers
Incorporated—$60,000
Railroad—N. Y., N. H. & H., side track

ALPINE IRON WORKS, 224 25th St., Brooklyn, N. Y.

AMBROSE, F. O., Janesville, Wis.
PRODUCTS—Boilers

AMERICAN ARCHITECTURAL IRON WORKS, INC., 111 Liverpool St., East Boston, Mass.
Pres. and Gen. Mgr.—Israel Sisson
Vice Pres., Sec., Struct. Engr. and Draftsman—James A. Spillane
Treas., Pur. Agt. and Chief Engr.—Edward Sisson
Mech. Engr.—Robert T. Sisson, Jr.

EQUIPMENT—Structural steel and ornamental iron shop, fully equipped with the latest type fabricating machines
PRODUCTS—Structural steel and ornamental iron

AMERICAN BOILER WORKS. Front and State Sts., Erie, Pa.
Pres. and Mgr.—F. J. Tollan
Sec.—John Tollan
Supt.—J. A. Breene
PRODUCTS—Marine boilers, engine and hull repairs, electric welding, general tank and steel work; builders of steel tugs and scows
Ownership—Private
Railroads—Penna., N. Y. C.

AMERICAN BOILER WORKS, 2734 Hillock Ave., Chicago, Ill.

AMERICAN BOILER WORKS, 1051 Bellevue, Ave., Detroit, Mich.
PRODUCTS—Build and repair boilers, breechings, boiler grates, smoke stacks, pressure tanks, brine tanks, oil storage tanks, kettles, drums, sheet iron work, structural iron work, heavy plate work, coal hoppers, clam shell buckets, acetylene welding

AMERICAN BOILER & IRON WORKS, 700 Hewitt Ave., Bayside, Everett, Wash.
Pres. and G. M.—E. W. Molander
Treas. and Sec., Charge Welding—Philip Foubert
Cashier—T. W. Samuels
Power Engr.—Andrew McFarlane
Foreman Mach.—W. Grieve
Foreman Boiler Shop—Martin Berring
EQUIPMENT—Boiler, blacksmith, welding and machine shops
PRODUCTS—Boilers, smoke stacks, burners (mill), ship smithing
Incorporated—$50,000
Railroad—G N.

AMERICAN BOILER & SHEET IRON WORKS, 1401-25 Van Buren St., Indianapolis, Ind.
Supt.—Geo. Chastain
PRODUCTS—Manufacture heating boilers, tanks, smoke stacks, boiler repairing
Railroad—Located on Belt R. R., which switches to all roads entering the city

AMERICAN BRIDGE CO., Main office: Frick Bldg., Pittsburgh, Pa. Plants: Ambridge, Pencoyd and Pittsburgh, Pa.; Elmira, N. Y.; Gary, Ind.; Toledo, O.; Minneapolis, Minn.; Trenton, N. J.; Canton, O.; Chicago, Ill.; St. Louis, Mo.
Pres.—Joshua A. Hatfield, New York
Vice Pres.—L. A. Paddock, Pittsburgh
Vice Pres.—Frank B. Thompson, Pittsburgh
Sec.—R. F. Ball
Treas.—F. E. Wiley
Asst. Sec.—Geo. K. Leet, New York
Asst. Treas.—Wm. K. Cornwell
Asst. Gen. Opr. Mgr.—M. Williams
Pur. Agt.—W. G. A. Millar
Act. Chief Engr.—C. G. E. Larsson, N. Y.
Gen. Mgr. Erect. Dept.—Richard Khuen, Jr.
Div. Mgr. Erect. Dept.—J. L. de Vou
Div. Mgr. Erect. Dept.—C. S. Garner
Div. Erect. Mgr.—J. B. Gemberling
Div. Erect. Mgr.—K. L. Strickland
PRODUCTS — Steel bridges, buildings, barges, etc.
Capacity—600,000 tons per year
Stock Issued—$10,000,000

(At Gary, Ind., Plant)
Opr. Mgr.—E. A. Smith, Chicago office
Mgr.—P. W. Seyl
Asst. Mgr.—J. K. Thompson
Supt.—F. J. Cavanaugh
M. M.—J. G. Sponsel
Chief Elec.—A. M. Tucker
Engr.—F. W. Dencer
Foreman—T. R. Barrett
Foreman—C. C. Tobias
Foreman—F. L. Seitz

(At Minneapolis, Minn., Plant)
Mgr.—Earl H. Casper
Engr. Draftsman—R. W. Robinson

(At Elmira, N. Y., Plant)
Mgr.—R. T. Lewis
Supt.—Arthur Brown
Chief Elec.—J. E. Richardson
Mach. Shop Foreman—E. H. Benson
Forge Shop Foreman—Geo. Angrove
Civil Engr.—Henry W. Preston
PRODUCT—Structural steel, fabricating only
Capacity—60,000 tons annually
Fuel Used—Coal, 7,500 tons
Power Plant—1,000 boiler horsepower
Railroads—D. L. & W. R. R., Northern Central R. R., Erie & L. V. R. R.

(At Canton, O., 20th St. and Garfield Ave., S. W.)
Gen. Supt.—W. P. Marti
Plant Mgr.—J. W. Peterson
Struct. Engr.—R. C. Feezel
M. M.—W. L. Wilson
Elec.—Elmer Neff
PRODUCTS—Structural steel

(At Ambridge, Pa., Plant)
Mgr.—Louis D. Reilly
Asst. Mgr.—David L. See
Gen. Supt.—F. K. McDanel
Supt. O. H.—Wm. P. Bradley
Engr.—R. G. Manning
M. M.—A. B. Churchill
EQUIPMENT—One acid 20-ton O. H. furnace, two 500 kw., one 300 kw., one 1,000 kw., three 2,000 ft. compressors, hydraulic pumps, etc.
PRODUCTS—Structural steel for bridges, buildings and barges, steel and brass castings
Capacity—200,000 tons annually
Railroad—Penna.

AMERICAN BROWN BOVERI ELECTRIC CORP., Broadway and Fairview St., Camden, N. J.

Chairman—Wm. M. Flook
Vice Pres.—C. L. Bardo
Vice Pres.—M. L. Sindeband
Treas. and Sec.—J. E. Slater
Asst. Treas.—A. G. Connell
Gen. Mgr.—W. S. Newell
Pur. Agt.—Leon G. Buckwalter
Sales Mgr. Shipbuilding Div.—R. A. Workman
Asst. Gen. Mgr. Shipbuilding Div.—E. H. Cornbrooks
Chief Engr. Shipbuilding Div.—M. W. Torbet
M. M.—L. C. Kauffman
Elec. Engr. Shipbuilding Div.—L. A. Naudain
Elec. Engr. Electro-Mech. Div.—J. U. Brunner
Civil Engr.—E. H. Sapp
Foreman Mach.—J. N. Harrison
PRODUCTS—Shipbuilding, boilers, machine shop work, electrical work
Capital—Preferred, 30,000 shares, participating 395,256 shares; founders, 300,000 shares; bonds, $5,319,800
Railroads—Penna. and Reading sidings in own yard

AMERICAN ENGINEERING CO., Aramingo and Cumberland Sts., Philadelphia, Pa. Plant No. 1, Aramingo and Cumberland Sts., Philadelphia, Pa. Plant No. 2, Wheatsheaf Lane and Sepviva St., Philadelphia, Pa.
Chairman Board of Directors—Wm. F. Sauter
Pres.—M. Alpern
Vice Pres.—W. V. Sauter
Treas. and Sec.—C. L. Cushmore
Pur. Agt.—E. W. Sharninghausen
Sales Mgr.—J. G. Worker
Supt.—H. A. Peck
Chief Draftsman—C. V. Koons
PRODUCTS—Machinery manufacturers
Incorporated—$5,000,000; issued, $3,370,500
Railroads—P. & R. and Penna.

AMERICAN INTERNATIONAL CORP., Hog Island, Philadelphia, Pa.
PRODUCTS—Shipbuilding

AMERICAN IRON WORKS, 524 E. Main St., Louisville, Ky.
PRODUCTS—Boilers and steel plate work

AMERICAN SHIPBUILDING CO., THE. Foot of West 54th St., N. W., Cleveland, O.
Pres.—A. G. Smith
Vice Pres. and Treas.—James E. Davidson
Vice Pres. and Sec.—W. H. Gerhauser
Asst. Treas. and Asst. Sec.—G. C. Sheidler
Pur. Agt.—C. H. Hirsching
Chief Engr.—J. C. Workman
Naval Architect—A. W. Cross
PRODUCTS—Shipbuilding, ship repairing, heavy forging and machinery
Incorporated $15,500.000

AMERICAN SPIRAL PIPE WORKS, P. O. Box 485, Chicago, Ill.
Chairman—J. Hall Taylor
Pres.—J. H. Taylor
Pur. Agt.—W. F. Stuker
Supt.—Paul Pfug
Mech. Engr.—J. P. Narkiwiecz

AMERICAN STEEL PIPE & TANK CO., 814 W. M. Garland Bldg., Los Angeles, Cal. Plant: 141 So. Palm Ave., West Alhambra, Cal.
Pres., G. M. and P. A.—J. E. Graves
Vice Pres. and Sales Mgr.—Collin W. Timmons
Treas. and Plant Mgr.—L. P. Welch
Sec.—M. S. Burrowes
Mech. Engr.—Oliver W. Kilham
PRODUCTS — Manufacturers plate and sheet steel products
Incorporated—$150,000

(At West Alhambra, Cal., Plant)
Treas. and Supt.—L. P. Welch
Asst. Supt.—Joseph T. James
Mech. Engr.—Oliver W. Kilham
Foreman Machinist—W. G. Carpenter
Foreman Welding Dept.—W. E. Kelly
Foreman Casing Dept.—A. H. Guenthart
Foreman Pipe Dept.—W. J. Baker
Foreman Tank Dept.—Russell Rawson
PRODUCTS—Sheet iron tanks, water pipe, well casing
Railroads—So. Pac., Pac. Electric

AMERICAN TANK CO., 1526 East 7th St., Oklahoma City, Okla.
Pres.—J. R. Gruver
Vice Pres. and G. M.—J. T. Simmons
Treas.—C. J. Turpin
Sec. and Asst. Treas.—L. J. Bell
Pur. Agt.—H. E. Burns
Supt.—L. M. Hackett
PRODUCTS—Manufacturers and erectors of bolted steel; also redwood tanks; welded tanks of all kinds
Incorporated—$375,000; issued, $283,575
Railroad—M. K. & T. R. R.

AMERICAN TUBE & PIPE BENDING CO., Mineral Ridge, O.
Pres.—A. Onaroto
Vice Pres. and Treas.—Wm. B. Curtis
Sec.—J. H. Collier
Gen. Mgr.—L. J. F. Freedman
PRODUCTS—Bent boiler tubes
Incorporated
Railroad—Erie

AMERICAN WELDING CO., Carbondale, Pa.

AMERICAN WELDING CO., 1605 Houston, St., Fort Worth, Tex.
PRODUCTS—Welded steel tanks

AMOS IRON WORKS, 2nd, cor. Cuyoga St., Oswego, N. Y.

AMOS & CO., CHARLES, 3000 Hart Ave., Detroit, Mich.
Treas.—E. J. Amos
Gen. Mgr. and Draftsman—Charles B. Amos

PRODUCTS—Ornamental and art iron work for commercial, church, school and residence buildings
Ownership—Private
Railroads—N. Y. C., Penna., Great Lakes

ANDERSON BOILER & WELDING CO., 229 E. 8th St., Anderson, Ind.
PRODUCTS—Boiler repairs, welding steel tanks, etc.

ANDREWS HEATING CO., 2629 University Ave., Minneapolis, Minn.
PRODUCTS—Steel boilers, septic tanks, thermostats, water and steam heating systems, sewage disposal

ANDREWS & OLDS BOILER & WELDING CO., 9th St. and Railroad Ave., Moline, Ill. Formerly Moline Boiler Works
Prop. and Mgr.—M. J. Andrews

ANTHRACITE BRIDGE CO., 300-310 Genet St., Scranton, Pa.
Pres. and G. M.—Boyd A. Musser
Vice Pres.—John F. Brandt
Treas. and Sec.—Harry E. Detwiler
PRODUCTS — Designing engineers and manufacturers of structural steel, engineers and builders of concrete structures
Capacity—500 tons per month
Railroads—D. & H., D. L. & W., C. R. R. of N. J., Erie and L. & W. V.

ARKANSAS BRIDGE CO., Waldheim, Bldg., Kansas City, Mo.

ARKANSAS FOUNDRY CO., 1500 East Brown St., Little Rock, Ark.
Chairman, Treas., Sec. and G. M.—F. L. Brown
Pres. and Foreman Fdry.—T. T. Rogers
Vice Pres., Pur. Agt. and Sales Mgr.—J. J. Schmetze
Supt. and Chief Engr.—A. G. Crawford
Struct. and Mech. Engr.—J. S. Moseley
Draftsman—J. Powell
Foreman Mach.—C. A. Tempest
Blacksmith Foreman—C. A. Fleming
PRODUCTS — Engineers, founders, machinists, structural steel
Capital—$100,000; issued, $20,000
Railroads—Rock Island, Mo. Pac.

ARMSTRONG MFG CO., 615 W. Liberty St., Springfield, O.
Sales Mgr.—V. M. Varley
Gen. Mgr.—W. C. Armstrong
P. A. and Asst. Gen. Mgr.—C. F. Smith
Supt.—Frank Jones
Foreman Mach.—H. M. Van Cleaf
PRODUCTS—Grey iron and semi-steel foundry, machine shop
Ownership—Private
Railroad—Penna., own sidings

ARMSTRONG & PARKER, 361 Guilford Ave., Baltimore, Md.
PRODUCTS—Structural steel and iron work

ASTORIA MARINE IRON WORKS, Astoria, Ore.

ATKIN & BOBBINGTON, Trenton, N. J.
PRODUCTS—Structural steel and iron work

ATLANTIC BRIDGE CO., Benbow Road, Greensboro, N. C.
Pres.—W. A. Crabtree
Vice Pres. and Treas.—Ralph P. Coble
Vice Pres.—J. R. Jones, Sr.
Sec.—J. E. Goodwin
Asst. Sec.—S. Quattlebaum
Pur. Agt.—W. F. Morrison
Storekeeper—N. C. McCulloch
Mgr. Construct.—J. W. Elliott
Chief Engr.—H. G. Hunter
Foreman Repairs—N. C. McCulloch
PRODUCTS—Steel and concrete bridges, foundations, buildings
Capacity—$2,000,000 in contracts per year
Incorporated—$100,000

ATLANTIC STRUCTURAL CO., 47 W. 34th St., New York, N. Y.

ATLANTIC WORKS, 80 Border St., East Boston, Mass.
PRODUCTS—Steel plate work

ATLAS IRON WORKS, St. Louis, Mo.
Pres.—A. H. Koppen
Vice Pres. and Struct. Engr.—Chas. E. Galt
Treas.—O. B. Klein
Sec. and Supt.—Wm. C. Smith
PRODUCTS—Structural steel fabricated
Capacity—300 tons per month
Incorporated—$150,000; issued, $100,000
Railroad—Terminal R. R., on our own switch

ATLAS IRON WORKS, INC., 245 Island Brostz Ave., Bridgeport, Conn.
Pres. and Treas.—Samuel Mooney
Sec. and Sales Mgr.—Samuel Mooney
PRODUCTS—Structural and ornamental iron work
Incorporated—$10,000

AUFRICHTIG COPPER & SHEET IRON MFG. CO., ALOIS, 900 So. 3rd St. Plant: 218-20 Lombard St., St. Louis, Mo.
Pres. and Treas.—A. Allina
Vice Pres.—A. F. Epstein
Sec.—H. F. Walz
Supt.—A. Schantl
Foreman—Geo. Frankey
EQUIPMENT—Tank, coppersmithing, light and heavy sheet steel and plate machinery; gas and arc welding
PRODUCTS—Tanks, plate steel, light and heavy steel and copper work, blow pipe, ventilating and heating
Capacity—1,000 tons
Incorporated—$60,400
Railroads—Manufacturers and Mo. Pac.

AUGUSTINE BOILER & TANK WORKS. T. C., 2606 Bartlett St., St. Joseph, Mo.
Foreman—B. L. Augustine
PRODUCTS — Boilers, tanks, stacks, breechings, stand pipes, etc.
Capacity—10 tons per week
Ownership—Private
Railroad—Siding on Burlington

AUSTIN CO., THE, 16112 Euclid Ave., Cleveland, O. Plant: East 222nd St., Cleveland, O.
Chairman—Samuel Austin
Pres.—W. J. Austin
Vice Pres.—G. A. Bryant, Jr.
Treas. and Sec.—C. W. Kinnison
Pur. Agt.—P. J. Brennan
Chief Engr.—H. E. Stitt
PRODUCTS—Structural steel fabricating

AUSTIN BROTHERS, 1815 Coombs St., Dallas, Tex.
Pres.—Frank E. Austin
Vice Pres. and G. M.—J. Warren Jones
Treas. and Sec.—W. O. Swift
Sales Mgr.—Chas. R. Wanner
Pur. Agt. and Mgr. Const.—J. W. X. Browne
Supt. and Foreman—A. E. Sullivan
Structural Engr.—V. H. Montgomery
Draftsman—M. F. Berry
Power Engr.—Fred Reed
Blacksmith—Henry Harbrecht
Traffic Mgr.—H. G. Granger
PRODUCTS—Structural steel, reinforcing steel, miscellaneous and ornamental iron
Capacity—1,000 tons per month
Incorporated—$300,000; bonds, $150,000
Railroads—Santa Fe and Cotton Belt

AVERHILL MACHINERY CO., A. H., 324 Belmont St., Portland, Ore.

AXTELL MFG. CO., F. W., Brooklyn Heights, Fort Worth, Tex.
PRODUCTS—Steel tanks, etc.

AYKROYD IRON WORKS, INC., 44 Rockdale St., Worcester, Mass.
PRODUCTS—Structural steel and iron work

B

BABCOCK & WILCOX CO., THE, 85 Liberty St., New York, N. Y. Plants: Bayonne, N. J., and Barberton, O.
Chairman—E. H. Wells
Pres.—A. G. Pratt
Vice Pres.—I. Harter
Vice Pres.—C. W. Middleton
Treas.—F. L. Ward
Pur. Agt.—J. W. Haslam
PRODUCTS—Water-tube boilers, mechanical stokers, steam superheaters, economizers, air heaters and oil burners

BACON HEATER & MFG. CO., 2622 Franklin Blvd., Cleveland, O.

BADENHAUSEN CORP., 1011 Chestnut St., Philadelphia, Pa. Plant: Cornwells Heights, Pa.
Pres., Sales and Gen. Mgr.—Philip Badenhausen
Vice Pres.—J. H. Rohrer
Treas. and Sec.—William N. Way
Pur. Agt.—E. G. Stoler
Supt.—E. Purcell
Struc. Engr., Draftsman and Mech. Engr.—M. H. Kuhner
PRODUCTS—Water tube boilers, superheaters, preheaters, water cooled furnaces, air heaters, corrosion precluders
Capacity—200,000 to 300,000 boiler horse power per annum
Incorporated—$200,000
Railroad—Penna.; Water, Delaware River

BADGER CORRUGATING CO., 1801 West Ave., So., La Crosse, Wis.
Pres. and Treas.—Gust. F. Sexauer
Vice Pres.—Clarence B. Sexauer
Sec.—Eugene N. Knothe
PRODUCTS—Manufacturers and jobbers sheet metal building products
Incorporated—1903

BAIN-BEAIRD CO., INC., THE, Shreveport, La.
Pres.—H. H. Bain
Vice Pres. and G. M.—J. B. Beaird
Pur. Agt.—C. W. Weirick
Mgr. Construct.—E. B. Whebker
Supt.—D. D. Davis
Chief Engr.—W. W. Alsop
PRODUCTS—Structural steel plate and tank work, tank car repairs
Incorporated—$300,000; issued, $250,000
Railroads—Own trackage, Main Line K. C. S. Ry.; all railroads entering Shreveport

BAIZLEY IRON WORKS, THE JOHN, 514 S. Delaware Ave., Philadelphia, Pa.
Pres.—John Baizley
Treas.—Noble L. Lauck
Supt.—Frank Baxter
Draftsman—Lawrence J. Flanagan
PRODUCTS—Structural iron and steel
Incorporated
Railroads—Penna., Reading, B. & O.

BAKER-CASING SHOE CO., Coalinga, Cal.
PRODUCTS—Steel bridges

BAKER IRON WORKS, 950 N. Broadway, Los Angeles, Cal.
Pres.—Milo A. Baker
Vice Pres. and G. M.—Harry S. Hitchcock
Vice Pres. and Sec.—W. C. Kennedy
Vice Pres. and Supt.—Lawrence T. Baker
Treas.—Guy C. Boynton
PRODUCTS—Structural steel, elevators, steel plate work, riveted steel water pipes, heavy machinery, electric cranes, gray iron castings
Incorporated—Capital and surplus over $1,000,000
Railroad—So. Pac. track in own yard

BALDWIN LOCOMOTIVE WORKS, THE, 500 N. Broad St., Philadelphia, Pa. Plant: Eddystone, Pa.
Pres.—Samuel M. Vauclain
Vice Pres. Charge Plants and Mfg.—John P. Sykes
Vice Pres. Charge Finance—Wm. DeKrafft
Vice Pres. Charge Domestic Sales—Archibald H. Ehle
Vice Pres. Charge Foreign Sales — F. de St. Phalle
Vice Pres. Charge N. Y. Office — James McNaughton
Vice Pres. Charge Mfgr.—Chas. A. Bourgeois
Vice Pres. Charge Plant and Equip.—Jacques L. Vauclain
Vice Pres. Charge Engr.—Harry Glaenzer
Vice Pres. Charge Pur.—Wm. A. Russell
Vice Pres. Charge Consulting — Henry V. Wille
Sec. and Asst. Treas.—Arthur L. Church
Comptroller—A. B. Ehst

BALL BOILER & TANK CO., 1108 St. Paul Ave., Milwaukee, Wis.

BALTIMORE DRY DOCK & SHIPBUILDING CO., foot East Fort St., Baltimore, Md.
PRODUCTS—Shipbuilding and steel stacks

BALTIMORE SHIP REPAIR CO., INC., (Formerly McIntyre & Henderson), 821 Key Highway, Baltimore, Md.
Pres.—Henry Kolb
Vice Pres.—John Swanke
Treas. and Sec —Harry J. Moylan
Foreman Mach.—G. Gustafson
EQUIPMENT—Machine and boiler shops
PRODUCTS—Marine repairs
Incorporated—$125,000
Railroad—Municipal Belt Line

BANCROFT-JONES CORP., 120 Broadway, New York, N. Y.

BANNER IRON WORKS, 4560 Shaw Ave., St. Louis, Mo.
Pres.—W. T. Koken
Vice Pres.—H. A. Frielingsdorf
Treas.—E. C. F. Koken
Asst. Treas.—B. F. Jacobsmeyer
Pur. Agt.—Lee Hooneyer
Storekeeper—R. Schueler
Sales Mgr.—John B. Frielingsdorf
Gen. Mgr.—O. J. Belzer
Supt.—Wm. Hommel
Chief Engr.—O. H. Olfe
Struct. Engr.—F. J. Weniert
PRODUCTS—Structural steel, ornamental iron, grey iron castings
Capacity—500 tons per month
Railroads—Mo. Pac. Ry. and 26 trunk lines

BARBER & ROSS, 11th and G Sts., N. W., Washington, D. C.
PRODUCTS—Structural steel and iron work

BARNES CO., CHARLES, 55 Main St., Cincinnati, O.
Chairman—Wm. Prestner
Prese.—Charles Barnes
Vice Pres. and Treas.—A. W. Barnes
Sec.—August Kruck
Mgr. Const. and Chief Engr.—George Barnes
Struc. Engr.—David Barnes
PRODUCTS—River steamers and machinery
Incorporated—

BARNEY, H. M., Petrolia, Pa.
PRODUCTS—Boiler repairs and iron and steel work

BARTLETT & CO., A. F., 930 So. Water St., Saginaw, Mich.
Pres. and G. M.—Arthur A. Schupp
Treas. and Sec.—H. F. Willis
EQUIPMENT—One 20-ton and one 5-ton electric traveling cranes, two cupolas, heavy machine shop equipment, punches, shears, etc.
PRODUCTS—Structural steel fabrication, gray iron castings and heavy machine work
Incorporated—$125,000
Railroads—Mich. Cent. for car load, siding in building, L. C. L., M. C., P. M., G. T., boat, electric and truck

BARTLETT HAYWARD CO., THE, Scott and McHenry Sts., Baltimore, Md.
Chairman—C. D. Marshall
Pres.—Howard Bruce
Vice Pres. and G. M.—H. H. McClintic, H. Fisher
Vice Pres.—J. A. Mason, C. F. Hockley
Treas. and Sec.—Geo. E. Probest, Jr.
Asst. Treas. and Asst. Sec.—H. H. Vordemberge
Pur. Agt.—T. B. Athey
Mgr. Construct.—Albert C. Bruce
Supt. E. R. Hall
Chief Engr.—H. L. Underhill
PRODUCTS—Gas holders, gas works apparatus and iron and steel work of similar nature; flexible shaft-couplings and special machinery
Incorporated—$1,500,000
Railroad—Spurs from B. & O. R. R.

BARTLETT & SNOW CO., C. O., 6200 Harvard Ave., Cleveland, O.
Pres. and Treas.—W. S. Lister
Vice Pres. and G. M.—H. S. Hersey
Vice Pres.—I. S. Osborn
Sec.—H. L. McKinnon
Asst. Treas.—J. Q. Markin
Pur. Agt.—C. R. Willson
Works Mgr.—C. J. Neville
Prod. Mgr.—H. A. Christy
Chief Engr.—M. E. First
Chief Draftsman—R. M. Gerstacker
PRODUCTS—Skip hoists, sprocked chains and wheels, gears, conveying and elevating equipment, coal and ash handling machinery
Incorporated — $551,200; bonds issued, $150,000

BARTON BOILER WORKS, Charleston, W. Va.

BARTZ, JOHN J., 249 15th St., Milwaukee, Wis.
PRODUCTS—Structural steel and iron work

BASS FOUNDRY & MACHINE CO., 1602 Hanna St., Fort Wayne, Ind.
Pres. and Treas.—G. M. Leslie
Vice Pres. and G. M.—C. T. Strawbridge
Sec. and Pur. Agt.—L. H. Link
Foundry Supt.—Wm. Klingman
Boiler Shop Supt.—Robert Schellhammer
Forge Shop Supt.—H. M. Loomis
Chief and Mech. Engr.—L. E. Armstrong
Asst. Chief Engr.—J. W. Dickens
Chief Elec. Engr.—Irving King
M. M. and Foreman Machine Shop—T. O. Blyth
Met.—Charles Cousar
Chief Draftsman—J. W. Dickens
Foreman Rep.—Albert Brudi
PRODUCTS—Boilers, feed water heaters, chilled iron car wheels, gray iron castings, heavy hammered iron and steel forgings, steel plate and machine work
Capital — $1,700,000 common; $349,000 preferred
Railroads—Wabash and Penna. siding

BATAVIA ENG. WORKS, INC., Batavia, Ill.
PRODUCTS—Structural steel work

BATES STEEL CORPORATION, WALTER, East Fifth Ave., Gary, Ind.
Pres.—Walter A. Bates
Vice Pres.—Luke D. Stapleton, Jr.
Treas.—William Ringer
Sec.—B. C. Johnson
Supt. Plant—George H. Truman
Chief Engr.—James S. Martin
Chief Draftsman—F. L. Campbell
PRODUCTS—Steel fabrication
Incorporated
Railroads—Elgin, Joliet & Eastern Ry., Chgo. So. Shore and So. Bend Rd.

BATTIS BROTHERS, 43 Market St., Oshkosh, Wis.
PRODUCTS—Boiler shop

BAUMGARTEN & WYLER, So. Virginia and 6th St., El Paso, Tex.
PRODUCTS—Tanks, etc.

BAY CITY IRON CO., 1301 No. Madison St., Bay City, Mich.
Pres., Treas. and G. M.—Grant Morrison
Vice Pres.—James E. Morrison
Sec.—Carrie Morrison
Chief Draftsman—A. C. Frye
Foreman Mach.—A. H. Philp
Foreman Blacksmith—Harry Hogan
Foreman Foundry—Matthew O'Brien
Foerman Boiler Shop—E. E. Rogers
EQUIPMENT—Boiler and tank, forge and machine shop, foundry and pattern shop
PRODUCTS—General jobbing work
Capacity—About 100 men
Incorporated—$35,000
Railroads—Mich. Cent., P. M., D. & M., G. T., Electric and boat line

BAY CITY IRON WORKS, 1215 Harrison St., San Francisco, Cal.
Gen. Mgr.—Wm. D. Halket
Supt.—A. H. Moffat
Foreman—Edward Furlong
PRODUCTS—Boiler and tank business, hydraulic press work, structural iron, electric welding, steel automobile truck bodies
Private

BAYLEY CO., WM., Springfield, O.
PRODUCTS—Structural steel and iron work

BAYLEY STRUCTURAL IRON CO., 75 So. Pierce St., Milwaukee, Wis.

BAYNAHAM, J. W., Turkey City, Pa.
PRODUCTS—Boiler repairs and steel work

BEACH MFG. CO., Charlotte, Mich.
PRODUCTS—Structural steel and iron work

BEACH & SON, H. B., 135 Grove St., Hartford, Conn.
PRODUCTS—Boilers and repairs

BEALL PIPE & TANK CORP., 85 Columbia Blvd., Portland, Ore.
Pres. and G. M.—John S. Beall
Vice Pres., Sec. and Sales Mgr.—Eugene W. Gibson
Treas.—M. J. Beall
Asst. Sec.—L. C. McNicholas
Pur. Agt.—Matt Ponttu
Supt.—F. V. Romig
Chief Engr.—H. M. Chadwick
EQUIPMENT — Automatic electric arc welding machines, bending rolls, riveting machines, punches, presses, etc.
PRODUCTS—Pipe welding, tanks, iron culvert
Incorporated—$225,000
Railroad—O. W. R. & N.

BEAR ENGINEERING & CONSTRUCTION CO., 1518 Summer St., Philadelphia, Pa.
Pres.—Walter H. Fasshauer
Vice Pres. and Treas.—Herbert K. Bear
Asst. Treas.—Benjamin F. Bear
Sec.—S. M. McLean
Chief Engr.—Wm. G. Wright
Chief Draftsman—Robert Beatty
PRODUCTS—Structural and ornamental iron work
Incorporated—

BEATRICE STEEL TANK MFG. CO., 700-710 So. 7th St., Beatrice, Neb.
Pres. and Treas.—Thos. E. Adams
Sec.—Thos. E. Adams, Jr.
Supt.—M. E. Dole
PRODUCTS—Steel tanks, culverts, poultry supplies, metal building material
Incorporated—$50,000; issued, $35,000
Railroads—C. B. & Q., C. R. I. & P., Union Pac.

BECKLEY PERFORATING CO., Garwood, N. J.

BECKMAN BROTHERS, 317 S. E. 5th St., Des Moines, Ia.
PRODUCTS—Steel tanks

BECKWITH IRON WORKS, INC., 544 W. 79th St., Chicago, Ill.
Pres.—Arthur Beckwith
Vice Pres. and P. A.—P. H. Ayers
Treas.—Lillian M. Beckwith
Sec.—P. Geo. Prescott
Sales Mgr.—Ray S. Launder
PRODUCTS—Structural and ornamental iron work
Capacity—800 tons per month
Incorporated—$25,000; bonds, $20,000
Railroad—Belt Ry. of Chicago, private switch track

BEDELL STRUCTURAL STEEL WKS., New Orleans, La.

BELL FURNACE & MFG. CO., Northville, Mich.
Pres. and G. M.—S. W. Ambler
Vice Pres.—E. L. Smith
Treas.—E. H. Lapham
Sec.—C. H. Ryan
Gen. Supt.—Charles F. Filkins
PRODUCTS—Warm air furnaces
Incorporated—$40,000; issued, $38,000
Railroads—P. M., Detroit United Lines

BELLEFONTAINE BRIDGE & STEEL CO., THE, Bellefontaine, O.
Chairman—J. L. Longfellow
Pres.—J. E. Miller
Vice Pres.—C. S. Hockett
Treas. and Sec.—C. V. Smith
Asst. Treas., Asst. Sec., G. M. and C. E.—B. A. Ice
Storekeeper—Gus Pusey
Sales Mgr.—G. R. Leidigh
Supt.—Frank Strayer
PRODUCTS—Fabricated structural steel
Capacity—700 tons per month
Incorporated—$300,000; issued, $177,475
Railroads—C. C. C. & St. L., N. Y. C., J. C. & E.

BELMONT IRON WORKS, 22nd and Washington Aves., Philadelphia, Pa. Also plants at Eddystone and Royersford, Pa.
Pres.—Harry B. Hirsh
Vice Pres. and G. M.—A. F. Rader
Treas.—W. C. Smith
Asst. Treas. and Asst. Sec.—J. Howard Rowbotham
Sec.—Edward Browning
Asst. Gen. Mgr.—J. E. Lord
Fur. Agt.—H. A Rowbotham
Mgr. Const.—B. T. Mial
Supt.—J. A. Mitchell
Chief Engr.—J. G. Shryock
PRODUCTS—Plain and fabricated structural steel work for bridges, buildings and all classes of structures
Capacity—4,000 tons per month
Incorporated—
Railroads—Penna., Reading

BEMBERG & SONS IRON WORKS, 10th, cor. Fairview St., Little Rock, Ark.
PRODUCTS—Boilers

BENEDICT CO., JOHN, 1523, Lane Bldg., Davenport, Iowa
PRODUCTS—Structural steel work

BENSON & CO., CHAS. A. N., 1801 No. Fairfield Ave., Chicago, Ill.
PRODUCTS—Fabricating structural steel

BERGEN POINT IRON WORKS, West 5th St., Bayonne, N. J.
Pres.—Augustus Smith
Vice Pres.—Malcolm McIntyre
Treas.—Edwin Burham
Sec.—Thos. H. Alison
Sales Mgr.—C. Garson
Supt.—John Frohlin
Chief Engr.—Wm. J. Massa
PRODUCTS—Structural steel and plate construction
Capacity—10,000 tons per year
Incorporated—$500,000
Railroad—C. R. R. of N. J., yard track

BERGER MFG. CO., (formerly Florida Metal Pro. Co.), Jacksonville, Fla.
Gen. Mgr.—J. L. Irvin

BERKSHIRE STRUCTURAL STEEL CO., (formerly Joseph Gaydia Iron Works), 1052 38th St., Brooklyn, N. Y.
Pres.—Frank C. Spinner
Sec. and Treas.—Frank Szemko
Gen. Mgr.—Harry J. Wimett
Asst. Gen. Mgr.—Wm. Sullivan
Mgr. Construct.—Henry Brikei
Chief Engr.—Anton Roeser
Struc. Engr.—S. Olsen
Chief Draftsman—A. Beck
Asst. Foreman—Fred. W. May
Foreman—John Deeks
PRODUCTS—Structural steel and ornamental iron
Incorporated—$100,000
Railroad—Railroad siding on premises

BERLIN CONSTRUCTION CO., Berlin, Conn.
PRODUCTS—Structural steel work and bridges
Pres.—Charles F. Chase

BERNARD CO., THE PHILLIP, 2300 Floyd Road, Sioux City, Iowa
Pres.—James C. Cates
Vice Pres.—Ben Bernard
Treas., P. A. and G. M.—E. H. Chicoine
Sec.—O. L. Bernard
Sales Mgr.—O. N. Gingrich
Mgr. and Supt. Construc.—B. M. Bernard
EQUIPMENT—Presses, punches, shears, etc.
Capacity—500 waterers, 50 cupolas and 300 steel windows per day
Incorporated—$72,240; bonds, $34,000
Railroad—On Illinois Central Siding

BERNAR STRUCTURAL STEEL CO., ROBERT, 401 So. Harding St., Indianapolis, Ind.

Pres.—Robert Berner
Vice Pres.—R. H. Dickson
Treas.—F. C. Miller
Sec.—A. W. Gage
PRODUCTS—Fabrication and erection of steel structures and plate work
Incorporated—
Railroad—Penna.

BERRY ENG. CO., THE, 610 Crosby St., Chester, Pa.

BERRY IRON & STEEL CO., 5th and Oak Sts., St. Joseph, Mo.
PRODUCTS—Structural steel work

BETHLEHEM CONSTRUCTION CO., Mauch Chunk Road, Bethlehem, Pa.
Pres., G. M. and Sales Mgr.—J. H. Schoenly, Sr.
Vice Pres. and Chief and Struc. Engr.—L. S. English
Treas. and Sec.—E. H. Thevenet
Asst. Treas.—W. H. Mack
Pur. Agt.—J. J. Kisthart
Shop Supt.—C. W. Bernhardt
Mgr. Const.—S. E. Marthinson
Chief Draftsman—A. C. Bauer
PRODUCTS — Fabrication and erection structural steel
Capacity—1,000 tons per month
Capital—$200,000; issued, $77,900

BETHLEHEM FABRICATORS, INC., Eighth and Lehigh Aves., Bethlehem, Pa.
Pres. and G. M.—R. P. Hutchinson
Vice Pres. and Sales Mgr.—W. S. Hutchinson
Vice Pres.—R. S. Taylor
Treas. and Sec.—I. W. Gangawer
Asst. Treas. and Asst. Sec.—M. J. Dimmick
Pur. Agt.—B. C. Sawyer
Storekeeper—Frank Kramer
Supt. Erection—D. R. Lebo
Supt. Plant—R. P. Smith
Chief, Power and Elec. Engr., M. M., Foreman Mach. and Repairs—Harvey Miller
Struc. Engr.—E. L. Guerber
Chief Draftsman—Willis Eby
Blacksmith—F. Buckmiller
PRODUCTS—Fabrication and erection of structural steel
Capacity—5,000 tons per month
Railroads—C. R. R. of N. J., L. V., Reading, L. & N. E.

BETHLEHEM SHIPBUILDNG CORP., Bethlehem, Pa. (Subsidiary Bethlehem Steel Co.)

(At Fore River Plant, Quincy, Mass.)
Vice Pres. and G. M.—S. W. Wakeman
Pur. Agt.—H. R. Sinclair
Gen. Supt.—H. E. D. Gould
Chief Engr.—J. E. Burkhardt
Power Engr.—Frank Goudeif
Foreman Tool Room—W. Gray
Foreman Forging, Die Work and Heat Treating—E. B. Ashworth
PRODUCTS—Ship and engine building
Railroads—Fore River, via East Braintree, Mass.; N. Y., N. H. & H.

(At Moore Plant, Elizabeth, N. J.)
Gen. Mgr.—Lafayette Fisher
Chief Engr.—Wm. S. Wilkinson
Plant Engr.—Robert Welch

(At Steelton, Pa., Plant)
Supt. Bridge Dept.—John H. Myers

BETHLEHEM STEEL CORP., Bethlehem, Pa.
Chairman—Chas. M. Schwab
Pres.—E. G. Grace
Asst. to Pres.—J. M. Larkin
Vice Pres.—H. E. Lewis
Vice Pres.—Joseph J. Tynan
Vice Pres.—C. A. Buck
Vice Pres.—Quincy Bent
Sec—R. E. McMath
Asst. Sec.—N. Berkeley
Treas.—W. F. Hartmann
Asst. Treas.—W. L. Achenbach
Compt.—F. A. Shick
Asst. Compt.—W. L. Louis
Mgr. Sctl. and Plate Sales—G. H. Blakeley
Mgr. Ordnance—G. W. Struble
Gen. Sales Agt.—E. S. Knisely
Pur. Agt.—C. R. Holton
Gen. Traffic Mgr.—J. M. Gross
Met. Engr.—Harry T. Morris
Engr. Mill and Roll—D. L. Eynon
Engr. Ref.—W. H. Kelly

(At Steelton, Pa., Plant)
Gen. Mgr.—Frank A. Robbins
Asst. Gen. Mgr.—E. F. Entwisle
Supt. S. & H. R. R. Co.—J. H. McDonald
Supt. Bridge Dept.—J. H. Meyers
Supt. Frog and Switch Dept.—G. S. Vickery
Supt. Steel Fdry.—W. W. Cooper
Asst. Supt. Steel Fdry.—E. R. Howells
Supt. Forge Dept.—H. B. Hain
Chief Engr.—W. T. Drake
Safety Engr.—J. H. Butler
Elec. Engr.—J. C. Reed
Asst. Elec. Engr—G. J. Walz
Met. Engr. of Tests—H. B. Bent
Chemist—G. P. Vanier

BEYER CO., A. J., Los Angeles, Cal.
Sec.—G. R. Fleischman
PRODUCT—Ornamental iron fabricator

BIEHLER MFG. CO., St. Joseph, Mo.
PRODUCT—Steel plate work

BIGELOW CO., THE, 60 Lloyd St., New Haven, Conn.
Pres. and Treas.—George S. Barnum
Vice Pres. and Sec.—Starr H. Barnum
Supt.—B. F. Throckmorton
Mech. Engr.—Gustave Welter
PRODUCTS—Steam boilers, fire tubes and Bigelow-Hornsby water tube boilers
Incorporated—
Railroad—Siding at plant

BIGGIN CO., INC., CHAS. P., 1829-39 Harlan St., Philadelphia, Pa.
Pres.—Chas. P. Biggin
Sec.—M. Wright

Sales Mgr.—H. Stacye
Foreman Mach.—H. Weber
PRODUCTS—Ornamental and structural iron and wire works
Incorporated

BIGGS BOILER WORKS CO., 1007 Bank St., Akron, O.
Pres. and Asst. G. M.—B. R. Barder
Vice Pres. and Treas.—F. G. Sherbondy
Sec., Asst. Treas. and P. A.—L. E. Strobel
Sales Mgr.—E. R. Kyler
Supt.—J. P. Barder
Chief Engr.—H. B. Futh
Chief Draftsman—D. E. Ewart
Power Engr.—W. Mays
Elec. Engr.—R. DeLong
Foreman Mach.—H. A. Barber
PRODUCTS—General steel plate construction, 1½-inch plate
Incorporated
Railroad—B. & O., 4 private sidings

BIRCHFIELD BOILER CO., 2503 E. 11th St., Tacoma, Wash.
Pres., Sales and Gen. Mgr.—H. E. Post
Vice Pres. and Mgr. Const.—J. A. Eves
Treas.—G. L. Banta
Sec. and Pur. Agt.—C. A. Nelson
Chief Engr.—L. E. McClelland
Mech. Engr.—F. G. Hartley
Foreman—O. M. Larson
EQUIPMENT—Boiler shop and electric welding
PRODUCTS—Steel heating boilers, pipe, tanks, stacks, etc.
Incorporated—

BIRDSALL & CO., W. A., 44 Montgomery St., Newark, N. J.
PRODUCTS—Boiler work, repairs, etc.

BIRMINGHAM BOILER & ENG. CO., 3000 7th Ave., N., Birmingham, Ala.
Pres. and Treas.—W. N. Johnson
Vice Pres. and Sec.—F. R. Metzger
PRODUCTS—Plate and structural work, portable buildings, boiler and blast furnace repairs
Capacity—300 tons per month
Railroad—Southern

BIRMINGHAM FABRICATING CO., Birmingham, Ala.
Pres.—J. M. Plant
Vice Pres.—L. H. White
Sec.-Treas.—C. F. Byrne
PRODUCTS—Ornamental iron and steel, stairways, fire escapes, etc.

BIRMINGHAM TANK CO., THE, 2716 North 26th St., Birmingham, Ala.
Pres. and G. M.—R. I. Ingalls
Vice Pres.—W. R. Guest
Treas. and Sec.—C. W. Zander
Pur. Agt.—R. D. Leach
Storekeeper—W. F. Engleman
Sales Mgr.—J. W. Billings
Mgr. Construc.—F. A. Long
Supt.—C. C. Pinckney
Chief and Struc. Engr.—George Kelman
Chief Draftsman—O. D. Whitaker
Foreman—G. S. Ashcraft
EQUIPMENT—Structural shop, electric welders for tank work, plate mill shop
PRODUCTS—Galvanized steel tanks, welded and riveted, structural steel fabricated tanks and plate work, etc.
Capacity—2,000 tons structural steel monthly; large capacity for tanks and plate work
Incorporated—$250,000; issued, $151,000
Railroads—L. & N., Southern sidings

BLACK, SIVALLS & BRYSON MFG. CO., 7500 E. 10th St., Kansas City, Mo. (Formerly Perfection Metal Products Co.)
Pres.—A. H. Black
Vice Pres.—J. H. Sivalls
Treas.-Sec.—Glenn Skinner
Asst. Sec.—W. B. Penton
Gen. Mgr.—G. Raymond
Supt., Chief Engr.—W. H. Langston
PRODUCTS—Sectional metal tanks, etc.
Capacity—100 tons sheets and plate daily
Incorporated—$200,000
Railroad—Leased track from K. C. South.

BLAW-KNOX CO., Blawnox, Pa.
Pres.—Albert C. Lehman
Vice Pres.—Irvin F. Lehman
Vice Pres. and Gen. Supt.—Wayne Rawley
Vice Pres.—F. M. Bowman
Treas.—B. L. Hirschfield
Asst. Treas.—P. W. Keim
Sec. and Sales Mgr.—Chester H. Lehman
Asst. to Sec.—H. B. Loxterman
Pur. Agt.—William Boyd
Chief Engr.—E. J. McDonnell
PRODUCTS—Water-cooled equipment for steel plants, clam shell buckets, steel buildings, steel grating

BLUE VALLEY STRUCTURAL STEEL CO., 7505 Independence Ave., Kansas City, Mo.
Chairman—Edw. Aaron
Pres.—Vincent Wakefield
Vice Pres.—Ed. S Michelson
Treas.—Vincent Scudiero
Sec. and G. M.—A. R. Silberberg
Pur. Agt.—E. G. Washburn
Sales Mgr.—J. Goldberg, Jr.
PRODUCTS—Structural and fabrication of steel; ornamental iron
Capacity—500 tons monthly
Incorporated—

BLYSTONE MFG. CO., Cambridge Springs, Pa.
Pres.—Clyde L. Smith
Vice Pres.—Ray B. Turner
Sec. and Treas.—Luther G. Conroe
PRODUCTS—Cars and accessories, tile machines and general product plant equipment

BOARDMAN CO., THE, Maple and Hawk Sts., Oklahoma City, Okla.
Pres. and G. M.—John R. Boardman
Vice Pres., Pur. Agt. and Asst. G. M.—Edwin E. Boardman

Treas. and Sec.—Gunnell Moore
Asst. Treas. and Plant Supt.—J. W. Whitlock
Sales Mgr.—Charles S. Harrison
Mgr. Construc. and Chief Engr.—R. S. Thompson
Chief Draftsman—B. O. Underwood
Storekeeper—J. N. Boardman
PRODUCTS—Manufacturers steel tanks and sheet metal products, contractors and jobbers of road machinery
Incorporated—$350,000; issued, $217,400
Railroad—Two loading tracks on Frisco

BOGERT & CARLOUGH CO., THE. 28 Peach St., and 508-526 Straight St., Paterson, N. J.
Pres. and Mgr.—Eugene Bogert
Vice Pres.—Clyde A. Bogert
Treas. and Plant Mgr.—John H. Jacobus
Supt.—Wm. M. Neeb
PRODUCTS— "Boca" pivoted steel windows and doors
Incorporated—
Railroad—D. L. & W.

BOILER FURNACE, CONSTRUC. & REPAIR CO., 110 State St., Boston, Mass.

BOILER REPAIR CO., 446 W. 126th St., New York, N. Y.

BOILER TANK & PIPE CO., 4061 Hollis St., Emeryville, Cal.
Sales Mgr.—W. D. McElwain
Gen. Mgr.—P. W. McDonough
Supt.—A. Vargas
Chief Draftsman—D. Hickok
Foreman Repairs—J. Costello
PRODUCTS—Steel fabricating, plate and structural
Capacity—4,000 tons annually
Ownership—Private
Railroad—Santa Fe Spur

BOLAND & CO., 30 4th St., Troy, N. Y.
PRODUCTS—Structural steel and iron work

BOLLINGER-ANDREWS CONSTRUCTION CO., Verona, Pa.
Pres.—D. P. Bennett
Treas. and Sec.—Joseph W. Fisher
Pur. Agt.—E. W. Hurley
Sales Mgr.—G. W. Sherratt, 1016 Empire Bldg., Pittsburgh, Pa.
Chief Engr.—Wayne E. Mack
EQUPMENT—Structural steel fabricating and machine shops, power plant, etc.
PRODUCTS—Fabricators and erectors of structural steel and builders of industrial plants
Capacity—24,000 tons annually
Capital—$400,000
Railroad—Located on Conemaugh div., Penna., R. R., shipping point, Verona, Allegheny County, Pa.

BOLTERS SONS, A., 2301 Ward St., Chicago, Ill.
PRODUCTS—Structural steel work

BOOM BOILER & WELDING CO., THE, Main and Elm Aves., Cleveland, O. Also plant at 1206 Main Ave.
Pres. and Gen Mgr.—W. B. Boom
Vice Pres.—J. G. Boom
Treas. and Gen. Supt.—H. Halverson
Sec.—J. M. Tolmie
Supt.—W. H. Heller
Storekeeper—George Heller
Chief Engr.—C. D. Vogt
Elec. Engr.—S. Van Munthie
Foreman Machinist—Joseph Denny
Foreman Blacksmith—A. Sterling
Foremen—Jake Roth and Amil Northam
PRODUCTS—Welding, electric, oxy-acetylene and thermit manufacturing of boilers and tanks, machine work
Incorporated—$30,000

BORGER BROS., BOILER WORKS, 257 W. Spring St., Columbus, O.
Pres., Treas., Pur. Agt. and G. M.—E. E. Follmer
Mgr. Constr. and Chief Engr.—Edward O'Leary
Supt.—L. J. Walters
PRODUCTS—Boilers, stacks, breechings and special plate work
Ownership—Private
Railroad—Penna.

BOS HATTEN, INC., 1318 Elk St., Buffalo, N. Y.
Chairman—Harry W. Bluntach
Pres. and G. M.—John Bos, Sr.
Vice Pres.—Mrs. John Bos, Sr.
Treas. and Sales Mgr.—Harry W. Bluntach
Sec.—Mrs. Harry W. Bluntach
Pur. Agt.—Walter J. Bock
Storekeeper—Carl Eggers
Supt.—John Bos, Jr.
Asst. Supt.—Paul Scherer
Struc. Engr.—Harry R. Brooklyn
Foreman—Richard Heitzman
Foreman—Thomas Andrews
PRODUCTS—Sheet iron, steel plate and structural steel

BOSTON BRIDGE WORKS, INC., THE, 47 Winter St., Boston, Mass. Plant: Sixth and Binney Sts., Cambridge, Mass.
Pres.—John G. Andrews
Vice Pres. and Treas.—George H. Williams
Sec. and P. A.—Ernest T. Peverely
Mgr. Construc.—James D. Campbell
Chief Engr.—Maurice F. Brown
Struc. Engr.—John C. Moses
Chief Draftsman—Henry M. Chadwick
PRODUCTS—Steel bridges and buildings
Capital—$250,000

BOVAIRD & SEYFANG MFG. CO., Bradford, Pa.

BOWSER & CO., S. F., East Creighton Ave., Ft. Wayne, Ind.
Chairman—S. F. Bowser
Pres.—S. B. Bechtel
Vice Pres. and Gen. Mgr.—H. J. Grosvenor

Vice Pres.—L. E. Porter
Vice Pres.—T. D. Kingsley
Vice Pres. and Asst. G. M.—D. G. Milligan
Treas.—J. R. Matlack
Sec.—E. O. Eggiman
Pur. Agts.—S. T. Stringer and F. R. McKay
Supt.—G. E. Tibbits
Chief Engr.—C. P. Griffith
Draftsman—C. E. Carlson
Foreman Repairs—J. G. Banks
EQUIPMENT—Gasoline and oil pumps, tanks, lubricating and filtering equipment
PRODUCTS—Gasoline and oil pumps, tanks, lubricating and filtering equipment
Capital—$5,650,000; issued, $4,700,000; bonds issued, $1,421,900
Railroads—Private siding and switch connected with Penna. R. R.

BRACKETT BRIDGE CO., First National Bank Bldg., Cincinnati, O.

BRADLEY, JOHN, 310 Ferry St., Newark, N. J.
PRODUCTS—Repairs, boiler and tank work

BRAINARD & SONS, LEWIS J., 2036 Dominick St., Chicago, Ill.
Partership—Invested, $150,000
Railroad—C. M. & St. P. R. R., switch track right in plant; dock on Chicago River

BRAYTON WILSON, COLE CORP., Back Bay, Boston, Mass.

BREAR & SON, S. D., Tacoma, Wash.
PRODUCTS—Boilers

BRESLIN BOILER & IRON WORKS, 601 So. 10th St., Fort Smith, Ark.
PRODUCTS—Boilers

BRIDGEPORT BOILER WORKS, 202 Housatonic Ave., Bridgeport, Conn.
Engr.—R. B. Hickey

BRIEMAN, C. G., Juneau, Wis.
PRODUCTS—Boiler shop

BROADFOOT IRON WORKS, INC., foot of Church St., Wilmington, N. C.
Pres.—Wm. G. Broadfoot
Treas., Sec. and P. A.—Robt. E. Tapp
Supt.—Marvin Craig
EQUIPMENT—Machine shop, boiler shop, foundry, smith shop, carpenter shop, building shop
PRODUCTS—General ship and locomotive repairs
Incorporated—$60,000
Railroad—Railroad siding and deep water

BRODE IRON WORKS, 31-37 Howthorne St., San Francisco, Cal.
Pres and Gen. Mgr.—W. R. Brode
Vice Pres.—R. J. Brode
Sec.—Emma Brode
PRODUCTS—Structural steel fabrication
Capacity—150 tons per month
Railroad—Cartage to and from shop

BRODEN & DAILEY CONST. CO., Union Bldg., Cleveland, O.

BRODERICK CO., Windsor St. and Big Four R. R., Muncie, Ind.
PRODUCTS—Boilers, tanks and repairs

BROMBACHER IRON WORKS, 55,555 Magnolia St., Los Angeles, Cal.
Pres.—Fred. Brombacher
PRODUCTS—Structural steel and iron work

BRONX BOILER WORKS, 1505 Jerome St., Bronx, N. Y.

BROOKS & CO., T. H., 3104 Lakeside Ave., Cleveland, O.
Pres.—W. H. Shepard
Geen. Mgr.—J. A. Speck
PRODUCTS—Structural and ornamental steel work
Ownership—Private
Railroad—Penna.

BROOKVILLE BRIDGE CO., Brookville, O.

BROTHERS BOILER & MFG. CO., WM., Nicollet Island, Minneapolis, Minn.

BROWN BROTHERS, E., Sprague Ave., cor. Grant St., Spokane, Wash.
Pres.—Jas. E. Brown
Sec. and Pur. Agt.—H. M. Bertheushaw
Supt.—H. J. Dralee
PRODUCTS—Boilers, tanks, stacks, etc.
Incorporated—$30,000

BROWN, JESSE B., 116 Franklin St., Joliet, Ill.

BROWN BOILER WORKS, MILES P., 1027 Chestnut St., Franklin, Pa.
Prop.—Miles P. Brown
Pur Agt.—H. L. Leyda
Supt.—J. W. Brown
PRODUCTS—Steel plate and structural construction; refinery equipment a specialty
Capacity—1,500 to 2,000 tons annually
Railroads—New York Central switch, Erie, P. R. R.

BROWN, W. N., 4006 Natural Bridge Ave., St. Louis, Mo.

BROWNELL CO., THE, Dayton, O.
Pres.—J. R. Brownell
Vice Pres.—F. C. Trowbridge
Treas. and Asst. Sec.—A. E. Hartnett
Sec. and Gen. Mgr.—W. A. Drake
Pur. Agt.—C. E. Wieland
Sales Mgr.—H. E. Seabold
Supt.—C. B. Little
Draftsman—Walter Haag
Foreman Mach.—Matt Kuntz
Foreman Repairs—Wm. Altman

Storekeeper—John Smith
PRODUCTS—Manufacture fire tube boilers for heating and power; special plate work, engines, etc.
Incorporated—$500,000
Railroad—B. & O.

BRUNQUELL IRON WORKS, INC., 122 Monroe St., Hoboken, N. J.
Pres.—George J. Brunquell
Sec.-Treas.—Frederick H. Halterman
PRODUCTS—Fabrication iron and steel plate work, ornamental iron work

BRYAN & BIPPUS, 3920 McCallock St., Wheeling, W. Va.
PRODUCTS—Boiler works, steel plate and tanks

BRYANT HEATER & MFG. CO., 1607 Short St., Canton, O.

BRYANT HEATER & MFG. CO., 952 E. 72nd St., Cleveland, O.

BUCKEYE BOILER CO., THE, Dayton, O.
Pres., Treas. and Pur. Agt.—Wm. F. Ochlchlager
Vice Pres. and Supt.—Walter T. Himes
Sec.—Nicholas F. Nolan
Asst. Sec. and Sales Mgr.—F. W. Streckfuss
PRODUCTS—Welded steel tanks, sheet metal work, smoke stacks, underground tanks for gasoline and oil, air tanks
Capital—$100,000
Railroads—Penna., B. & O., C. C. C. & St. L.

BUCKLEY COLUMN & STEEL CO., 110 Fellows St., Boston, Mass.

BUCYRUS COPPER KETTLE WORKS CO., 731 E. Warren St., Bucyrus, O.
Pres.—Jacob Geiger
Vice Pres., Treas., Pur. Agt. and G. M.—J. D. Geiger
Foreman Mach.—H. J. Carle
Foremen—M. G. Goebel and Simon Walters
PRODUCTS—Copper kettles and equipment
Incorporated—$100,000
Railroads—N. Y. C., Penna., and electric freight

BUFFALO STRUCTURAL STEEL CO., 166 Dart St., Buffalo, N. Y. Plant: Dart and Letchworth Sts.
Pres.—William G. Houck
Vice Pres.—Carl A. Houck
Treas., Sec. and P. A.—Chas. H. Teiper
Gen. Supt.—John P. Maddigan
PRODUCTS—Structural steel fabricators
Capacity—1,000 tons per month

BUFFALO WIRE WORKS CO., INC., 308-332 Terrace, Buffalo, N. Y.
Pres.—John C. Scheeler
Treas.-Sec.—Charles A. Scheeler
Pur. Agt.—Christian Blumenstein
M. M.—George Schaeffer
PRODUCTS—Wire cloth, wire work and artistic metal work

BUILDERS IRON WORKS, 1514 E. Scotts Ave. Plant: Scott Ave., Wilson Way, Taylor and Filer Sts., Stockton, Cal.
Pres.—H. E. Heller
Vice President and Salesmanager—C. E. Kennedy.
Treas. and Sec.—H. H. Bosch.
Pur. Agt., Gen. Sales Mgr.—C. E. Kennedy.
Supt. and Struct. Engr.—H. T. Webb
Foreman Machinist—D. J. Poole.
EQUIPMENT — Structural and forging shops.
PRODUCTS — Structural, architectural, ornamental iron work.
Capacity—2,000 tons structural steel annually.

BUILDERS IRON & STEEL CO., 25 Garvey St., Boston, Mass.

BUILDERS SUPPLY CO., 235 E. Hanover St., Trenton, N. J.
Pres.—H. C. Bebbington.
Sec. and Treas.—Jacob Teich.
PRODUCTS—Structural steel, metal lath, fireproof products.
Incorporated—$100,000

BUILDERS STEEL CO., Windsor St., Hartford, Conn.

BUILDERS STEEL WORKS CO., 4130 Liberty Ave., Pittsburgh, Pa.

BUILDERS STRUCTURAL STEEL CO., Emily St., Dayton, O.

BUILDERS STRUCTURAL STEEL CO., THE, 2880 E. 34th St., Cleveland, O.

BURKHARDT & SONS STEEL & IRON WORKS CO., THE E., 869 So. Broadway, Denver, Colo.
Pres. and Gen. Mgr.—Ernest Burkhardt.
Vice Pres. and Supt.—Louis C. Burkhardt.
Treas. and Sales Mgr.—Herman A. Burkhardt.
Sec. and Pur. Agt.—Otto Burkhart.
Asst. Sec.—Harry Burkhart.
Chief Engr.—King Burkhart.
EQUIPMENT—Building and equipment necessary to steel fabrication.
PRODUCTS—Structural steel and ornamental iron.
Capacity—300 tons per month
Incorporated—$500,000; issued $250,000
Railroad—Two private spurs

BURKHORN & CO., EDWIN, 25 West Broadway, New York, N. Y.
PRODUCT—Cooling Towers.

BURNETT IRON WORKS, J. H., Fresno, Cal.
PRODUCTS—Structural steel work.

BURNETT, J. F., Peabody, Mass.
PRODUCTS—Boilers, repairs, etc.

BURR CO., Champaign, Ill.
PRODUCT—Structural steel.

BURTMAN ORNAMENTAL IRON WORKS, 93 Heath St., Boston, Mass.
Owner—Charles Burtman.
Chief Draftsman—Charles Porter.
Foreman—L. T. Barry.
PRODUCTS—Elevated fronts and wire work of all kinds.

BUTLER CO., Butler, Ind.
PRODUCTS—Steel tanks.

BUTLER MANUFACTURING CO., Kansas City, Mo.
MAIN PLANT—13th and Eastern, Kansas City, Mo., branch plant and office at Minneapolis, Minn.
Chairman board of directors—Charles R. Butler.
Pres. and Gen. Mgr.—E. E. Norquist.
Vice Pres. and Mgr. Minneapolis branch—C. C. Crouch.
Vice Pres.—R. E. Kemp and William A. Knapp.
Treas. and Asst. Sec.—Oscar D. Nelson.
Asst. Treas. R. G. Waring and H. B. Baillie.
Sec.—F. A. Rufi.
Pur. Agt.—A. R. Lee.
Storekeeper—Joe Honn.
Supt.—J. G. Fahlstrom.
Supt. Minneapolis plant—John Nelson.
Chief Engr.—V. C. Norquist.
Chief Draftsman—C. W. Crawford.
Elec. Engr.—Charles Smothers.
Foreman Mach.—O. E. Parker.
EQUIPMENT—Metal working machinery consisting of shears, punches, presses, brakes and gas and electric welding equipment. Also wood-working equipment, sand blasting equipment and paint spraying and lacquering equipment.
PRODUCTS—Manufacturers of sheet steel products.
CAPACITY—Kansas City plant, 20,000 tons per year. Minneapolis plant, 7,500 tons per year.
Incorporated—Authorized $1,750,000
Issued—$1,585,000 fully paid
Railroads—Mo. Pacific and K. C. Southern connecting with all lines at Kansas City, and Great Northern Ry. connecting with all lines at Minneapolis.

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CADILLAC BOILER WORKS, Cadillac, Mich.

CADILLAC IRON WORKS, 1971 Guoin St., Detroit, Mich.
J. Saltzman and N. Altman (partners).
Aud. and Pur. Agt.—A. V. Elconin.
Supt. and Foreman Mach.—A. F. Steele.
Storekeeper—John McHale, Jr.
Draftsman—R. B. Whitney.
M. M.—J. Schawak.
Blacksmith—L. Lavenz.
Partnership.
RAILROADS—Mich. Cent.

CAHILL SWIFT MFG. CO., 1112 Market St., St. Louis, Mo.
PRODUCTS—Boilers.

CALDWELL CO., W. E., 2320 Brook St., Louisville, Ky.
Pres. and Gen. Mgr.—W. E. Caldwell.
Vice Pres. and Chief Engr.—W. E. Caldwell, Jr.
Treas., Sec. and Pur. Agt.—W. S. Beintlinger.
Sales Mgr.—K. E. White.
Supt.—H. E. Roberts.
Chief Draftsman—J. T. Foell.
EQUIPMENT — Heavy machine shop punches, shears, hammers, riveters, rolls, etc.
PRODUCTS—Steel tanks, wooden tanks, power transmission machinery, structural towers.
Capacity—100 tons per month.
Incorporated—$200,000.
Railroads—L. & N., B. & O., C. & O., L. H. & St. L., Big Four, Monon., Penna.

CALDWELL & DRAKE IRON WORKS, Columbus, Ind.
PRODUCTS—Structural steel work.

CALIFORNIA BOILER WORKS, 526 Howard St., San Francisco, Cal.
PRODUCTS—Vertical boilers, steel stacks.

CALIFORNIA CORRUGATED CULVERT CO., 5th and Parker Sts., West Berkeley, Cal.
Pres.—H. W. Force.
Vice Pres.—F. S. Gaines.
Vice Pres.—E. C. Campbell.
Treas.—R. C. Force.
Asst. Treas.—W. E. Cochran.
Sec.—C. R. Hodgkin.
Asst. Sec.—E. W. Faters.
Pur. Agt.—L. B. Wyles.
Chief Engr.—L. W. Wyman.
Struct. Engr.—A. C. Norton.
Chief Draftsman—A. R. Hutton.
Mech. Engr.—K. J. Thorsby.
Elec. Engr.—A. J. Hand.
PRODUCTS—Sheet metal work, plate and light structural work.
Incorporated—$1,000,000; issued, $600,000.
Railroad—So. Pacific, docks for ocean shipment.

CALIFORNIA STEEL CO., Hobart Bldg., San Francisco, Cal. Plant—2nd and and Harrison Sts., Oakland, Cal.
Pres.—E. H. Frisell.
Vice Pres. and Gen. Mgr.—Charles E. Spenser.
Sec. and Asst. Treas.—Wiard E. Spenser.
Supt.—Oscar Winkler
Chief Engr.—C. W. Hess.
PRODUCTS—Structural steel fabrication.
Capacity—400 tons per month.
Incorporated—$100,000; issued, $52,000.
Railroad—S. P. spur.

CALIFORNIA STEEL PRODUCTS CO., 452 Bay St. Office and plant, San Francisco, Cal.
Pres. and Gen. Mgr.—Geo. F. Bont.
Vice Pres. and C. E.—D. L. Calder.
Sec. and Treas.—R. A. Kemp.
Storekeeper—J. Church.
Supt.—W. T. Fowler.
Chief Draftsman—F. Zuest.
Foreman—J. Ghigo.
Foreman—J. Smallen.
EQUIPMENT — Bending rolls, shears, punches, flangers, lathes, welding machines, bull riveter, grinders, air compressors, gas generator, welding and cutting torches, drills, shapers, saws, pipe bull welders, pipe bending machines, blacksmith forges and tools.
PRODUCTS—Air receivers, tanks, smoke stacks, pipe bending and pipe coils.
Incorporated—$100,000. Issued, $60,000.
Railroad—Railroad and steamship.

CALUMET IRON WORKS, 3 Hyatt St., Newark, N. J.
PRODUCTS—Steel tanks and plate work, structural steel.

CAMDEN ANCHOR ROCKLAND MACHINE CO., Camden, Me.
PRODUCTS—Boilers, tanks and sheet metal work.

CAMPBELL BOILER & SHEET IRON WORKS, 720 So. Seventh St., St. Louis, Mo.

CANADIAN BRIDGE CO., LTD., THE, Walkerville, Ont.
Pres. and Gen. Mgr.—John W. Seens.
Vice Pres.—F. H. Kester.
Sec. Treas.—C. T. Miller.
Pur. Agt.—C. D. Henderson.
Gen. Supt.—A. L. Jones.
Asst. Gen. Supt.—W. A. McKenzie.
Operating Mgr.—A. E. West.
Consulting Engr.—George F. Porter.
Chief Engr.—C. M. Goodrich.
Contracting Engr.—R. A. Spencer.
Contracting Engr.—S. E. McGorman.
Chief Draftsman—D. T. Alexander.
PRODUCTS—Steel bridges, steel buildings, transmission towers, locomotive turntable and structural steel work of all kinds.
Capacity—50,000 tons per annum.

CANTON STRUCTURAL STEEL CO., Eberman Place, South East, Canton, O.
Pres.—B. D. Eberman.
Vice Pres.—H. J. Eberman, Jr.
Treas., Sec. and Gen. Mgr.—H. J. Eberman
Mgr. Construction—Henry Selinsky.
EQUIPMENT—Fabricating and erecting equipment. Own power plant.
PRODUCTS — Everything in structural steel.
Capacity—200 tons per month.
Incorporated—$500
Railroad—B. & O., W. & L. E. and Penna.

CAPITAL CITY BOILER WORKS, 126 S. E. 1st St., Des Moines, Ia.

CAPITAL IRON WORKS, Topeka, Kans.
PRODUCTS—Structural steel work.

CARD IRON WORKS CO., C. S., THE, 2501 W. 16th Ave., Denver, Col.
Pres. and Gen. Mgr.—C. S. Card
Treas.—E. Gilpin
Sec. and Sales Mgr.—W. H. Bachman
Asst. Gen Mgr.—L. H. Benster
PRODUCTS—Mine cars and rope haulage
Capital—$200,000; issued $120,000
Railroad—Colorado & Southern

CARLSON, OSCAR F., 145 State St., Springfield, Mass.
PRODUCTS—Boiler repairs, steel work.

CARL'S SONS, CHARLES W., Cole, Linwood & Reading R. R., Trenton, N. J.
Pres. and Chief Engr.—Charles M. Carl.
Asst. to Pres.—J. W. Carl.
Sec.—M. J. Coleman.
Asst. Gen. Mgr.—William Schurter.
EQUIPMENT—Machines for manufacturing sheet metal products.
PRODUCTS—Sheet metal and steel products, steel plate construction.
Ownership—Private.
Railroads — Penna., Reading, Trenton, Trans. Co.

CARROLL BOILER WORKS, 87 W. 2nd St., Oswego, N. Y.

CARTERVILLE BOILER WORKS, Carterville, Mo.

CASE CRANE & ENGR. CO., Columbus, O.
PRODUCTS—Steel buildings

CASE SONS MFG. CO., W. A., 31 Main St., Buffalo, N. Y.
PRODUCTS—Steel tanks and plate work

CASEY BOILER WORKS, 839 Mound St., Springfield, O.
Pres.—D. L. Casey.
Sec — William D. Casey.
Supt.—J. F. Casey.
EQUIPMENT—Rolls, punches, shears and machinery for turning out steel plate products, as tanks, smoke stacks, etc.
PRODUCTS—Boilers, tanks, stacks and steel work.
Railroad—Three railroads and one traction line.

CASEY HEDGES CO., 26th and N. C. & St. L. tracks, Chattanooga, Tenn.
Pres. and Treas.—M. M. Hedges.
Asst. to Pres.—L. H. McGowan.
Vice Pres. and Gen. Mgr.—T. H. Johnson.
Vice Pres. and Sales Mgr.—J. R. Hedges.
Asst Treas.—H. E. Rankin.
Sec.—Alfred Hill.
Sales Mgr. Boiler Dept.—A. W. Harris.
PRODUCTS—Steam boilers, range boilers, soil pipe, plumbers' cast iron goods

CATHELL BROS. & CO., Lawrence and E. Fort St., Baltimore, Md.
PRODUCTS—Steel plate work

CAVE WELDING & MFG. CO., 452 Worthington St., Springfield, Mass.
Vice Pres., Gen. Mgr., Asst. Treas and Pur. Agt.—J. Frank Tucker.

CEDAR RAPIDS BOILER WORKS, 308 No. 2nd St., Cedar Rapids, Ia.

CEDAR RAPIDS PUMP CO., Cedar Rapids, Ia.
PRODUCTS—Steel tanks and pumps.

CELINA MFG. CO., THE, Celina, O.
Pres.—J. E. Hattery.
Vice Pres. and Gen. Mgr.—R. R. Hattery.
Treas.—Henry Lennartz.
Sec.—E. P. Kreimendahl.
PRODUCTS—Manufacturers of sheet steel products, tanks, troughs, waterers, etc.
Capacity—1,000-1,500 tons sheets and bars per year.
Incorporated—$52,000 common.
Railroad—N. Y. C. & St. L. R. R., Cin. Northern R. R., W. O. Ry. Co.

CENTRAL ARCHITECTURAL IRON WORKS, 3101-11 W 27th St., Chicago, Ill.
Pres. and Gen. Mgr.—V. H. Dernehl.
Treas., Sec. and Pur. Agt.—H. J. Schmitz.
PRODUCTS—Pressed steel products and light steel construction.
Incorporated—$7,500.

CENTRAL BOILER WORKS, 5791 Russell St., Detroit, Mich.
Pres., Gen. Mgr. and Pur. Agt.—Harold McGregor.
Treas. and Sec.—Luzerne S. Greene.
Foreman—V. A. Kingery.
PRODUCTS — Repairing boilers, make tanks, smoke stacks and other heavy sheet metal work.
Incorporated—$30,000.

CENTRAL BOILER & SHEET IRON WOKKS, 1002 Harding St., Indianapolis, Ind
Owner—F. J. Schneider.
PRODUCTS—Sheet steel construction.

CENTRAL BOILER TANK AND PLATE IRON WORKS, 220 Lincoln Ave., Millvale, Pa.
Pres.—S. B. Rheam.
Gen. Mgr.—K. J. Rheam
Supt.—J. Armstrong
PRODUCTS—Steel pipe, stacks and tanks.
Ownership—Private.
Capital—$25,000.
Railroads—Penns. and B. & O.

CENTRAL IRON WORKS, 2050 Bryant St., San Francisco, Cal.
PRODUCTS—Fabricated steel work.

CENTRAL SHEET METAL WORKS, 158 No. Des Plaines St., Chicago, Ill.

CENTRAL STATES BRIDGE & STRUCTURAL CO., 601 Beecher St., Indianapolis, Ind.
Pres.—E. N. Messick
Vice Pres.—Geo. K. Cetone
Treas.—M. Gossman
Sec. and C. E.—F. E. Bates.
Sales Mgr.—John A. Booe
Supt.—Charles Miller.
PRODUCTS—Fabricating, steel buildings, bridges, trustles, tipples.
Capacity—500 tons per month.
Railroad—Private switch connecting with Indianapolis Union Ry. Co. belt line.

CENTRAL STRUCTURAL STEEL CO., INC. 176th St. and Harlem River, Brooklyn, N. Y.
Pres.—N. Goldstom.
Vice Pres.—B. Botwinick.
Sec.—A. Freeman.

CHALLENGE CO., Batavia, Ill.
Pres. and Gen. Mgr.—Frank Snow.
Vice Pres.—Albert Snow.
Treas.—A. E. Snow
Sec.—N. E. Snow.
Pur. Agt.—Frank Hopkins.
Sales Mgr.—R. H. Strickland.
Supt.—Walter E. Dickinson.
Chief Engr.—G. Lund.
EQUIPMENT—Machine shop, screw and punch presses, etc.
PRODUCTS—Steel towers, gas engines, wood tanks.
Capacity—$1,125,000 yearly.
Incorporated—Capital and surplus, $1,000,000.
Railroads—C. N. W., C. B. & Q.

CHAMPION BRIDGE CO., Wilmington, Ohio.
Pres.—A. C. Briggs.
Vice Pres.—J. R. Clevenger.
Treas., Sec. and Gen. Mgr.—Robert L. Owens.
Asst. Sec. and Mgr. Const.—Ralph J. Miars
Supt.—C. L. Richardson.
Chief Engr.—Martin J. Spinks.
PRODUCTS—Structural steel for bridges.
Capacity—4,000 tons per annum.
Incorporated—$100,000.
Railroads—Penna., B. & O.

CHANDLER HEATER CO., 1210 So. 12th St., Cedar Rapids, Ia.

CHANDLER & TAYLOR CO., So. Addison and Big Four Ry., Indianapolis, Ind.
PRODUCTS—Boilers.

CHARLESTON BOILER & MACHINE WORKS, Charleston, W. Va.

CHARLESTON DRY DOCK & MACHINE CO., 106 Concord St., Charleston, S. C.
Pres.—W. R. Bonsal.
Vice Pres., Treas. and Pur. Agt.—Charles R. Valk.
Sec.—H. B. Snyder.

Storekeeper—J. E. Kessler.
Gen. Mgr.—C. V. Boykin.
Supt.—R. L. Haig.
Mech. Engr.—P. J. Romanosky.
Foreman Mach.—R. E. Branford.
Foreman Blacksmith—W. T. Abrams.
Foreman Shipfitter—A. A. Gerken.
Foreman Carpenter—J. M. Kennedy.
Foreman Elec.—J. D. Maull.
Foreman Patternmaker—W. F. Burnett.
EQUPMENT—10,000-ton dry dock, 440 by 80 ft.; two marine railways, boiler shop 200 by 80 ft., equipped with 150-ton riveter, 40-ton traveling crane, two 10-ton cranes, 16-ft. bending rolls, punches, shears, plate planer, machine shop, foundry, forge shop, carpenter shop, welding equipment, two locomotive cranes, floating machine shop and repair barge.
PRODUCTS — Marine boilers, barges, scows, lighters, marine repairs, tugs and ferryboats.
Incorporated—$72,100; bonds issued, $750,000
Railroads—A. C. L., Sou., S. A. L. trackage in yard

CHASE, I. J., 201 Washington St., Tampa, Fla.
PRODUCTS—Boiler repairs and steel plate work.

CHATTANOOGA BOILER & TANK CO., 1036 E. Main St. Plant 1011 East Main St., Chattanooga, Tenn.
Chairman—J. B. F. Lowry.
Pres. and Treas.—I. B. Merriam.
Vice Pres. and Mgr. Const.—E. J. Walsh.
Sec. Sales and Gen. Mgr. E. C. Patterson.
Pur. Agt. and Supt.—Val. Reich, Jr.
Supt.—Frank Franer.
Chief Draftsman and Mech. Engr.—R. B. Bayston.
Foreman Mach.—Fred Brown.
Foreman Blacksmith—W. M. Weatherford.
PRODUCTS—Steel tanks and structural iron work.
Capacity—12,000 tons annually.
Incorporated—$150,000
Railroad—Southern

CHESLEY, J. L., Danville, Ill.
PRODUCTS—Boilers and repairs.

CHICAGO BOILER CO., 1965 Clybourn Ave., Chicago, Ill.
Pres., Treas. and Gen. Mgr.—Alfred F. Krumholz.
Sec.—Elizabeth Krumholz
Asst. Gen. Mgr.—S. W. Buchholz.
PRODUCTS—Steel tanks.
Capacity—3,000 tons annually
Incorporated—$25,000.

CHICAGO BRIDGE & IRON WORKS, 57 W. Van Buren St., Chicago, Ill.
Plants—Chicago, Ill., Greenville, Pa.
Subsidiary—Canada Horton Steel Works, Ltd., Bridgeburg, Ont.
Pres.—George T. Horton.
Vice Pres., Sales Mgr.—Merle J. Trees.
Treas.—H. B. Horton.
Sec.—S. A. Poyer.
Pur. Agt.—F. E. Lee.
Mgr. Opr.—C. S. Pillsbury.
Mgr. Const.—H. T. Horton.
Chief Engr.—O. A. Bailey.
Chief Draftsman—F. S. Musser.
PRODUCTS—Steel tanks, gas holders, spherical tanks, oil and flat bottom tanks, penstocks, surge tanks, roadside delivery tanks (railroad), sprinkler tanks, smoke stacks, steel plate construction.
Partnership.
Railroads—C. R. I. & P., Penna., B. & L. E.; for Greenville, Pa., Erie; for Bridgeburg, Ont., G. T., Mich. Cent.

CHICAGO HEIGHTS BOILER WORKS, 101 E. Main St., Chicago Heights, Ill.
PRODUCTS—Boilers, repairs and steel plate work.

CHICAGO SHIP BUILDING CO., 101st St. and Calumet River, Chicago, Ill.
PRODUCTS—Marine work, boilers.

CHICAGO STEEL CAR CO., 157th St., and So. Halstead Ave., Harvey, Ill.
Pres. and Gen. Mgr.—G. H. Gibson.
Vice Pres. and Treas.—A. H. Niblack.
Asst. Treas. and Sec.—Thomas Baker.
Pur. Agt.—J. E. Sober.
Asst. Gen. Mgr. and Chief Engr.—Howard Logan.
Supt.—J. A. McNally
Asst. Supt.—T. C. King.
PRODUCTS—Tank cars, car underframes, tanks, plate and structural work.
Capacity—15,000 to 20,000 tons annually.
Incorporated—$325,000.
Railroads—I. C., G. T., B. & O., Chicago Belt Line.

CHICAGO STEEL TANK CO., 6400 W. 66th St., Chicago, Ill.
Pres., Treas. and Gen. Mgr.—W. J. Katzberg.
Vice Pres., Sec. and Pur. Agt.—C. E. Gordon.
Vice Pres. and Sales Mgr.—R. R. Schurig.
PRODUCTS—Manufacturers of steel tanks, pumps and fittings for the oil and oil burner industry.
Incorporated—$275,000.
Railroads—Belt Railway of Chicago serving 43 lines.

CHRISTOPHER & SON, GEORGE C., Blaine and Indiana Aves., Wichita, Kans.
Pres.—George C. Christopher.
Vice Pres.—F. L. Christopher.
Prod. Mgr.—H. E. Christopher.
PRODUCTS—Structural steel and concrete machinery.
Partnership.
Railroad—Frisco.

CINCINNATI MFG. CO., 1900 Gest St., Cincinnati, O.
Pres.—A. H. Shoenberger.
PRODUCTS—Architectural iron, brass and other metal products.

CITY IRON WORKS, Larrabee and Tillamook Sts., Portland, Ore.
Pres.—John G. Grasz.
Treas., Sec. and Mgr.—Victor Wagini.
Structural Engr.—R. F. Arndt.
Foreman Const.—Frank Waldrich.
Form. Instal.—Eugene Daisig.
PRODUCTS—Ornamental iron, wire and structural steel.
Incorporated—$15,000.
Railroad—Union Pacific.

CITY ORNAMENTAL IRON WORKS, 2673 No. State St., San Diego, Cal.

CLARK ENGINE & BOILER CO., Kalamazoo, Mich.
PRODUCTS — Horizontal and vertical boilers.

CLARK GRAVE VAULT CO., THE, 375 E 5th Ave., Columbus, O.
Pres and Gen. Mgr.—Allen T. Beck.
Vice Pres.—B. C. Ballinger.
Treas., Sec. and Sales Mgr.—J. R. Boeshans.
Supt. and Foreman—Orie Bell.
PRODUCTS—Steel burial vaults.

CLIMAX CORP., Batavia, N. Y.
Pres. and Pur. Agt.—William S. Gouinlock.
Vice Pres. and Treas.—H. Gouinlock.
Sec.—J. Harry Van Arsdale.
EQUIPMENT — Sheet metal, machine, blacksmith and wood shops, foundry.
PRODUCTS—Farm machinery, castings, sheet metal, light structural steel.
Capacity—50 to 100 men.
Incorporated—$281,700.
Railroads—Erie, N. Y. C.

CLINTON BRIDGE CO., Clinton, Ia.
Pres., Treas. and Gen. Mgr.—G. E. Wilson, Jr.
Vice Pres.—J. F. Wilson.
Sec.—F. F. Wilson.
Chief and Struct. Engr.—J. L. Fink.
PRODUCTS—Fabricating structural steel for bridges, buildings, tanks and towers.
Capacity—2,500 tons per month.
Incorporated—Capital and surplus, $500,000; stock issued, $50,000.
Railroads—C. & N. W., C. B. & Q., C. M. & St. P., Mississippi River, C. R. I. & P. R. R., C. D. & M. Ry.

CLYDE IRON WORKS, 29th St., cor. Michigan Ave., Duluth, Minn.
Pres. and Gen. Mgr.—C. A. Luster.
Vice Pres.—J. R. McGiffert.
Treas. and Sec.—M. W. Lepp.
Pur. Agt.—W. F. Lavelle.
Storekeeper—H. A. Mason.
Sales Mgr.—J. T. Frost.
Supt.—I. L. Bishop.
Mech. Engr.—O. L. Berby.
PRODUCTS—Logging, hoisting and excavating machinery, derricks, founders and machinists.
Incorporated.

COATESVILLE BOILER WORKS, Coatesville, Pa.
Pres.—C. W. Edgerton.
Vice Pres.—R. A. Locke.
Treas. and Sec.—Herbert H. Evans.
Pur. Agt.—T. Leslie Steen.
Sales Mgr.—Edwin E. Rohrer.
Supt.—Thomas Weaver.
PRODUCTS—Boilers, tanks, heavy plate construction, gray iron castings.
Capacity—Tank and boiler work ⅛-inch to 1¼-inch thick.
Incorporated—$300,000; bonds issued, $300,000.
Railroads—Penna., Reading.

CODD CO., E. J., So. Caroline St., Baltimore, Md.
Pres. and Gen. Mgr.—Thos. D. Penniman.
Vice Pres.—Henry H. Wiegand.
Foreman Mach.—Fred Eierman.
Foreman Plate Shop—Martin Whalen.
Blacksmith—Edward Sterling.
PRODUCTS—Boilers, engines, steel tanks, chain furnace doors.
Incorporated—$100,000.
Railroads—B. & O., Penna., West. Md.

CODY & SON, JOSEPH, 111 Cedar St., Peoria, Ill.

COFER & BRIDWELL, 697 Marietta St., Atlanta, Ga.
PRODUCTS—Boiler repairs and steel plate work.

COLE-DUNCAN BOILER WORKS, INC., 379-91 Borden Ave., Long Island City, N. Y.
Pres., Treas. and Sales Mgr.—A. M. Duncan.
Vice Pres., Sec., Pur. Agt. and Gen. Mgr.—C. B. Lindstrom
Chief and Mech. Engr.—John Wilhelm.
Foreman Mach.—John Manly.
Foreman—A. L. Shea.
Blacksmith—J. Mealy.
Storekeeper—A. E. Allday.
EQUIPMENT—Power machinery, cranes, welding machines, presses, rolls, air compressors, tools, etc.
PRODUCTS—Boilers, tanks, breechings, stacks, general plate work.
Incorporated—$60,000.
Railroad—Long Island.

COLE MFG. CO., R. D., Newman, Ga.
PRODUCTS—Structural steel iron work, boilers, tanks.

COLE, W. L., Ishpeming, Mich.
PRODUCTS—Boiler repairs and plate work.

COLLINS BOILER CO., JOHN H., 22 Walnut St., Amsterdam, N. Y.

COLLINS IRON WORKS, Long Island City, N. Y.
PRODUCTS—Steel plate construction.

COLLINS IRON WORKS, Phelps, N. Y.
PRODUCTS—Boilers.

COLLINSVILLE MFG. CO., 1009 E. Front St., Fort Worth, Tex.
PRODUCTS—Tanks and steel work.

COLONIAL IRON WORKS CO., THE, 17643 St. Clair Ave. & N. Y. C. R. R., Cleveland, O.
Pres., Treas., Pur. Agt. and Gen. Mgr.—Linoel M. Stern
Sec. and Chief Engr.—Julius H. Petrosky.
Mgr. Const. and Struct. Engr.—Herman Swingley.
EQUIPMENT—Two 5-ton 3-motor traveling cranes; four 3-ton 2-motor traveling cranes; six 2-ton 25-motor jib cranes; ½-inch plate bending rolls, lathes, 8x 8x¾; angle shears, shapers, plate bending brake, 3 arc welding machines, 1½-inch plate shears, 300 hp. power machinery.
PRODUCTS—Fabricators of plate and structural steel.
Capacity—3,000 tons of fabricated work annually.
Capital—$125,000; 500 shares no par value.
Railroads—N. Y. C., private switch with overhead traveling crane.

COLORADO IRON WORKS CO., 33rd and Wynkoop Sts., Denver, Col.

COLUMBIA BOILER WORKS, Columbia, Pa.

COLUMBIANA BOILER CO., 207 Railroad St., Columbiana, O.
Pres.—Jacob Detwiler.
Vice Pres.—Alfred Barrow.
Treas., Pur. Agt. and Gen. Mgr.—John Barrow.
Asst. Treas. and Sec.—R. J. Barrow.
Asst. Gen. Mgr.—Clyde Barrow.
PRODUCTS — Steel plate construction, riveted or welded, forge fire hammer welding a specialty.
Incorporated—$300,000.
Railroad—Penna. Lines, P. Ft. W. & C.

COLUMBIA IRON WORKS, 721 Reading Rd., Cincinnati, O.
PRODUCTS—Structural steel work.

COLUMBIAN STEEL TANK CO., 1409-1561 W. 12th St., Kansas City, Mo.
Pres.—A. A. Kramer.
Vice Pres. and Gen. Mgr.—C. A. Kramer
Vice Pres.—Wm. Kramer.
Treas.—W. A. Kramer.
Asst. Treas.—J. Brosman.
Pur. Agt.—J. Merl.
Sales Mgr.—F. C. Buchanan.
Asst. Gen. Mgr.—E. E. Wild.
Plant Mgr.—J. M. Culver.
Mech. Engr.—R. D. George.
PRODUCTS—Steel tanks, belted, welded, riveted.

COMMERCIAL BOILER WORKS, 53 W. Lander St., Seattle, Wash.

COMMERCIAL STEEL WORKS, 110-12 No. 9th St., St. Louis, Mo.
Pres.—Miss C. O. Joerder.
PRODUCTS—Tanks, barrels, portable garages, ash pits, coal chutes.

CONEY & CO., R. J., 1646 4th Ave., Charleston, W. Va.
PRODUCTS—Steel fabrication.

CONLEY, T. F., 46 Tilden St., Tiffin, O.
PRODUCTS—Boiler repairs and steel plate work.

CONNECTICUT MARINE BOILER WORKS, Longbrook Ave., Stratford, Conn.
Pres., Gen. Mgr. and Struct. Engr.—W. G. Wilson.
Sales Mgr.—W. K. Blair.
Mech. Engr.—George Boyle.
Foreman Repairs—J. Bayuzick.
PRODUCTS—Boilers, tanks, carrier system for loom warps, manufacturing Wilson Supreme Candy Coolers.
Railroads—Railroad siding on N. Y. N. H. & H. R. R.

CONNELLSVILLE IRON WORKS, Connellsville, Pa.

CONNELLY BOILER CO., THE D., Ivanhoe Rd. and N. Y. C. & St. L. Ry., Cleveland, O.
Pres. and Treas.—Wm. C. Connelly.
Vice Pres. and Engr.——Lawrence E. Connelly.
Supt.—Christian E. Schafer.
Pur. Agt.—D. C. Reagan.
PRODUCTS—Water tube boilers in units from 2,000 sq. ft. to 43,000 sq. ft. heating surface and pressures up to 600 lb.

CONNERY & CO., 4000 No. Second St., Philadelphia, Pa.
Pres.—Wm. M. Connery.
Vice Pres.—Melville P. Parker.
Treas. and Sec.—Edgar C. Aucott.
Asst. Treas., Asst. Sec. and Pur. Agt.—Wm. B. Roberts.
Sales Mgr.—Charles B. Nicholson.
Supt.—Albert D. Stewart.
Chief Draftsman—W. F. Chidisker.
PRODUCTS—Steel plate construction.
Capacity—5,000 tons.
Incorporated—$50,000.
Railroad—Reading.

CONROY BOILER & TANK WORKS, INC., 2213-15 W. 47th St., Chicago, Ill.
Chairman—T. R. Hinchion.
Pres., Treas., Pur. Agt. and Gen. Mgr.—Joseph F. Murphy
Sec. and Sales Mgr.—Thomas A. McCann.
Mgr. Const. and Supt.—John Smith.
Chief Draftsman—Eric Sandberg.
Mech. and Power Engr.—B. Sunderman.
PRODUCTS—General boiler work, steel tanks, smoke stacks, erectors, steel plate fabricators, electric and acetylene welding.
Incorporated—$10,000.

CONSOLIDATED BOILERS CORPORATION, Milton and Cross Sts., Benton Harbor, Mich.
Pres. and Pur. Agt.—Geo. W. Larkworthy.
Vice Pres.—S. E. Merrell.
Treas. and Sec.—W. F. Benning.
Sales Mgr.—A. A. Baushke.
Gen. Mgr.—H. C. Baster.
Supt.—E. Bergstrom.
PRODUCTS—Low pressure steel boilers.
Incorporated—$100,000.
Issued—$55,000.
Railroad—Mich. Central, Big Four, Pere Marquette, Goodrich Transit Co., Benton Transit Co.

CONSOLIDATED SHIPBUILDING CORP., W. 177th St. and Harlem River, Morris Heights, New York, N. Y.
Pres.—John J. Amory.
Vice Pres. and Treas.—William J. Parslow.
Sec., Pur. Agt. and Gen. Mgr.—Bruce Scrimgeour.
Supt.—Albert Christen.
Chief Engr.—W. E. Baldwin.
Chief Draftsman—H. W. Patterson.
PRODUCTS—Yachts and commercial vessels.
Incorporated—$600,000.
Railroad—N. Y. C., private siding.

CONTINENTAL BRIDGE CO., 460 Monadnock Block, Chicago, Ill. Plant—Peotone, Ill.
Pres. and Gen. Mgr.—H. E. Hughes.
Vice Pres.—G. H. Eichenlaub.
Treas. and Sec.—J. G. Campbell.
Supt.—O. C. Cherry.
Chief Draftsman—E. C. Miller.
Blacksmith—Carl Koehn.
Foreman—G. W. Imholz.
PRODUCTS — Fabrication of structural steel, bridges, derricks, etc.
Capacity—450 tons per month.
Incorporated—$150,000.
Issued—$95,300 (authorized $150,000), bonds, $53,000.
Railroad—Illinois Central R. R. Co.

CONTINENTAL IRON WORKS, Calyer and West Sts., Brooklyn, N. Y.
Mech. Engr.—Henry P. Merriam.

CONVERSE BRIDGE & STEEL CO., Anderson Ave. and Buckley St., Chattanooga, Tenn.
Pres.—D. Hewitt Wood.
Vice Pres. and Gen. Mgr.—P. H. Wood.
Sec. and Pur. Agt.—Carl J. Willhoit.
Mgr. Const.—R. O. Benner.
Supt.—W. D. Clarkson.
Chief Engr.—J. E. Morelock.
Struct. Engr.—E. F. Chobot.
Chief Draftsman—E. B. Seay.
PRODUCTS—Fabricated structural steel.
Capacity—10,000 tons per year.
Incorporated.

COOKE BOILER WORKS, INC., 265 Nicoll St., New Haven, Conn.
Pres.—I. S. Fishblatt.
Vice Pres.—P. O. Cooke.
Treas., Sec. and Gen. Mgr.—Eugene L. Cooke.
Asst. Gen. Mgr. and Mech. Engr.—F. X. Dugett.
Supt.—J. B. Davis.
PRODUCTS — Steel plate construction, boilers, tanks, stacks, etc.
Incorporated—$50,000.
Issued—$10,000.

COOKE & SONS, INC., JOHN K., Colfax Ave., Clifton, N. J.
Pres.—Watts Thome Cooke.
Treas. and Sec.—John R. Cooke.
PRODUCTS—Structural steel and iron work.
Railroads—D. L. & W., Erie.

COOKE, WALTER, 197 Middle St., New Bedford, Mass.
PRODUCTS—Boilers, etc.

COOPING BOILER WORKS, W. P., 439 No. St. Patrick Co., New Orleans, La.

CORBETT BOILER & TANK CO., 1332 Cortland St., Chicago, Ill.
PRODUCTS—Boilers and steel fabricators.

CORNELL IRON WORKS, INC., 3620 13th St., Long Island City, N. Y.
Pres. and C. E.—M. L. Cornell
Vice Pres.—J. B. Cornell
Sales Mgr.—M. C. La Barr.
Supt.—Emil Gerber.
Chief Draftsman—A. H. Graff.
PRODUCTS—Rolling steel shutters and doors.
Capacity—25 doors per day.
Incorporated—$138,000.

CORRY STEAM BOILER WORKS, Corry, Pa.
Proprietors—James and Thomas Mead.

COTTER, INC., JOSEPH, Middlesex Ave., Somerville, Mass.
PRODUCTS—Tanks, boilers and repairs.

COUGHENOUR BOILER WORKS, 13th and Ohio River, Huntington, W. Va.

COUSINS & SON, J. D., 326 Hopkins Ave., Buffalo, N. Y.
PRODUCTS—Boilers, sheet metal work.

COX CO., ABRAM, 2301 N. American St., Philadelphia, Pa. Plant: Lansdale, Montgomery County, Pa.
Pres.—Abram C. Mott, Jr.
Vice Pres.—Louis J. Odets.
Treas.—W. S. Affleck.
Sec.—Merle E. Mott.
Pur. Agt.—C. B. Brackendorff.
Supt.—E. C. Nigg.
PRODUCTS—Manufacture of C. J. low pressure boilers, furnaces.
Capacity—10,000 tons per year.
Railroad—Reading Co.

CRAIG BROTHERS, Fargo, No. Dakota.
PRODUCTS—Boiler repairs, sheet metal work.

CRAMPTON & SON, Covington, O.
PRODUCTS—Boiler repairs, sheet metal work

CRAVEN'S STEAM BOILER WORKS, 237 Indian St., Brooklyn, N. Y.

CRAWFORD-VAUGHAN BOILER & LOCOMOTIVE WORKS, 1401 to 1430 Avenue E, P. O. Box 329, Birmingham, Ala.
Pres.—J. B. Crawford.
Treas.—E. B. Vaughan.
Pur. Agt.—E. B. Crawford, Jr.
Supt.—J. B. Crawford, Jr.
Foreman Mach.—E. D. Cain.
PRODUCTS—Plate and structural boiler, locomotives, blast furnaces and general jobbing.
Partnership—$300,000.
Railroad—Birmingham Branch connecting all railroads.

CREAM CITY BOILER CO., 37th and Lapham Ave., Milwaukee, Wis.

CREIGHTON BOILER & WELDING WORKS, East End Hawthorne Bridge, Portland, Ore.
Prop. and Mgr.—W. H. Creighton.
PRODUCTS—Tank and boiler work, electric welding.

CRESCENT IRON WORKS, Coalinga, Cal.
PRODUCTS—Boilers, tanks and steel work.

CRESSWELL IRON WORKS, SAMUEL J., 23rd and Cherry St., Philadelphia, Pa.

CROOK CO., H. E., 28 Light St., Baltimore, Md.
PRODUCTS—Steel plate work.

CROSS ENGINEERING CO., Carbondale, Pa.
Pres.—J. W. Howarth.
Vice Pres.—J. H. Law.
Sec.-Treas.—H. S. Woodward.
PRODUCTS—Perforated sheet metals, coal preparing machinery, riveters, chain, stacks, troughs, buckets, screens, elevators, conveying chain.

CROWLEY BOILER WORKS, 705 Adrian Ave., Jackson, Mich.

CROWN IRON WORKS, 1229 Tyler St., N. E., Minneapolis, Minn.
Pres.—J. W. Hernlund.
Vice Pres.—E. L. Anderson.
Treas. and Sec.—B. G. Johnson.
Asst. Sec. and Pur. Agt.—L. S. Smith.
Sales Mgr.—W. D. Timperley.
Supt.—A. J. Anderson.
Chief Draftsman—W. T. Burrill.
PRODUCTS—Structural and ornamental fences.
Incorporated.
Railroad—N. Pac.

CRUICKSHANK IRON WORKS, Dineen St. and S. A. L. Ry., Richmond, Va.
Pres.—J. S. Cruickshank.
Gen. Mgr.—J. W. Garbett.
PRODUCTS—Structural steel and ornamental iron for buildings.
Capacity—80 tons per month.
Ownership—Private.

CRUSE-KEMPER CO., So. Main St., Ambler, Pa.
Chairman—S. E. Fairchild, Jr.
Pres. and Asst. Treas.—Frank G. Deker.
Vice Pres., Gen. Mgr. and Asst. Sec.—John H. Blanke.
Treas. and Sec.—F. Regnault Fairchild.
Pur. Agt.—J. W. Cassel.
Storekeeper—Robert Stevens
Supt.—Charles E. DuBois.
Chief Draftsman—Harry Shaw.
Power and Elec. Engr.—Clarence Ferguson.
Foreman Blacksmith—Michael Brosz.
Foremen—Clarence Lull and Frank Drake.
PRODUCTS—Steel plate work, gas holders, tanks, flues.
Capacity—7,500 tons annually.
Incorporated—$500,000.
Railroad—Reading, two sidings.

CULBERT'S SONS, WM., 127 2nd Ave., So. Nashville, Tenn.

CULLEN CO., 106 8th Ave., Clinton, Ia.
Pres.—J. T. Cullen.
Vice Pres.—K. M. Cullen
Treas., Sec. and Pur. Agt.—J. T. Cullen, Jr.
PRODUCTS—Boilers, smokestacks, breechings, tanks, coal bunkers, heavy and light steel plate work.
Incorporated—$50,000.
Railroads—C. & N. W., C. B. & Q., C. M. & St. P., C. R. I. & P., C. D. & M.

CULLUM & CO., 21 Cornell St., Kingston, N. Y.
PRODUCTS—Boilers and repairs.

CUMMINGS & CO., WM., 2656 Salmon St., Philadelphia, Pa.
PRODUCTS—Boilers, steel plate work.

CURTIS & MINCK, INC., (Formerly Lasker & Minck), 53 Park Place, New York, N. Y.
Pres.—Asst. Treas. & Gen. Sales Mgr.—Peter Minck.
Vice Pres and Treas.—Harold E. Curtis.
Sec.—E. M. Johnson.
PRODUCTS — Steel plate construction, stacks, tanks, hoppers, coal bunkers.
Incorporated.
Railroads—Penna., Reading.

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DAHLQUIST MFG. CO., 49 W. 3rd St., South Boston, Mass.
PRODUCTS—Boilers, repairs, etc.

DAIGLE IRON WORKS, 1967 Lafayette Blvd., Detroit, Mich.

DALLAS BOILER & TANK CO., 3214 Hickory St., Dallas, Texas
Pres. and G. M.—H. L. Hinckley
Vice Pres.—L. A. Price
Treas.—J. H. Hinckley
Sec.—Raymond Hinckley
EQUIPMENT—Boiler shop equipment consisting of rolls, punches, shears, acetylene and electric welding
PRODUCTS — Manufacturers of stacks, tanks, and sheet iron work of all kinds
Railroad—On G. C. & S. F. track

DALY & SONS, M. J., 451 Bank St., Waterbury, Conn.
PRODUCTS—Steel tanks

DANIELS ORNAMENTAL IRON & WIRE CORP., 552 Lake St., Birmingham, Ala.
Pres.—W. H. Daniels
Incorporated—$25,000

DARBY BOILER WORKS, 226 Queirolo St., Los Angeles, Cal.
PRODUCTS—Steel plate work, stacks

DARBYSHIRE-HARVEY IRON & MACH. CO., Florence and E. 6th St., El Paso, Texas
PRODUCTS—Tanks and steel work

DAUCHY IRON WORKS, 223 W. Illinois St., Chicago, Ill.
Pres. and Treas.—Samuel Dauchy
Vice Pres.—George V. Dauchy
Supt.—Axel Becker
PRODUCTS—Miscellaneous steel, building work, power house equipment, jail work

DAVENPORT LOCOMOTIVE & MFG. CORP., Davenport, Iowa
Pres. and G. M.—E. Parmly, Jr.
Vice Pres. and Asst. G. M.—John P. Case
Sec.-Treas.—Charles Pasche
Pur. Agt.—A. T. Sebelien
Sales Mgr.—P. B. Ellison
Supt. Mec. and Power Engr.—Chas. Speck
Chief Engr.—H. A. Bergert
M. M.—Henry C. Happ
Elec. Engr.—J. C. Huber
Foreman Mach.—Roy Roth
Foreman Fdry.—A. P. Vreeland
Foreman Forge Shop—H. R. Ellis
Foreman Boiler Shop—Wm. F. Beig
Foreman Erecting Floor—P. Hackendorf
Foreman Die Room—Walter E. Specht
PRODUCT—Manufacturers of steam, gas-electric and gasoline industrial locomotives, boilers and tanks, grey iron castings, forgings, machine work
Railroads—R. I., C. M. & St. P., C. B. & Q.

DAVENPORT WELDING & BOILER CO., 515 Tremont Ave., Davenport, Iowa
Partnership by J. J. Marinan & J. J. Layden
Chief Draftsman—Frank Feeney
Foreman Repairs—Thomas Layden
PRODUCTS — Acetylene welding, boiler tubes, cast iron, malleable iron, aluminum, brass and copper

DAVIDSON HEATING & CONSTRUCTION CO., Hanover, Pa.

DAVIS BOILER WORKS, JOSEPH, 772 Andrews Ave., Youngstown, Ohio

DAVIS IRON WORKS, 825 So. Center St., Stockton, Cal.
PRODUCTS—Boilers and steel plate work

DAVIS & SON CO., J. F., De Pere, Wis.
PRODUCTS—Boiler works

DAVIS & FARNUM ENG. WORKS, INC., Foundry Ave., Waltham, Mass.
Pres.—D. R. Donaldson
Treas. and G. M.—John M. Webster
Supt.—G. R. Hughes
PRODUCTS—Steel plate, gas plant equipment, large special C. I. castings
Railroads—B. & M. siding, six miles to Boston, having four railroads and steamship lines

DAVIS WELDING & MFG. CO., THE, 1110 Richmond St., Cincinnati, Ohio
Pres., Gen. and Sales Mgr. — Augustine Davis, Jr.
Vice Pres.—C. L. Brand
Sec. and Treas.—Arthur L. Betts
Pur. Agt.—Edward W. Schutte
Supt.—H. K. Reilly
C. E. and Chief Draftsman—Paul S. Shield
PRODUCTS—Gasoline truck tanks, lubricating oil cans and gasoline measuring buckets
Capacity—200 jobs per month
Incorporated—$500,000
Issued—$150,000
Railroad—B. & O., private switch

DAYTON FABRICATED STEEL CO., 720 E. Monument Ave., Dayton, O.
Pres.—Wm. H. Ortman
Sec., Treas. and Mgr.—R. S. Shonk
PRODUCTS—Fabricated steel doors, steel sash, fire escapes, etc.
Incorporated—$15,000

DAYTON STRUCTURAL STEEL CO., THE, Dayton, O.
Pres.—J. A. Burger
Vice Pres., Pur. Agt., Supt. and Storekeeper—C. J. Burger
Vice Pres.—F. D. Slutz
Treas.—M. M. Kindig
Sec., Pur. Agt. and G. M.—F. C. Worbs
Structural Engr. and Draftsman — B. H. Thomas
Foreman—Wm. Martin
PRODUCTS—Fabricated structural steel
Capacity—300 tons per month
Capital—$125,000; issued $69,500
Railroad—B. & O.

DEATON & ROBINSON BOILER & WELDING WORKS, 426 Howard St., New Orleans, La.

DECATUR IRON AND STEEL CO., Owned and Operated by Decator Cornice & Roofing Co., Inc., Albany Station, Decatur, Ala.
Pres.—L. W. Borton

Vice Pres.—R. L. Stephenson
Treas.—O. C. Parker
Sec., Pur. Agt., Gen. and Sales Mgr.—Henry R. Davis
Supt.—W. R. Johnson
Struct. Engr.—L. L. Burnet
Chief Draftsman—E. C. Graham
Orn. Engr.—Jas. Wilson
Foreman Struct.—W. A. Barton
Foreman Ornamental—J. I. Deering
EQUIPMENT—Structural, ornamental and sheet metal
Capacity—800 tons structural per month
Incorporated—$100,000
Railroad—L. & N., San. and Tenn. River

DECKARD STEEL & IRON CO., 408 No. Smelter Ave., Pittsburg, Kan.
PRODUCTS—Boiler, steel tank and repairs

DECKER & KAISER, 228 No. Main St., Adrian, Mich.
PRODUCTS — Boilers, repairs and steel plate work

DeCROUPET IRON WORKS, 1360 Monroe St., Detroit, Mich.
PRODUCTS — Structural steel and iron work

DEILY & HOWLER MFG. CO., 39 Laurel St., Philadelphia, Pa.
PRODUCTS—Steel plate work

DELANEY & CO., P., Renwick St., Newburgh, N. Y.
Pres.—W. L. Delaney
Vice Pres.—J. A. Delaney
Pur. Agt.—W. A. Toohey
Mech. Engr.—B. M. Montfort

DELAWARE BAY SHIPBUILDING CO., Leesburg, Cumberland Co., N. J.
Pres.—Chas. E. Sharp
Vice Pres.—Z. C. Sharp, Jr.
Vice Pres.—J. S. Newcomb
Treas., Sec., P. A. and Supt.—Willis D. Robbins, Jr.
Gen. Mgr. and Foreman Repairs — A. C. McClain
Chief Engr.—Burrows Shaw
Blacksmith—Samuel Chambers
EQUIPMENT—Two marine dry docks
PRODUCTS—Building, repairing of boats, wharf building, pile-driving
Capacity—Two marine dry docks
Issued—$50,000
Railroad—Excellent, Penna. R. R.

DE LOACH MILL MFG. CO., Bridgeport, Ala.
PRODUCTS—Boilers

DENVER STEEL & IRON WORKS, P. O. Box 1196, West Colfax and Larimer Sts., Denver, Colo.
Prop.—John A. Crook
Gen. Mgr.—H. H. Wolleson
Supt.—Bruce Stanton
Chief Engr.—Oliver W. Childs
PRODUCTS—Structural steel for bridges and buildings, culverts
Capacity—3,000 tons annually

DES MOINES STEEL CO., 4th and Tuttle, Des Moines, Ia.
Pres. and G. M.—J. E. Van Liew
Vice Pres.—John L. Gillispie
Treas.—L. A. Peck
Sec., P. A. and C. E.—A. W. Lee
Sales Mgrs.—H. H. Hahn and O. F. Tripplett
Mgr. Construction—S. Witmer
Supt.—John Hartney
Struc. Engr. and Chief Draftsman—B. R. Kenworthy
EQUIPMENT — Complete shop and field equipment for fabricating and erecting all classes of structural and reinforcing steel, Page fence, bridges, culverts, etc.
PRODUCTS — Fabricated structural steel, reinforced steel and steel warehouse
Capacity—9000 tons per year
Incorporated—$300,000
Railroads — Private switch track, direct connections with C. R. I. & P., C. G. W., C. & N. W., Wabash, M. & St. L., C. B. & Q., etc.

DETROIT BRIDGE & IRON WORKS, River Rouge, Detroit, Mich.

DETROIT RANGE & STEEL BARREL CO., 375 Phillips Ave., Detroit, Mich. Plant: Toledo, O.
Pres.—Edward W. Stoddard
Vice Pres.—Divie B. Duffield
Vice Pres.—Frederick G. Wacker
Treas.—George A. Moore
Sec.—Thos. M. Parker
Pur. Agt.—Cleo Brown
Gen. Mgr.—George A. Moore
Mech. Engr.—A. C. Vick
EQUIPMENT—Shearing, rolling, stamping, riveting, welding and galvanizing equipment up to ¼ inch
PRODUCTS—Automatic water heaters, steel barrels, etc.
Incorporated — $1,000,000; issued, $700,000
Railroads—Sidings at both plants

DETROIT SHEET METAL WORKS, 1342 Milwaukee Ave. E., Detroit, Mich.
Partners—W. V. Baker and Wm. Ehmka
Pur. Agt.—H. W. Peters
Storekeeper—Stanley Juckno
Sales Mgr.—M. J. Whiting
Supt.—Wm. Hayes
Chief Engr.—P. Roesmer
PRODUCTS—Cleaning equipment, drying ovens, heating and ventilating equipment, metal parts, washing machines, conveyors

DETROIT SHIPBUILDING CO., Foot of Orleans, St., Detroit, Mich.
Pres.—G. A. Tomlinson

DEWEY BROTHERS, Goldsboro, N. C.
Gen. Mgr.—G. S. Dewey
Supt. Plant—J. R. Raper
Supt. Struct. Steel—J. F. Greene
PRODUCTS — Machine shop, foundry, structural steel
Railroads—A. C. L., Southern, Norfolk & Southern

DIETRICH BROTHERS, Pleasant and Davis Sts., Baltimore, Md.
Pres.—A. J. Dietrich
Sec.—J. L. Pennington
Pur. Agt.—F. H. Carter
Sales Mgr.—A. M. Pfeiffer
Gen. Mgr.—J. C. Dietrich
Supt. Shops—Robert Boss and Arthur Lego
Chief Engr.—Wm. C. Schnabel
Chief Draftsman—F. C. Williams
PRODUCTS—Structural steel and ornamental iron
Railroads—Penna., B. & O.
Partnership

DILDINE BRIDGE & IRON CO., Hannibal, Mo.
Sec.—H. Denkler
Gen. Mgr. and Pur. Agt.—E. L. Dildine
Storekeeper and Foreman—John Dryden
Sales Mgr. and Chief Engr.—R. R. Dildine
Chief Draftsman—G. L. McCann
Power Engr.—Fred Bouchle
Foreman—John Hearn
PRODUCTS — Steel bridges, structural steel and mill buildings
Ownership—Private
Capacity—4,000 tons
Capital—Invested $100,000
Railroads—Wabash, C. B. & Q., St. L. & H.

DILLON STEAM BOILER WORKS, D. M., Crocker St., Fitchburg, Mass.
Pres.—D. Frank Dillon
Vice Pres., Treas., Gen. and Sales Mgr.—Fred N. Dillon
Pur. Agt.—B. G. Anderson
Supt.—T. B. Sweeney
Chief Draftsman—J. T. Joyce
M. M.—J. B. McDowell
PRODUCTS — Steam boilers, tanks, steel plate work
Capacity—Boiler a day
Incorporated—$300,000
Railroads—B. & M., N. Y., N. H. & H.

DINN & CO., P. J., 278 Dover St., Boston, Mass.
Pur. Agt.—Peter De Vincent
Gen. Mgr.—Arthur R. Dinn
Asst. Gen. Mgr.—M. A. Sullivan
Mgr. Construction—Chas. A. Murphy
PRODUCTS—Iron and wire fences

DIXIE CULVERT & METAL CO., East Point, Ga.
PRODUCTS — Steel tanks and steel culverts

DIXON BOX IRON WORKS, Denver, Colo.

DOBBIE FDRY. & MACHINE CO., Seneca Falls, N. Y.
Mgr.—J. Dobbie, Sr.

DODGE MFG. CO., Mishawaka, Ind.
PRODUCTS—Transmission machinery and steel plate work

DOLLINGER, JOHN, JR., 1001 Ry. Ave., Beaumont, Tex.
PRODUCTS—Tanks, boilers

DOMINION BRIDGE CO., LTD., Montreal, Can. Plant: Lachine, Quebec
Pres. and Mng. Director—G. H. Duggan
Vice Pres.—W. F. Angus
Vice Pres.—F. L. Wanklyn
Asst. Treas. and Sec.—F. W. Evens
Pur. Agt.—E. P. Waters
Chief Acct.—J. L. Heald
Gen. Mgr.—N. W. Warren
Asst. to Gen. Mgr.—A. H. Cowie
Works Mgr.—H. W. McMillan
Mgr. Constr.—L. R. Wilson
Supt. Erection—D. Bell
Contract. Engr.—W. Taylor Bailey
Chief Engr.—F. P. Shearwood
Supt. Shops—H. W. McMillan
Struct. Engr.—D. C. Tennant
Chief Draftsman—Alex. Peden
Mech. Engr.—F. Newell
Elec. Engr.—C. Paxton
M. M., Foreman Mach.—J. B. Leclaire
Storekeeper—G. F. Elliott
PRODUCTS — Fabricated steel work, cranes, plate and tank work
Capacity—120,000 tons per annum
Incorporated—$6,500,000
Railroads—Direct connections C. N., C. P., Montreal tramways, own wharf via Great Lakes shipments

DONOHUE'S SONS, F. J., 108 Wallabout St., Brooklyn, N. Y.
PRODUCTS—Boiler repairs, tanks, etc.

DONOVAN BOILER WORKS, INC., Camden Ave., Parkersburg, W. Va.
Pres.—Hugh Donovan, Jr.
Vice Pres. and Treas.—Robert Donovan
Sec.—J. G. Bohn
Supt.—E. A. Fox
PRODUCTS — Oil country boilers, steel storage tanks
Railroad—Siding into plant
Incorporated

DONOVAN WIRE & IRON CO., Chicago St. and W. & L. E. R. R., Toledo, O.

DORETHY, INC., WM. S., 357 West St., New York, N. Y.
Pres.—W. S. Dorethy
Vice Pres. and Treas.—C. W. Tesler
Sec. and Pur. Agt.—H. D. Fisher
Supt.—S. Henderson
PRODUCTS—Steamship repairs, forgings, boiler repairs, heavy and light sheet iron work
Incorporated

DOUGHERTY CO., M. J., 173 W. Washington St., Chicago, Ill.
PRODUCT—Fabricated pipe

DOVER BOILER WORKS, 50 Church St., New York, N. Y. Plant: Dover, N. J.
Pres.—Wm. F. Birch
1st Vice Pres.—Wm. D. Birch
2nd Vice Pres., Gen. and Sales Mgr.—W. E. Goldsworthy
3rd Vice Pres. and Mgr. Const.—Edward Beatty
Treas. and Sec.—Floyd M. Diehl
Asst. Treas., Asst. Sec. and P. A.—Peter Vanderwolf

Supt.—Xavier Boisvert
Chief Engr.—S. G. Benham
Structural Engr.—Benjamin Hosking
PRODUCTS—Boilers, tanks, stacks, flues, pinstocks, gas producers
Capacity—5,000 tons annually
Capital—$500,000, all issued
Railroads—D. T. & W., N. J. C.

DOWMAN-DOZIER MFG. CO., Murphy and Dill Ave., Atlanta, Ga.
PRODUCTS—Steel works

DOWNEY BOILER WORKS, T. F., 2600-10 West Grand Ave., Chicago, Ill.
Pres.—T. F. Downey
PRODUCTS—Boilers, heaters, water-wall tanks, cratings, grates, jacket kettles, hoppers, electric welding

DOWNINGTON IRON WORKS, Wallace Ave., Downington, Pa.
Chairman—P. L. Plank
Pres., Pur. Agt. and G. M.—P. M. Davis
Vice Pres. and Sales Mgr.—A. C. Johnson
Treas.—P. L. Plank
Sec.—F. B. Diffenderfer
Mgr. Const. and Supt.—R. H. Lillard
Chief Engr.—R. C. Wilson
M. M.—Chas. Hamilton
Power and Elec. Engr.—F. Baldwin
Foreman—E. V. Starner
Foreman—F. McQueen
PRODUCTS—Boilers, tanks and steel plate fabrication
Capacity—12,000 tons per year
Incorporated—$65,000 pref.; $114,000 common
Railroads—P. R. R. and P. & R.

DRAKE, H. J., Bushnell, Ill.

DRAKE, WILLIAMS, MOUNT CO., 23rd Hickory, and U. P. R. R., Omaha, Neb.
Pres. and Sec.—Hugh W. Williams
Vice Pres. and Treas.—E. O. Mount
Storekeeper—Andrew W. Williams
P.A. and Asst. G. M.—Walter H. Williams
PRODUCTS—Boiler, tank and sheet iron work; dragline buckets
Capacity—300,000 to 350,000
Incorporated—$200,000
Railroad—On Union Pac. R. R.

DRAPER MFG. CO., THE, Cleveland, O.
Pres.—C. T. Draper
PRODUCTS—Steel barrels

DRAVO CONTRACTING CO., Dravo Bldg., 303 Penn Ave., Pittsburgh, Pa.
Pres.—F. R. Dravo
Vice Pres.—R. M. Dravo
Vice Pres.—V. B. Edwards
Vice Pres.—E. T. Gott
Vice Pres.—J. S. Miller
Vice Pres.—Joseph W. Connell
Treas.—L. A. Mertz
Sec.—Wm. H. Fowler
PRODUCTS—Steel barges, dredges, steam boats, diesel boats, derrick boats, etc.; cranes and structural work
Capacity—20,000 tons per year
Incorporated—1901, N. J.; 1913, Pa.
Railroads—Penna., P. & L. E., P. C. & Y. connecting R. R., Ohio River Connecting R. R.

DREIER IRON WORKS, INC., 338 E. 59th St., New York. N. Y. Plant: Ave. D and Drydock St.
PRODUCTS—Steel and ornamental iron work

DROEGER & BREEN, 16 Koehne St., Indianapolis, Ind.

DRUMMOND MFG. CO., INC. (Formerly Louisville Tank & Mfg. Co.), 1214 W. Main St., Louisville, Ky.
Pres. and Treas.—E. M. Drummond
Vice Pres., Pur. Agt. and G. M.—J. A. Drummond
Sec.—R. P. Drummond
Asst. Gen. Mgr.—R. S. Johnson
PRODUCTS—H. R. T. boilers, stacks, tanks, gray iron and semi-steel castings, steel axles
Railroads—I. C., Penna., Sou., B. & O., Monon., L. & N., L. H. & St. L., Big Four, C. & O.

DRY DOCK IRON WORKS, Port Huron, Mich.

DUBUQUE BOAT & BOILER WORKS, Foot 3rd Ave., Dubuque, Iowa
PRODUCTS—Steel barges, boilers

DUFFIN IRON WORKS, 87 W. Van Buren St. Plant: 4837 So. Kedzie Ave., Chicago, Ill.
PRODUCTS—Structural steel work

DUFOUR, VICTOR, St. Agatha, Me.
PRODUCTS—Boiler repairs and steel work

DUGOUR, MICHAEL, St. Agatha, Me.
PRODUCTS—Boiler repairs and sheet metal work

DULUTH BOILER WORKS, 415 Lake Ave., So. Duluth, Minn.

DUNCAN CO., J., 39 Parlin St., Everett, Mass.
Pres., Pur. Agt.—Walter H. Duncan
Treas. and Gen. Mgr.—Fred G. Duncan
Sec.—Herbert L. Truesdale
PRODUCTS—Overhead tram rail systems, general iron work, galvanizing
Incorporated—

DUNDON IRON WORKS, 225 Folsom St., San Francisco, Cal.
Props.—John E. Buckley & Sons
Sec.—W. J. Buckley
Gen. Mgr.—John E. Buckley
Asst. Gen. Mgr.—John E. Buckley, Jr.
Foreman—J. M. Rafferty
PRODUCTS—Boilers, tanks, cannery machinery, plate work

DUPLEX MFG. CO., 62nd St. and Butler Ave., Superior, Wis.
Pres. and G. M.—V. L. Andrew

Vice Pres.—M. M. Andrew
Sec. and Treas.—C. A. Cooley
PRODUCTS—Steel windmill towers, windmills and pumps
Incorporated—$200,000
Railroads—No. Pac., Gt. Northern

DUSSELL IRON WORKS, ALEX., 41 Erator St., New Orleans, La.
PRODUCTS—Boiler repairs, steel tanks

DUTTON CO., C. H., 632 Grace St., Kalamazoo, Mich.
Pres.—D. C. Osborn
Vice Pres.—F. E. Dutton
Treas.—F. S. Parsons
Sec.—D. P. Osborn
Pur. Agt. and Gen. Mgr.—W. S. Gregg
Storekeeper—W. W. Beach
Supt.—W. S. McAleenan
Supt.—C. Reisterer
Chief Draftsman—J. B. Muir
PRODUCTS—Boilers and steam engines
Incorporated—
Railroads—N. Y. C., Penna., C. K. S., G. T.

DUTWILER MFG. CO., 2637 E. 23rd St., Los Angeles, Cal.
PRODUCTS—Steel tanks

DUVALL & CO., GEORGE W., 900 E. Water St., Norfolk, Va.
PRODUCTS—Boilers, etc.

DYER BROTHERS, 17th and Kansas St., San Francisco, Cal.
PRODUCTS—Boilers, structural steel

DYKES IRON WORKS, INC., G. M., 3rd St. and 1st Ave., Miami, Fla.
PRODUCTS—Boilers, steel plate work and repairs

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EAGLE BOILER WORKS, 2142 Larimer St., Denver, Colo.
PRODUCTS—Boilers and repairs

EAGLE IRON WORKS, 850 DeKalb Ave., Brooklyn, N. Y.
PRODUCTS—Structural steel work

EAST BIRMINGHAM IRON ROOFING CO., 1518 Am. Trust Bldg., Birmingham, Ala.

EAST JERSEY PIPE CORP., 350 21st St., Paterson, N. J.

EAST SIDE BOILER WORKS, Foot E. Main St., Portland, Ore.

EAST SIDE BOILER WORKS, 486 2nd Ave., Oakland, Cal.
PRODUCTS—Boilers and repairs

EASTERN BRIDGE & STRUCTURAL CO., 88 Crescent St., Worcester, Mass.
Pres.—J. C. Stewart
Vice Pres. and Treas.—A. S. Miller, Jr.
Asst. Treas.—H. M. Richardson
Sec.—Chas. T. Tatman
Pur. Agt.—W. J. Montgomery
Sales Mgr.—S. Lund
Supt. of Struct. Shop—J. C. Calhoun
Supt. of Erect.—G. F. Martin
Struct. Engr.—L. W. West
Chief Draftsman—G. W. Pike
M. M.—Adam J. Mill
PRODUCTS—Structural steel fabrication
Capacity—12,000 tons per year
Incorporated—$75,000
Railroad—Boston & Maine

EASTERN STEEL CO., THE, Pottsville, Pa.
Receiver—E. L. Herndon
PRODUCTS—Structural shapes
Capacity—150,000 per year
Railroads—Penna. and Reading

EASTERN STRUCTURAL STEEL CO., 110 W. 40th St., N. Y. C., N. Y. Plant: Easton, Pa.
Pres.—N. P. Winters
Vice Pres.—T. M. Sales
Treas.—A. B. Leffler
Asst. Treas.—D. McGrath
Sec.—D. Weiss
Pur. Agt. and Prod. Mgr.—A. S. Haagman
Asst. Prod. Mgr.—F. Reibert
Supt. of Erect.—A. Felot
Field Engr.—R. Evell
PRODUCTS—Steel construction, steel fabrication, steel erection
Capacity—25,000 tons per year
Railroad—C. R. R. of N. J.

EBERMAN STEEL CO., 1103 18th St., N. W., Canton, O. Plant: Allen St., S. E.
PRODUCT—Structural steel

ECONOMY BOILER CO., Willmar, Minn.

ECONOMIC STEEL RACK CO., Bowdoin St., Everett, Mass.
Pres. and Sec.—A. M. Rich
Treas.—C. H. Young
PRODUCTS—Light structural steel, industrial equipment
Incorporated—
Railroad—B. & A., side track

EDGE MOOR IRON CO., Edge Moor, Del.
Pres. and Treas.—William F. Sellers
Vice Pres.—H. B. Bradford
Vice Pres.—F. G. Cox
Sec.—H. S. Garrett
Pur. Agt.—J. B. Morrow
Sales Mgr.—S. G. Bradford
Supt.—Charles Girvin
Chief Engr.—Wm. Bradford
Struct. Engr.—Philip Marquand
Chief Draftsman—J. P. Larosch
Foreman—A. H. Hughes
Foreman—I. W. Sidwell
PRODUCTS—Manufacture of water tube boilers
Railroad—Penna.

EDWARDS IRON WORKS, INC., 2025 So. Main St., South Bend, Ind.

Pres.—W. H. Edwards
Vice Pres.—I. E. Edwards
Treas. and Sec.—John S. Edwards
Supt.—Allen Summers
Supt.—L. L. Lane
Supt.—Chas. Clung
Struct. Engrs.—Hartley Anderson and L. A. Mahoney
Incorporated—$200,000
Railroads—Penna., N. Y. C., G. T., and Wabash

EDWARDS MFG. CO., INC., 529 Eggleston St., Cincinnati, O.
PRODUCTS—Steel tanks and steel plate work

EGGERS-SCHILLO CO., 364 No. Harding St., Chicago, Ill.
Pres. and Gen. Mgr.—E. J. Baldwin
Vice Pres.—Charles S. Schillo
Treas. and Sec.—John Eggers
Pur. Agt.—Wm. J. Drennan
Supt.—R. W. Pearce
Struct. Engr.—L. B. Sairs
Foreman Struct.—F. B. Kleiner
Foreman Ornamental—John A. Mark
PRODUCTS—Structural and ornamental iron work
Capacity—3,000 tons annually
Incorporated—$75,000

EICHLEAY CO., JOHN, JR., 20th and Wharton Sts., S. S., Pittsburgh, Pa.
PRODUCTS—Structural steel work and removal of buildings, etc.

EIDLITZ & ROSS, 110 W. 40th St., New York, N. Y.
PRODUCTS—Structural steel

ELECTRIC BOILER CORP., 491 Main St., Cambridge, Mass.

ELGIN STREET SWEEPER CO., Elgin, Ill.
Pres.—D. M. Todd
Sec. and Treas.—C. A. Whiting
Gen. Supt.—C. E. Steve
Pur. Agt.—E. H. Lemke
Mech. and Chief Engr.—R. E. Evans
Supt. Mach. Shop—F. J. Frike
PRODUCTS—Motor-driven street sweepers, auto-eductors for cleaning catch basins

ELIZABETH IRON WORKS, 1110 E. Water St., Norfolk, Va.

ELKHART BRIDGE & IRON CO., 931 No. Michigan St., Elkhart, Ind.
Pres., Pur. Agt. and Gen. Mgr.—Frank J. Miller
Vice Pres.—B. L. Brumbaugh
Treas. and Sec.—M. J. Brumbaugh
Supt.—R. H. Lloyd
Chief Engr.—W. H. Rice
PRODUCTS—Steel bridges and structural steel work
Capacity—2,500 to 3,000 tons
Incorporated—
Railroads—N. Y. C., Big Four

ELKHART WELDING & BOILER WKS., 2132 South Maine St., Elkhart, Ind.
Gen. Mgr.—L. C. Bock
Supt.—A. F. Bock
Foreman—C. E. Billings
Products—Welding, selling, repairing and installation of boilers

ELMIRA BOILER & IRON WORKS, 733 Dickinson St., Elmira, N. Y.

EL PASO FOUNDRY & MACHINE CO., 1800 E. San Antonio St., El Paso, Tex.
Pres. and G. M.—W. D. Small
Vice Pres., Treas. and P. A.—R. H. Carrington
Sec.—O. G. Lemley
Storekeeper—A. A. Buehler
Supt.—John T. Watson
Chief Engr.—A. V. Benner
Elec. Engr.—J. L. Morrill
Foreman Mach. Shop—C. A. Miller
Foreman Foundries—Clyde Smith
Foreman Pattern Shop—C. C. Hardy
Foreman Boiler Shop—Wm. Crawford
EQUIPMENT—Two 2-ton side-blow converters
PRODUCTS—Manufacturers of iron, brass and steel castings, mining machinery, fabricated structural steel and tanks
Capacity—Iron, 50 tons daily; steel, 50 tons monthly; brass, 1 ton daily
Incorporated—$300,000; issued, $288,500; bonds, $90,000

EMPIRE METAL TANK WORKS, East Rochester, N. Y.
Prop. and Mgr.—Jay Dillenback
Blacksmith—John White
PRODUCTS—Mortar boxes, wall ties, sheet metal, tanks
Capacity—100 tons sheets per annum
Ownership—Private; capital invested, $25,000
Railroads—N. Y. C., Erie, West Shore, Penna., L. V., B. R. & P.

EMSCO DERRICK & EQUIPMENT CO., 6811 So. Alameda St., Los Angeles, Cal.
Pres. and Storekeeper—E. M. Smith
Vice Pres. and G. M.—W. A. Trout
Vice Pres.—E. W. Goeser and Chas. D. Wagner
Treas and Sec.—J. S. A. Smith
Pur. Agt.—H. A. Lee
Sales Mgr.—Chas. D. Wagner
Supt.—W. E. Parker
Chef Engr.—W. D. Davidson
Chief Draftsman—W. D. Sawyer
Plant Engr.—E. H. Chapman
M. M.—O. D. West
Elec. Engr.—F. W. Toetz
Foreman Mach.—C. R. Solum
Foreman Struct. Shop—E. R. Winnett
Foreman Galvanizing—K. F. Forsyth
Foreman—G. G. Probert
EQUIPMENT—Steel derricks and oil well equipment
Incorporated—$3,000,000; issued $2,250,000

ENGINEERING CO., Winter St. and Wabash R. R., Fort Wayne, Ind.
PRODUCTS—Steel tanks

ENGLISH IRON WORKS CO., THE, Broadway, cor. 4th St., Kansas City, Mo.
PRODUCTS—Boilers, steel plate work

ENSIGN, INC., G. W., Harrisburg, Pa.
PRODUCTS—Structural steel and iron work

ENTERPRISE BOILER CO., Youngstown, O.

ENTERPRISE MFG. CO., Cambridge, Mass.
PRODUCTS—Boilers, tanks, steel plate work

ERDLE PERFORATING CO., Rochester, N. Y.

ERIE CITY IRON WORKS, 14th St. and East Ave., Erie, Pa.
Pres.—H. H. Clemens
Vice Pres. and Treas.—Edward C. Moore
Sec. and Gen. Mgr.—L. V. Reese
Sales Mgr.—H. W. Brooks
Pur. Agt.—N. M. Wallace
Storekeeper—H. H. Smith
Supt.—C. D. St. Clair
Chief Engr.—G. W. Nigh
Chief Draftsman—Eugene Brinig
PRODUCTS—Water cooled furnaces, high pressure boilers of all sizes and types, fabricated steel, steel barges, gray iron castings, etc.

ERIE CONCRETE & STEEL SUPPLY CO., 13th and Cranberry Sts., Erie, Pa.
Pres. and Gen. Mgr.—W. E. McCain
Treas.—C. M. Weschler
Chief Engr.—J. M. Blake
Foreman—G. Funk
PRODUCTS—Structural steel and forgings
Capacity—350 tons per month
Capital—$100,000; issued, $75,000

ERIE ENGINE WORKS, W. 13th and Walnut Sts., Erie, Pa.

ERIE STEEL BARREL CO., 19th and Raspberry Sts., Erie, Pa.
Pres., Treas. and P. A.—W. G. Smart
Vice Pres.—J. A. Turner
Sec.—H. L. Moore
Pur. Agt.—H. Benton
Supt.—N. F. Newport
PRODUCTS—Manufacturers of steel barrels, drums
Railroads—On Nickel Plate track; can ship via N. Y. C., Penns., Bessemer & Lake Erie, as all these lines run into Erie, Pa.

ERIE STEEL CONSTRUCTION CO., Geist Road and Nickel Plate R. R., Erie, Pa.
Pres., Treas. and G. M.—G. H. Strayer
Vice Pres.—Geo. R. Metcalf
Sec., Asst. Treas. and Asst. G. M.—F. Earl Bonnell
Pur. Agt.—C. N. Kennedy
Sales Mgr. (equipment only)—E. F. Jones
Struct. Engr.—D. W. Marrs
Chief Draftsman—Fred D. Ellenberger
Mech. Engr.—J. A. Auld
Foreman Mach.—James T. Mitchell
Gen. Supt.—J. J. Sloan
PRODUCTS—Structural steel for buildings, steel warehouse stock, also manufacturers of electric traveling cranes, clamshell buckets, steel loading bins
Railroads—Direct siding on Nickel Plate main line; also connecting transfers to Penna., N. Y. C., and Bessemer R. R.

ERNST'S SONS, CHARLES F., 75 Lathrop St., Buffalo, N. Y.
PRODUCTS—Structural steel and iron work

ESTLE & O'BRIEN BOILER CO., 11 Commercial St., Portland, Me.

ETNYRE CO., E. D., Oregon, Ill.
PRODUCT—Steel tanks

EUREKA BOILER WORKS, 166 Fremont St., San Francisco, Cal. Plant: Eureka, Cal.
PRODUCTS—Boilers and repairs

EUREKA HEATING & VENTILATING CO., 117 No. Water St., Saginaw, Mich.
Treas. and Gen. Mgr.—Charles W. Light
Sec.—Arthur P. Light
Asst. G. M., and Supt.—Fred H. Light
Supt.—Wm. P. Light
Chief Draftsman—Russell M. Light
PRODUCTS—Steam fitting and plumbers supplies, pipe fittings, boilers, radiators, brass valves and goods, heating and ventilating engineers
Partnership
Railroad—M. C.

EVERETT IRON WORKS, INC., Everett, Mass.
Capital—1,000 shares, no par value

EXCELSIOR BOILER WORKS, INC., 63 South Front St., New Haven, Conn.
Pres., Treas., Pur. Agt., Gen. Sales Mgr., Chief Engr., Mgr. Const. and Foreman—E. Williams
Vice Pres.—H. C. Williams
Sec.—S. A. Williams
PRODUCTS—Repairs on boilers, tanks, stacks, annealing pots and tanks; anything in sheet iron stacks or miscellaneous jobs; electric welding specialists
Railroad—Water only

EXETER MACHINE WORKS, Exeter, N. H.
PRODUCTS—Machine work and boiler repairs

F

FAHLSING, A. K., 1215 Sherman St., Fort Wayne, Ind.
PRODUCTS—Boilers and repairs

FAIR MFG. CO., 617 Bryant St., San Francisco, Cal.
PRODUCTS—Structural steel and iron work

FALL RIVER BOILER WORKS, 287 Danforth St., Fall River, Mass.

FARGO BRIDGE & IRON CO., Fargo, N. Dak.

FARGO FOUNDRY CO., Fargo, N. Dak.
Gen. Mgr. and Sec.—A. G. Kinney
Pur. Agt. and Asst. G. M.—Leo J. O'Day
Supt.—H. G. Kornberg
Struct. Engr. and Chief Draftsman—O. A. Stoutland
PRODUCTS—Machine castings and structural steel
Capacity—1,500 tons per year
Incorporated—$50,000
Railroad—N. P. Spur

FARQUHAR CO., LTD., A. B., 142 N. Duke St., York, Pa.
Pres., Treas., Sec. and G. M.—Francis Farquhar
Vice Pres. and Asst. Sec.—Guy C .Stover
Asst. Treas. and Pur. Agt.—Harold A. Russell
Storekeeper—Emory D. Fidler
Sales Mgr.—Wm. G. Eppley
Supt. and Chief Engr.—Wm. J. Fisher
Draftsman—Paul J. Locher
Foreman Mach. Shop—Leo. B. Seitz
Foreman Blacksmith—I. L. Goff
Foreman Foundry—Henry Fisher
Foreman Boiler Shop—Elmer E. Rouscher
EQUIPMENT—Planers, lathes, milling machines, radial drills, etc.; boiler shop, carpenter shop, foundry, cupola, etc.
PRODUCTS—Engines, boilers, sawmills, hydraulic presses, etc.
Partnership
Capital—$500,000; all issued
Railroads—Penna., West. Md., M. & P.

FARRAR — TREFTS, INC., 67 Perry St., Buffalo, N. Y. Foundry: 20 Milburn St. Boiler Shop: 67 Perry St., Buffalo, N. Y.
Pres.—George M. Trefts
Vice Pres.—Frank J. Rentschler
Treas. and G. M.—John C. Trefts
Sec.—George M. Trefts, Jr.
Pur. Agt.—Wm. E. Schmidt
Sales Mgr. (foundry)—Ross W. Snoberger
Sales Mgr. (boiler shop)—S. Mensonides
Supt. Boiler Shop—C. O. Logan
Supt. Foundry—A. Rankin
PRODUCTS—Foundry, pots, R. R. castings, rolling mill guides and jobbing work; boiler shop, tank work and boilers of all descriptions
Incorporated—$2,000,000; issued, $600,000
Railroads—Foundry, N. Y. C. siding; Boiler Shop, no switch, but within one block of D. L. & W. and L. V.

FARRELL MANUFACTURING CO., THE, Cass and Bissell Sts., Joliet, Ill.
Pres. and C. E.—C. S. Farrell
Vice Pres.—D. McReynolds
Treas., Sec., Pur. Agt., Gen. and Sales Mgr.—W. I. Jones
Supt.—A. J. Perona
PRODUCTS—Steel plate work
Incorporated—$100,000
Railroads—M. C., R. I., Sante Fe., C. & A., E. J. & E., St. Paul

FARRIS BRIDGE CO., Charleston, W. Va.

FASSETT BOILER WORKS, J. E., Wellsville, O.
Prop. and Gen. Mgr.—George Fassett
PRODUCTS—Boiler repairs, tanks, stacks, etc.
Railroad—Penna., and Ohio River

FAUCHER MacMURRAY, INC., 310 Franklin St., Rochester, N. Y.
Pres. and P. A.—C. A. Faucher
Vice Pres.—A. D. Faucher
Treas., Sec. and S. M.—Robert MacMurray
Asst. Sec.—Robert J. Doerberker
Supt.—John Bereja
Chief Engr.—C. S. Fairbanks
Chief Draftsman—A. Kupwet
Foreman Mach.—A. Urban
PRODUCT—Architectural iron work
Incorporated

FEDERAL BRIDGE CO., 1001-406 6th Ave., Des Moines, Iowa

FEDERAL IRON WORKS CO., THE, 100 No. Prospect St., Youngstown, O.
Pres. and Sec.—F. J. McCarthy
Vice Pres.—J. M. Flood
Sec.—F. C. Dustman
Gen. Mgr.—W. R. Richards
Chief Draftsman—I. R. Richards
PRODUCTS—Ornamental iron and structural steel
Incorporated—1920; $25,000

FEDERAL IRON WORKS, 86 Western Ave., Allston, Mass.
Pres., Pur. Agt. and Supt.—C. A. Merrifield
Vice Pres. and Chief Draftsman—R. W. Crosscup
Treas.—A. M. Rich
Sec.—V. W. Smith
Struct. Engr.—L. E. Weeks
PRODUCTS—Structural steel and ornamental iron work
Incorporated—$50,000

FEDERAL SHIPBUILDING & DRY DOCK CO., Kearney, N. J.
Vice Pres. and G. M.—L. H. Korndorff
Treas.—R. J. Kepler
Sec.—W. J. Filbert
Asst. Sec.—A. T. Duffield
Pur. Agt.—R. S. Page
Works Mgr.—W. C. Hemingway
Gen. Supt. Hulls—G. G. Holbrook
Chief Engr.—W. W. Smith
Naval Architect—J. C. Craven
Storekeeper—A. M. Budd
Supt Mach.—A. R. McMullen
Plant Engr.—C. W. Bryan, Jr.

EQUIPMENT—Boiler, machine, steel fabricating, sheet metal, pipe, forge, carpenter, joiner and pattern shops, 6 shipbuilding ways
PRODUCTS—Shipbuilding and repairs, marine engines and boilers, Parson turbines and heavy machinery products
Incorporated—

FEDERAL STEEL SASH CO., Waukesha, Wis.
Pres.—C. J. McIntosh
Vice Pres. and Sales Mgr.—M. Mackie
Vice Pres.—A. H. Nesheim
Treas., Sec. and P. A.—R. E. Huppert
Asst. Sec.—F. Keebler
Chief Engr.—C. F. Kuney
PRODUCTS—Electric arc welded solid steel windows and allied products
Incorporated—

FEINE & SONS CO., AUGUST, 140 Terrace, Buffalo, N. Y. Plant: Baraga and Abbey Sts.
Pres.—August Feine
Asst. to Pres.—August L. Feine
Treas. and Gen. Mgr.—Charles F. Feine
Sec. and Pur. Agt.—George R. Feine
PRODUCTS—Structural steel and ornamental iron work
Capacity—400 tons monthly
Incorporated—

FELKER BROS. MFG. CO., Marshfield, Wis.
Pres. and Gen. Mgr.—A. G. Felker
Vice Pres., Sec. and Pur. Agt.—D. L. Miller
Treas. and Supt.—R. T. Finucan
PRODUCTS—Sheet metal, corrugated road culverts, well tubing, galvanized, riveted and arc welded steel tanks for farms, industrial and oil supply
Incorporated—$125,000
Railroads—Soo, C. & N. W., C. St. P. & M., O. Ry.

FERGUS IRON WORKS CO., Fergus Falls, Minn.
PRODUCTS—Boilers and steel plate work

FERGUSON-ALLAN CO., Clinton St., Batavia, N. Y.
Chairman—I. C. Randall
Pres. and Treas.—Frederick W. Allan
Vice Pres. and Sales Mgr.—J. W. Laird
Sec., Asst. Treas. and P. A.—E. M. Anthony
Storekeeper—W. Knipe
Gen. Mgr.—R. G. Allan
Supt.—Robert Beverage
Chief Engr.—Frank Patterson
Chief Draftsman—E. R. Fletcher
Foreman Mach.—William Smith
PRODUCTS—Steel plate construction
Capacity—300 tons
Incorporated—$140,000; issued, $70,000; bonds, $60,000
Railroad—Erie

FERGUSON CO., H. K., 4900 Euclid Ave. Plant: 3239 E. 82nd St., Cleveland, O.
Pres., Treas.—Harold K. Ferguson
Vice Pres. and Mgr. Const.—Joseph S. Ruble
Sec. and Chief Engr.—H. S. Jacoby
Chief Contract. Engr.—R. E. J. Summers
Pur. Agt.—K. C. Ferguson
Mech., Elec. and Power Engr.—F. W. Buck
Chief Draftsman—H. J. Hassler
PRODUCTS—Design, equip and finance industrial buildings, power plants and commercial buildings
Incorporated—$250,000
Railroad—Penna.

FERGUSON MFG. CO., Dubuque, Iowa
PRODUCTS—Steel tanks, etc.

FERNSTRUM, FRANK G., Menominee, Mich.
PRODUCTS—Boilers and repairs

FERRAN & CO., CHARLES, Magazine, Calliope and Gaiemie Sts., New Orleans, La.
PRODUCTS—Boilers, tanks, etc.

FERRO-CO CORP., 37-21 Wythe Ave., cor. N. 13th St., Brooklyn, N. Y.
Pres. and Treas.—A. D. Mellor
Sec.—C. C. Webster
Sales Mgr.—F. Haag
Supt.—L. W. Baverstock
Foreman—A. Lechler
Foreman—L. Rohde
EQUIPMENT—100-ton presses, power shears, forming rolls, light punches, drills, grinders, electric welding, acetylene welding, etc.
Incorporated—
Railroad—Brooklyn or Eastern district

FINACUNE BOILER WORKS, Houston, Tex.

FINCH MFG. CO., 8th Ave. and W. Linden St., Scranton, Pa.
Pres.—E. F. Marsh
Vice Pres.—J. R. Davis
Treas.—C. B. Price
Sec.—Leland F. Marsh
Pur. Agt.—Genevieve McGowan,
Gen. Mgr. and Supt.—T. H. Sly
Chief Draftsman—Geo. H. Skinner
Mech. Engr.—Wm. Kuech
Foreman Mach.—Jacob Ballus
Foreman Blacksmith—Henry Doll
Foreman Fdry.—John Harper
Foreman Boiler Shop—Louis Forgeng
EQUIPMENT—Gray iron foundry, machine, boiler and forge shops
Capital—$250,000
Railroads—D. L. & W., C. R. R. of N. J., and D. & H., etc.

FINE COLUMN & IRON WORKS, SAMUEL, 300 Bremen St., East Boston, Mass.

FINNIGAN & CO., INC., J. J., 22-27 Means St., Atlanta, Ga.
PRODUCTS—Steel tanks, boilers, sheet iron work

FITZGIBBONS BOILER CO., P. H., 1 Monroe Ave., Ogdensburg, N. Y.
Pres., Treas. and G. M.—E. J. Dinneen
Vice Pres. and Sec.—Elizabeth Gleason
Pur. Agt.—John T. Gleason
Supt.—Victor Dashnaw
PRODUCTS—Steel, sectional heating boiler, general boiler work
Incorporated $70,000; issued $41,000
Railroads—N. Y. C., Rutland, Lakes & Rivers Forwarding Co.

FLEMING MFG. CO., 411 Neal St., New Castle, Pa.
Prop. and Gen. Mgr.—L. Kohn
Foremen—George A. Metz and Wm. G. Fleming
PRODUCTS — Structural steel and steel plate construction
Capacity—2,000 tons per year
Railroads—Penna., P. & L. E., B. & O.

FLESCH & SCHMIDT, INC., 60 Brown St., Rochester, N. Y.
Pres.—Wm. J. Schmidt
Treas.—C. W. Flesch
Incorporated—

FLINT STRUCTURAL STEEL CO., Davison Road and Belt Line, Flint, Mich.
Pres.—Reinhard Kleinpell (inactive)
Vice Pres.—Arthur D. Bishop (inactive)
Treas. and G. M.—Robert W. Heerlein
Sec., Sales Mgr. and C. E.—E. Howard Perkins
Mgr. Const.—Fred W. Pocock
Supt.—M. E. Brown
Struct. Engr.—E. M. Christensen
Chief Draftsman—P. W. Brandt
Capacity—12,000 tons per year
Incorporated—$150,000
Railroads—On Flint Belt Line Railroad, connecting with G. T. R. R. and P. M. Ry.

FLORIDA MACH. & ENGR. CO., 1612 Highland Ave., Tampa, Fla.
PRODUCTS—Boilers, repairs and machinery

FLOUR CITY ORNAMENTAL IRON CO. 27th and 28th Aves., Minneapolis, Minn.

FOCHTS SONS, GEORGE, Hoboken, N. J.
PRODUCTS—Steel plate work

FOREST CITY STRUCTURAL STEEL CO., 1500 W. 110th St., Cleveland, O.
Pres. and Gen. Mgr.—J. H. Lesh
Vice Pres. and Chief Engr.—Edwin F. Fox
Treas.-Sec.—R. W. Kempsmith
Asst. Treas. and Sec.—C. H. McKenzie
Pur. Agt.—E. P. Fox
Gen. Supt.—E. W. Cooper
Mgr. Sales—O. B. Stauffer
Chief Draftsman—E. Krupitzer
Elec. Engr.—C. King
Foreman Blacksmith—D. Paterson
Foreman—J. Mahoney
PRODUCTS—Structural steel fabrication and erection
Incorporated—
Railroad—N. Y. C.

FORSBERG, GUSTAVE W., 8th and Water Sts., Washington, D. C.
PRODUCTS—Boiler repairs and steel plate work

FORT PITT BRIDGE CO., Oliver Bldg., Pittsburgh, Pa. Plant: Canonsburg, Pa.
Chairman—G. C. Dellenbach
Pres.—Theo. A. Straub
Vice Pres.—H. R. Blickle
Treas. and Sec.—P. B. Straub
Pur. Agt.—A. J. Bodenham
Supt.—Wm. Berger
Supt. Erect.—T. E. Lynch
Chief Engr.—Charles G. Schade
Struct. Engr.—A. Sheldon
Chief Draftsman—O. C. George
PRODUCTS—Bridges, buildings, structural steel reinforcing rods, gray iron castings
Capacity—50,000 tons annually
Incorporated

FORT SMITH STRUCTURAL STEEL CO., 900 Wheeler Ave., Fort Smith, Ark.
Pres.—D. Sugarman
Vice Pres.—Sam. Sugarman
Sec. and Treas.—S. Katzer
PRODUCTS—Structural steel fabricators
Incorporated—$20,000

FORT WORTH STEEL & MACHINERY CO., Fort Worth, Tex.
PRODUCTS—Fabricating steel

FOSTER, JOHN F., 924 Washington St., Boston, Mass.
PRODUCTS—Boilers, repairs, etc.

FOUTS CO., C. C., 1703 Woodlawn and B. & O. Ry., Middletown, O.
Pres. Gen. and Sales Mgr.—C. C. Fouts
Vice Pres.—P. M. Fouts
Treas. and Sec.—L. M. Barnes
Supt.—P. H. Rogers
Foreman—Wm. Arkill
PRODUCTS—Sectional bolted grain cribbs, silos, tanks, welded, lubricating tanks, etc.
Incorporated—
Railroads—B. & O., Big Four, Penna.

FOWLER WOLFE SHEET METAL WORKS, INC., 1200 So. Third St., Paducah, Ky.

FRANCHE & CO., C. E., 440 Orleans St., Chicago, Ill.
PRODUCTS—Structural steel

FREED FURNACE CO., Oaks, Pa.

FREELAND SONS CO., D., Sturgis, Mich.
PRODUCTS—Steel tanks

FREEMAN MFG. CO., Racine, Wis.
Pres. and Treas.—Charles Freeman
Vice President—Harold C. Freeman
Sec.—Frank P. Freeman

Pur. Agt.—R. J. Buckley
Supt.—Michael Freeman
Mech. Engr. and Chief Draftsman—James S. Clay
Power Engr.—Carl Jensen
Foreman Mach.—Michael Beck
Foreman Boiler Shop—Frank J. Buckley
PRODUCTS—Manufacturers steam boilers and farm implements
Incorporated—$200,000

FREMONT FOUNDRY & MACHINE CO., Fremont, Neb.
Pres., G. M. and P. A.—Z. M. Marr
Sec. and Treas.—J. Rex Henry
Storekeeper—S. N. Hall
Mgr. Const.—J. J. Sands
Supt., Struct. Engr. and Chief Draftsman—J. C. Kerrigan
Foreman Mach.—C. A. Peterbaugh
Blacksmith—Ted Struve
Foreman (foundry)—C. A. Brayton
PRODUCTS—Structural steel and iron, gray iron foundry
Capacity—150 tons structural a month; 600 tons iron castings
Incorporated—$80,000; issued, $50,000
Railroads—Main Line U. P. R. R. and C. & N. W. Ry., Branch C. B. & Q.

FRICK CO., West Main St., Waynesboro, Pa.,
Chairman—A. O. Frick
Pres. and G. M.—Ezra Frick
Vice Pres.—John G. Benedict
Treas. and Asst. G. M.—D. Norris Benedict
Asst. Treas.—M. E. Gordon
Sec.—W. R. Snively
Asst. Sec.—G. H. Kuhn
Pur. Agt.—J. L. McCleary
Sales Mgrs.—A. H. Baer and W. R. Snively
Mgr. Const.—M. W. Garland
Supt.—S. F. Workman
Asst. Supt.—J. C. Miller
Chief Engrs.—N. M. Small and D. F. Good
Chief Draftsman—C. L. Whitaker
Power Engr.—A. Stover
Elec. Engr.—Clyde Strite
Foreman Mach.—A. S. Foreman
Foreman—Luke Ashworth
PRODUCTS — Refrigerating machinery, portable, stationary and traction steam engines, boilers, threshers and saw mills
Incorporated—$5,000,000; issued, $3,000,000 preferred stock and 60,000 shares common stock
Railroads—Penna., Cumberland Valley Dic., and West. Md.

FRIEDMAN-LOWITH IRON WORKS, 2500 E. 24th St., Los Angeles, Cal.
PRODUCTS—Structural steel work

FRIEDMAN & SON, INC., PHILIP, 5000 Pacific Blvd., Los Angeles, Cal.
Pres., Treas. and Mgr. Const.—Philip Friedman
Vice Pres. and Pur. Agt.—Harry Friedman
Sec. and Sales Mgr.—Edward Friedman
PRODUCTS—Ornamental iron and structural steel
Incorporated—

FRINS & TRIER, 2511 Eighth Ave., New York, N. Y.
PRODUCTS—Boilers, etc.

FROST MFG. CO., THE, Galesburg, Ill.
Pres.—W. S. Cameron
Vice Pres. and S. M.—S. M. Harrington
Treas.—R. J. Howard
Asst. Treas.—Louise T. Harrington
Sec.—Kate L. Harrington
Pur. Agt.—R. E. Melville
Storekeeper—Paul Chalmers
Supt.—W. P. Smith
Foreman Mach.—Albert Egan
Foreman Boiler Shop—C. M. Kelly
Railroads—C. B. & Q. and A. T. & S. F.

FULLER CO., J. L., 315 Adams St., Detroit, Mich.
PRODUCTS—Boilers, repairs and tank work

FULTON ENGINE WORKS, Main and Alhambra Sts. Los Angeles, Cal.
PRODUCTS—Boilers and engines

FURLONG BOILER & IRON WORKS, HENRY, 400 E. Court St., Des Moines, Iowa

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GAGE STRUCTURAL STEEL CO., 3141 So. Hoyne Ave., Chicago, Ill.
Pres. and Gen. Mgr.—L. C. Gage
Treas.—F E. Swanson
Sec.—R. H. Gage
Pur. Agt.—F. S. Saiger
Supt.—H Burkhart
Struct Engrs.—R. H. Gage and M. J. Hammer
Chief Engr. and Draftsman—M. J. Hammer
PRODUCTS—Structural steel for buildings
Capacity—1,000 tons per month
Incorporated—$100,000
Railroad—A. T. & Santa Fe switch

GALION METALLIC VAULT CO., THE, Galion, O.
Pres. and Treas.—L. M. Liggett
Vice Pres.—H. Gottdiener
Sec.—E. P. Monroe
Asst. Sec.—D. G. Strother
Sales Mgr—R. M. Hammond
Supt.—Roy J. Arnold
Asst. Supt.—R. E. Smith
Chief Draftsman—Ralph Curfman
PRODUCT—Manufacturers of steel burial vaults
Incorporated—$400,000
Railroads—Big Four, Erie, C. & S. W. Electric Ry.

GALLAHER BOILER CO., 405 Olive St., St. Louis, Mo.

GALLAND-HENNING MFG. CO., 26th Ave. and Montana St., Milwaukee, Wis.
PRODUCT—Malt tanks

GALVA HEATER CO., THE, Galva, Ill.
PRODUCTS—Heating boilers

GARREN & HINES, 901 E. 5th St., Muscatine, Iowa
PRODUCTS—Boilers, repairs and steel plate work

GATE CITY IRON WORKS, Seward St., Omaha, Neb.
Sales Mgr.—Ivar. H. Clough
Gen. Mgr.—Henry B. Neef
Supt. Struct. Shop—Geo. Cvetas
Supt. Ornamental Shop—Earl McGuire
Blacksmith—Seb. Greco
EQUIPMENT—Punches, shears, riveters, oil furnaces, acetylene welding, cutting, generator, arc welder, derricks, houts, hand and electric G. E. motors, wire crimpers, etc.
PRODUCTS—Structural steel, ornamental iron
Capacity—1,500 tons annually
Partnership
Railroads—U. P. and C. M. & St. P., joint trackage; I. C. and Wabash, joint trackage

GEDGE BROS. IRON ROOFING CO., Fletcher and 25th Sts., Anderson, Ind.
Pres.—Mrs. B. H. Gedge
Vice Pres.—L. H. Gedge
Sec. and Treas.—N. M. McCullough
PRODUCTS—Manufacturers stock tanks, fountains, steel roofing, foot goods, etc.
Railroads—Penna., I. U. T. Co., trucks

GEHROT BROS., INC., Fourth St., Bridgeport, Pa.
Pres. and Treas.—C. A. Gehret
Sec. and G. M.—W. R. Browne
Supt.—Raymond Bean
EQUIPMENT—Steel for fab. shop
PRODUCTS—Structural and ornamental fabrication
Incorporated—
Stock Issued—63,000 common; 90,000 preferred
Railroads—Two private sidings, Reading

GEIGER-PETERS, 1709 Madison Ave., Indianapolis, Ind.
Struct. Engr.—Walter Peterson and Hans F. Geiger
PRODUCTS—Structural steel and ornamental iron
Partnership

GEM CITY BOILER CO., THE, 1277 Leo St., Dayton, O.
Pres. and Gen Mgr.—A. H. Kemper
Vice Pres. and Treas.—L. E. Tucker
Sec.—Arthur E. Leen
Supt.—Clarence Clemens
Chief Engr.—W. H. Durkin
PRODUCTS—Steam boilers
Capacity—200,000 per annum
Incorporated—$25,000
Railroad—B. & O.

GENERAL BOILER CO., 122 No. 7th St., St. Louis, Mo.

GENERAL BOILERS CO., 201 Washington St., Waukegan, Ill.
PRODUCTS—Boilers, steel plate work and repairs

GENERAL ERECTING CO., 105 Mary St., Syracuse, N. Y.

GENERAL IRON WORKS CO., THE, Front and Harriet Sts., Cincinnati, O.
Chairman—A. E. Reuss
Vice Pres. and Supt.—T. Kluver
Sec. and Treas.—C. A. Schneider
Mgr. Const.—H. L. Bowers
Struct. Engr.—H. E. Barnes
PRODUCTS—Structural, ornamental and miscellaneous iron work for buildings
Capacity—500 tons per month
Incorporated——$40,000
Railroad—Main Line B. & O.

GENERAL METAL PRODUCTS CO., 1121 Pestalozzi St., St. Lous, Mo.
Pres.—Herman Vonder Au
Sec., Treas. and G. M.—R. A. Kaltwasser
Pur. Agt.—Irving Peppel
Storekeeper—M. C. Green
Sales Mgr.—R. H. Heise
C. E. and Supt.—John J. Frei
PRODUCTS—Pressed steel, special industrial steel, fabrication of all kinds
Capacity—1,500 tons pressed and fabricated steel products
Incorporated—$75,000; issued, $66,000
Railroads—Private switch connecting with all main lines through Terminal Ry. Co.

GENERAL TANK CO., 12 Monitor St., Brooklyn, N. Y.

GENESEE BOILER WORKS, 438 Exchange, Rochester, N. Y.

GENESEE BRIDGE CO., Box 42, Rochester, N. Y.
Pres.—Harmon Hershey
Vice Pres.—William Feller
Treas.—John Cattanach
Asst. Treas.—Henry Gunn
Sec.—Donald H. Hershey
Supt.—C. C. Sparr
Chief Engr.—Charles F. Starr
Chief Draftsman—H. C. Ferguson
PRODUCTS—Fabrication and erection of structural steel for buildings and bridges
Capacity—6,000 tons per annum
Incorporated—$150,000
Railroad—B. R. & P., siding

GENEVA BOILER WORKS, INC., Gates Ave., Geneva, N. Y.
Chairman—E. P. Bowden
Pres.—Richard H. Graham
Treas.—J. C. W. Manthorp
Asst. Treas. and Pur. Agt.—M. T. Kelleher
Sec.—F. J. Elder
Mgr. Const.—F. Tebeau
Foreman—Albert Linkner
PRODUCTS — Tubular boilers, stacks, tanks, etc.

Incorporated—$150,000; issued, $80,000
Railroads—N. Y. C., L. V.

GENEVA FOUNDRY CORP., 23 Jackson Ave., Geneva, N. Y.

GEORGIA ARCHITECTURAL WORKS, Fort Valley, Ga.

GERDES & CO., 42 Church St., New York, N. Y.
PRODUCT—Steel plate work

GERSTEIN & COOPER CO., 1-3 West 3rd St., So. Boston, Mass.
Pres.—Maurice Gerstein
Treas.—Abraham Cooper
Pur. Agt.—A. Cooper
PRODUCT—Coppersmithing
Incorporated—

GERSTNER BOILER WORKS, INC., 39th and Neville Sts., Pittsburgh, Pa.
Pres.—F. P. Gerstner
Vice Pres. and Gen. Mgr.—D. L. Suskey
Treas. and Sec.—A. C. Davis
PRODUCTS—Fabricated steel plate work of every description
Capacity—$500,000 annually
Incorporated—$116,800
Railroads—Penna., B. & O., B. R. & P., P. & L. E., B. & L. E.

GIBLIN & CO., 701 Broad St., Utica, N. Y.
PRODUCTS—Boiler repairs, etc.

GILBERT & BARKER MFG. CO., Springfield, Mass.
Pres.—R. H. McNall
Vice Pres.—C. C. Ramsdell
2nd Vice Pres.—S. C. Hope
Treas.—W. T. Rayner
PRODUCTS — Gasoline pumps, storage tanks, gas and oil burning furnaces

GLOBE IRON WORKS, 17 Middlesex St., Boston, Mass.

GODFREY-KEELER CO., 70 Warren St., New York, N. Y.
PRODUCTS—Boilers, smoke stacks, tanks

GOGEBIC STEAM BOILER WORKS, 415 Lake St., Duluth, Minn.

GOLDBERG & SONS, J., 800 E. 18th St., Kansas City, Mo.
PRODUCTS—Structural steel fabrication

GOLDEN GATE IRON WORKS, San Francisco, Cal.

GOLDEN WEST IRON WORKS, San Francisco, Cal.

GOLDNER BOILER & TANK WORKS, Water, cor. Mifflin Sts., Philadelphia, Pa.

GOLLEY & FINLEY, 500 So. Main St., Lima, O.

PRODUCTS—Boilers, tanks and repair work

GRAHAM BOILER SHOP, 601 Sheridan St., Richmond, Ind.

GRAINGER & CO., 119 No. 10th St., Louisville, Ky.
PRODUCTS—Boilers, repairs and tank work

GRAND CROSSING BOILER WORKS, 1244 E. 73rd St., Chicago, Ill.
PRODUCTS—Boiler, tank work and repairs

GRAND IRON WORKS, INC., 525-33 Tiffany St., Bronx, New York City
Pres. and Treas.—Emil Alpern
Vice Pres. and Mgr. Const.—Bernard E. Alpern
Sec., Pur. Agt. and Sales Mgr.—Jacob Alpern
Supt.—A. Rizzo
Chief Engr.—C. H. Michelson
Chief Draftsman—O. P. Burr
Foreman Repairs—Edward L. White
PRODUCTS—Structural steel and ornamental iron work
Capacity—2500 tons per year
Incorporated

GRAND RAPIDS BOILER WORKS, 323 Front St., Grand Rapids, Mich.

GRAND SHEET METAL WORKS, 60 East 3rd St., No., Portland, Ore.
Pres.—E. E. Erickson
Vice Pres.—E. A. Hoberg
Treas.—E. H. Payne
P. A. and Sec.—W. E. Reed
PRODUCTS—General sheet metal work
Incorporated

GRANGER CO., A. D., 15 Park Row, New York, N. Y.
Pres.—A. D. Granger
Treas.—D. B. See
Sec.—A. G. Fleck
PRODUCTS—Steam boilers, stacks, pumps, power plant machinery, engines, cranes and hoists

GRAVER CORP., East Chicago, Ind.
Pres. and Treas.—W. F. Graver
Vice Pres.—P. S. Graver
Vice Pres.—K. W. Bartlett
Asst. Treas.—Ed. Werner
Sec.—H. S. Graver
Asst. Sec.—A. E. Lucius
Pur. Agt.—L. A. Tull
Storekeeper—J. Grogham
Sales Mgr.—J. J. Felsecker

GRAVES & MARSHALL CO., THE. (Formerly Dayton Steam Boiler Works) Dayton, O.
Pres.—Geo. L. Marshall
Vice Pres. and G. M.—Geo. W. Marshall
Sec., Treas. and Pur. Agt.—Gay L. Marshall
Chief Engr. and Supt.—Geo. Holland

EQUIPMENT—General boiler shop equipment used
PRODUCTS—Steel plate and sheet iron work, feed water heaters, stacks, tanks, etc.
Capacity—500 tons per annum
Incorporated—$20,000
Railroads—Big Four, Erie, B. & O., Penna.

GRAY, JOHN F., 15 Lewis St., East Boston, Mass.
PRODUCTS—Boilers, sheet metal work and repairs

GREAT LAKES DREDGE & DOCK CO., 104 So. Michigan Ave., Chicago, Ill. Dock: 1092-1106 No. Branch St. Office: 92nd St. Bridge and Calumet River. Yards: Fuller St. and Calumet River

GREAT LAKES ENGINEERING WKS., River Rouge, Mich.
Pres. and Gen. Mgr.—J. A. Ubsdell
Vice Pres. and Asst. G. M.—G. B. Tumbull
Vice Pres.—J. T. Webster
Treas. and Sec.—F. G. Morley
Asst. Sec.—R. C. Lakin
Pur. Agt.—Chas. Short
Storekeeper—F. W. Fair
Supt.—Chas. E. Baisley
Chief Engr.—H. M. Varian
Draftsman—L. H. Feldmeyer
Mech. Engr.—F. M. Scotter
PRODUCT—Steel shipbuilding
Incorporated—$2,500,000; issued, $1,850,000
Railroads—M. C. R. R., D. T. & I.

GRECIAN IRON WORKS, 28 Tudor St., Boston, Mass.

GREENVILLE BOILER & MACHINE WORKS, 511 So. Theobald St., Greenville, Miss.
Prop. and Mgr.—Fred Schelben
Pur. Agt.—Emil L. Nick
Supt.—Eric Schelben
PRODUCTS—Boilers, tanks, stacks, structural steel and machinery repairing
Railroads—Y. & M. V., Col. & Greenville

GRIMM IRON WORKS CO., THE, 2431-35 Spring Grove Ave., Cincinnati, O.
Pres. and G. M.—Edw. C. Grimm
Vice Pres.—Mrs. Margaret Grimm
Sec. and Treas.—Katherine E. Grimm
Chief Draftsman—Walter Reinhold
Foreman—Walter J. Gehling
PRODUCTS—Structural steel and ornamental iron for buildings
Incorporated—$25,000

GROSSIE & SCHLAGER IRON WORKS, 84 Washington St., Boston, Mass.

GROTON BRIDGE CO., Groton, N. Y.

GRUBER BOILER WORKS, FRANK, 402 So. Burr St., Fort Wayne, Ind.
PRODUCTS—Boilers

GRUNDY IRON WORKS, INC., FREDERICK, 3211 Amber St., Philadelphia, Pa.
Pres. and G. M.—Frederick Grundy
Vice Pres.—Charles W. Kaeser
Sec. and Treas.—Edwin Bowden
Pur. Agt.—Eric Alber
Chief Draftsman—Elwood Keime
PRODUCT—Architectural iron work
Incorporated

GRUPE, JOHN P., Davenport, Iowa
PRODUCTS—Boilers

GUIBERT STEEL CO., Diamond Bank Bldg., Pittsburgh, Pa.
Chairman—F. W. Guibert
Pres. and Gen. Mgr.—O. E. Guibert
Vice Pres.—Geo. E. Brown
Treas., Sec., Pur. Agt. and Mech. Engr.—S. R. Bachtel
Asst. Sec.—M. G. Stewart
Storekeeper—J. J. Briscoe
Sales Mgr. and Struct. Engr.—Jerome Wolff
Supt.—C. T. Gracy
Draftsman—P. S. Fitzpatrick
M. M.—Geo. Gregory
Foreman Blacksmith—J. Frank
Foremen—N. Tarter and H. Brenner
PRODUCTS—Fabrication of structural steel
Capacity—24,000 tons per year
Incorporated—$200,000
Railroad—P. R. R.

GULDAMON & SONS, 408 So. Mosley St., Wichita, Kan.
PRODUCTS—Boilers, tanks and steel plate work

GULF BOILER WORKS, So. Florida Ave. and Hampton Ave., Tampa, Fla.
PRODUCTS—Boilers and repairs

GUNNING BOILER & MACHINE CO., 65 So. Water St., New Bedford, Mass.

GUNZ BOILER WORKS, HERMAN, 7 Greenwood Ave., Newark, N. J.

GURNEY HEATER MFG. CO., Framingham, Mass.

GUSSETT BOILER WORKS, 1140 Marion Ave., S. W., Canton, O.
Prop. and Mgr.—E. J. Gussett
PRODUCTS—Stacks, tanks, steel construction, boiler repairs, electric and acetylene welding

GUY, JAMES, Brown's Wharf, Newburyport, Mass.
PRODUCTS—Boilers and repairs

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HAAKINSON & BEATY CO., Nebraska and First Sts., Sioux City, Iowa
Pres. and Pur. Agt.—C. E. Haakinson
Vice Pres. and Struct. Engr.—J. W. Anderson

Sec.—R. I. Besty
Supt.—C. J. Leveling
PRODUCTS—Structural and ornamental iron and steel
Incorporated
Capital—$100,000; issued, $87,200
Railroad—C. & N. W.

HAARMANN & CO., INC., G., Holyoke, Mass. Plant: Ducharme Ave., Williamansett, Mass.
Pres.—Gustav Haarmann, Sr.
Vice Pres.—F. W. Wagner
Treas. and Gen. Mgr.—J. A. Scheibel
Sec., Asst. Treas. and Sales Mgr.—T. K. O'Connor
Supt.—P. F. Wagner
Struct. Engr.—C. W. Carroll
Chief Draftsman—H. L. Hunt
PRODUTS—Structural steel, ornamental iron
Capacity—500 tons per month
Incorporated—$70,000
Railroads—Boston & Maine, N. Y. N. H. & H.

HACKENDAHL & SCHMIDT CO., 16th and Canal Sts., Milwaukee, Wis.
PRODUCTS—Structural steel and iron work

HADDEN IRON CONSTRUCTION CO., West Elizabeth, N. J.

HAFFNER CO., CHARLES, 2246 So. Halsted St., Chicago, Ill.
PRODUCT—Boilers

HALL & HULBERT, 129 25th St., Brooklyn, N. Y.
PRODUCTS—Boilers, repairs, etc.

HALLE BOILER CO., WM. F., 61 North St., Elgin, Ill.
Pres. and Treas.—Wm. F. Hallet
Vice Pres.—E. C. Hallet
Sec.—R. H. Nutting
PRODUCTS—Boiler repair work
Incorporated

HALLS SONS, SIDNEY, 175 Mill St., Rochester, N. Y.
PRODUCTS—Boilers and repairs

HAMBURG BOILER WORKS, INC., Hamburg, Pa.
Pres.—Henry Seiders
Vice Pres.—Catherine Seiders
Treas., Sec. and Gen. Mgr.—Harry A. Seiders
Foreman—Glosse Seiders
PRODUCTS—Vertical A. S. M. E. boilers for 100-lb. pressure and steel plate tanks
Incorporated—$60,000
Railroad—Penna., siding into shop

HAMILL IRON WORKS, ALEX., 428 Montgomery St., Jersey City, N. J.
PRODUCTS—Structural steel and iron work

HAMILTON BRIDGE CO., LTD., 231 Bay St., North, Hamilton, Ont.
Pres.—George M. Hendrie
Vice Pres.—W. I. S. Hendrie
Treas.—A. E. Martin
Mgr. Direc. and Sec.—W. B. Champ
Pur. Agt.—F. J. Williams
Sales Mgr.—J. P. Mantle
Supt.—A. H. Phoenix
Supt.—James Hunter
Chief Engr.—R. K. Palmer
Designing Engr.—J. A. McFarland
Chief Draftsman—W. W. Cushing
Field Engr.—H. B. Stuart
PRODUCTS—Structural steel bridges and buildings
Capital—$1,000,000

HAMILTON, E., 98 Norman Ave., Brooklyn, N. Y.
PRODUCTS—Boiler repairs

HAMLER BOILER & TANK CO., 66th St. and So. 60th Ave., Chicago, Ill.
Pres., Treas. and Gen. Mgr.—E. B. McGuire
Vice Pres. and Pur. Agt.—A. R. Riegler
Asst. Treas.—I. Dick
Sec.—L. P. Kornfeld
Supt.—T. H. Woods
PRODUCTS—Heavy steel tanks and smoke stacks
Capacity—8,000 tons per month
Incorporated—$350,000
Railroad—Belt Ry. Co.

HAMMOND IRON WORKS, Lexington Ave., Warren, Pa.
Pres.—H. D. Kopp
Vice Pres. and Pur. Agt.—M. B. Stewart
Treas. and Gen. Mgr.—F. M. Greenlund
Sec. and Sales Mgr.—W. R. Schillhammer
Storekeeper—E. H. Trushel
Supt.—Peter P. Hohman
Chief Engr.—C. M. Logan
PRODUCTS—Steel tanks, steel plate construction
Capacity—2,000 tons per month
Incorporated—$600,000
Railroads—Penna., and N. Y. C.

HAMMOND MACHINE & FORGE WKS., 216 Wilcox St., Hammond, Ind.
Pres. and Treas.—G. A. Kuehl
Vice Pres.—J. E. Kuehl
PRODUCTS—Architectural iron and jobbing machine shop work

HANKE IRON WORKS, 800 No. Albany Ave., Chicago, Ill.
PRODUCT—Stand pipes

HANSEL, ALCOCK CO., Archer and Normal Aves., Chicago, Ill.
PRODUCTS—Structural steel fabrication

HANTEN MACHINE CO., Watertown, S. Dak.
PRODUCT—Boilers

HAMMOND MACHINE & FORGE WKS., St., Denver, Col. Branch Plant: Missoula, Mont.
Pres. and Gen. Mgr.—R. Hardesty

Vice Pres.—L. Kent Robinson
Treas.—Roy R. Hardesty
Sec. and Asst. Gen. Mgr.—J. B. Stark
Asst. Sec. and Supt.—Wm. J. Kirkman
Pur. Agt.—T. J. Fitzgerald
Storekeeper—Philip C. Bowen
Chief Engr.—R. E. Barnard
Foreman Machinist—R. C. Hageman
PRODUCTS—Sheet metal, irr gation supplies, culverts, tanks, welded pipe, tin cans, etc.
Incorporated—$500,000; issued, $340,076.25
Railroad—Union Pac., spur

HARRINGTON-ROBINSON & CO., 110 High St., Boston, Mass.
PRODUCTS—Structural steel

HARRIS STRUCTURAL STEEL CO., 1480 Broadway, New York, N. Y.

HARRISBURG MFG. & BOILER CO., 19th and Naudain Sts., Harrisburg, Pa.

HARRISBURG STAR BOILER CORP., 15 Park Row, New York, N. Y. Plant: Harrisburg, Pa.

HARRISON STRUCTURAL IRON WKS., JACOB, 697 Catherine St., Detroit, Mich.

HARRY BROS. CO. OF LA., 3505 So. Carrollton Ave., New Orleans, La.
Pres. and Pur. Agt.—H. L. Harry
Vice Pres. Sales and Gen. Mgr.—J. S. Cave
Vice Pres. and Chief Engr.—L. W. Benz
Treas. and Sec.—W. C. McEvers
Supt.—A. W. Gatz
Chief Draftsman—E. J. Morano
Mech. and Elec. Engr.—A. L. Robinson
Foreman Blacksmith—Gus Babin
PRODUCTS—Sheet metal work, tanks, towers and buildings
Incorporated—$100,000; issued, $72,600

HARRY STEEL CO., O. K., 2333 Papin St., St. Louis, Mo.
PRODUCTS—Steel tanks and plate work

HARTMAN-GREILING CO., Green Bay, Wis.
PRODUCT—Boilers

HARTUNG, LEWIS, 418 Passaic Ave., East Newark, N. J.
PRODUCTS—Boiler repairs and steel plate work

HARTWELL IRON WORKS, McDonald at Runnels St., Houston, Tex.
Pres.—Arthur E. Hartwell
PRODUCT—Iron work

HARVEY CO., ARTHUR C., 506 Cambridge St., Boston, Mass.
Pres.—Arthur C. Harvey
Vice Pres. and P. A.—Carroll S. Harvey
Treas., Gen. and Sales Mgr.—Edward T. Edmands
P. A. and Sec.—Murray C. Harvey
Pur. Agts.—E. J. Mahoney, L. G. Spooner
Supt. and Storekeeper—C. E. Cross
Chief Engr.—R. C. Freethy
Foreman Mach.—E. Thunell
PRODUCTS—Jobbers iron steel metals
Incorporated

HASSELL IRON WORKS, Colorado Springs, Colo.
PRODUCTS—Steel tanks, structural steel

HASTINGS FDRY. & IRON WORKS, Hastings, Neb.
PRODUCTS—Structural steel and iron work

HAVENS STRUCTURAL STEEL CO., 7319 E. 17th St., Kansas City, Mo.

HAWKES BOILER CO., 140 So. Dearborn St., Chicago, Ill.

HAWLEY & CO., W., 6032 West Fort St., Detroit, Mich.
Watson Hawley, Sherwood J. Hawley, co-partners
PRODUCTS—Power plant contractors and engineers
Partnership

HAY FDRY. & IRON WORKS, Plum Point Island, Newark, N. J.
PRODUCTS—Structural steel and iron work

HAYS MFG. CO., McBride Ave., Mill and Spruce Sts., Paterson, N. J.
PRODUCTS—Boilers, tanks and repair work

HEALY, MICHAEL, 421 Oak St., Toledo, O.
PRODUCTS—Boiler work, steel plate and metal work

HEDDEN IRON CONSTRUCTION CO., Hillside, N. J.
Pres.—A. M. Conneen, Jr.
Vice Pres. and Sec.—Gilbert D. Hedden
Treas.—Eugene B. Hedden
Chief Engr.—Harold M. Ward
PRODUCTS—Structural steel fabrication and erection
Capacity—3,000 tons per month
Incorporated—$500,000
Railroad—L. V.

HEGEWALD CO., CHAS., 21 State St., New Albany, Ind.
Pres.—Arthur F. Hegewald
Pur. Agt.—E. A. Sieveking
Struct. Engr.—Ed. Grose
Chief Draftsman—C. S. Hegewald
Foreman Mach.—H. Ehalt
Ownership—Private
Railroads—Penna., Mon. Southern

HEGGIE & SONS, INC., JAMES G., Joliet, Ill.
Pres.—James G. Heggie
Vice Pres. and Sales Mgr.—John F. Heggie

Treas. and Sec.—C. A. Russell
Pur. Agt.—Paul H. Hoefer
Asst. Gen. Mgr., Chief and Mech. Engr.—Thomas M. Heggie
Mgr. Const.—Robert B. Heggie
Supt.—Wm. R. Heggie
Asst. Supt.—John P. Johnson
Draftsman—R. L. Cary
Elec. Engr.—Fred Birkholz
Foreman Mach.—John Kostelz
Storekeeper—R. H. Hodge
PRODUCTS—Steel plate construction
Capacity—20,000 tons annually
Incorporated
Capital — $500,000; issued, $373,000; bonds, $300,000
Railroads—E. J., C. & A., C. & J. Elec.

HEGGIE, W., 606 No. Joliet St., Joliet, Ill.
PRODUCTS—Boiler repairs and steel plate work

HEIL CO., 1270-1300 26th Ave., Milwaukee, Wis.
PRODUCT—Steel stacks

HEILMAN BOILER WORKS, 102 Linden St., Allentown, Pa.

HEILMAN MACHINE CO., Park and Bell Ry., Evansville, Ind.
PRODUCTS—Boiler repairs and machine work

HEINE BOILER CO., 200 Madison Ave., New York, N. Y. Plant No. 1: 5319 Shreve Ave., St. Louis, Mo.; Plant No. 2: Phoenixville, Pa.
Chairman—Geo. E. Learnard
Treas.—G. H. Hansel
Asst. Sec.—W. Siegerist
Sales Mgr.—E. Lundgren
EQUIPMENT—Plate fabricating machinery
PRODUCTS—High pressure water tube boilers, miscellaneous plate and sheet iron work
Capacity—150,000 H. P. per year
Incorporated—Bonds, $600,000

(At St. Louis, Mo., 5319 Shreve Ave.)
Vice Pres.—E. R. Fish
Vice Pres. and Supt.—F. O. Pahmeyer
Asst. Treas.—G. D. Ellis
Sec.—A. H. Schaum
Pur. Agt.—E. C. Kieckers
Mech. Engr.—J. H. Hinman
Power Engr.—A. Young
M. M.—S. B. Clay
Draftsman—A. H. Egsieker
Foreman—A. Rath
Railroad—Terminal

(At Phoenixville, Pa.)
Supt.—R. F. Burke
Foreman—C. W. Crozier
Railroads—Phila. & Reading

HELLER-ALLER CO., THE, Napoleon, O.
Pres. and Supt.—F. Ritz
Mech. Engr.—Chas. Fruchey
PRODUCTS—Manufacturers of windmills, towers, tanks, pumps
Incorporated—$100,000
Railroads—Wabash, D. T. & I.

HELMICK FOUNDRY MACHINE CO., Eighth St., Fairmont, W. Va.
Pres. and Treas.—Fred Helmick
Vice Pres. and S. M.—Carroll Helmick
Vice Pres., P. A. and G. M.—Louis G. Helmick
Sec.—Hermione Helmick
EQUIPMENT—Coal mine cars, track and screening equipment, structural steel fabrication, general foundry work
Incorporated

HELTZEL STEEL FORM & IRON CO., THE, Warren, O.
Pres., Treas. and G. M.—J. N. Heltzel
Vice Pres. Sales—W. J. Savage
Sec.—W. E. Calderwood
Pur. Agt.—O. W. Davis
Mech. Engrs.—J. H. Groynne and J. J. Murray
Draftsman—George Harin
Foremen—Michael O'Connor, J. Wass, and Thos. McGeary
Storekeeper—R. McCandless
PRODUCTS—Steel forms, sheet steel work, concrete construction
Railroads—On Erie, B. & O., Penna.

HENDRICK MFG. CO., Carbondale, Pa.
Pres.—L. A. Bassett
Asst. to Pres.—D. L. Bassett
Vice Pres. and Treas.—W. T. Colville
Sec.—W. J. Hamilton
Asst. Sec.—K. H. Colville
Pur. Agt.—H. S. Lee
Prod. Mgr.—D. M. Blackburn
PRODUCTS—Perforated metals, elevator buckets, light and heavy steel plate construction, "Mitco" interlocked steel grating and Shur-site stair treads

HENDY IRON WORKS, JOSHUA, 200 Pine St., San Francisco, Cal. Plant: Sunnyvale, Santa Clara Co., Cal.
Pres. and G. M.—F. J. Behneman
Vice Pres. and Asst. G. M.—Morris Levit
Treas.—A. L. Behneman
Sec.—Chas. C. Gardner
Pur. Agt.—E. M. Hyland
Storekeeper—James Watson
Supt.—H. S. Rexworthy
Chief Engr.—Chester B. McAulay
Foreman Mach.—Edward Meinecke
Foreman Repairs—C. Cortage
Blacksmith—L. B. Sours
Foreman Foundry—John Hedley
Foreman Pattern—David Johnson
EQUIPMENT—Gray iron foundry, (capacity 30 tons daily), machine shop, pattern shop, forge and boiler shop, structural shop
PRODUCTS — Industrial and jobbing, (heavy), mining and ore milling machinery, water power plant equipment, hydraulic engineers
Incorporated—$600,000, capital and surplus
Railroad—So. Pac., W. Pac., Santa Fe.

HENNECKE CO., G., 1353 No. Pierce St., Milwaukee, Wis.
PRODUCTS—Structural steel and iron work

HENNESSY, DENNIS, 423 S. West St., Syracuse, N. Y.
PRODUCTS—Boiler repairs and steel plate work

HERBERT BOILER CO., 140 Root St., Chicago, Ill
PRODUCTS—Boilers

HERCULES FLOAT WORKS, 200 Franklin St., Springfield, Mass.
G. M. and Pur. Agt.—F. H. Engelhard
Mgr. Const.—W. A. Engelhard
PRODUCTS—Sheet copper and brass work, non ferrous castings
Capacity—$100,000 yearly
Partnership
Railroads—N. Y. N. H. & H., B. & A., B. & M.

HERRICK IRON WORKS, 18th and Campbell Sts., Oakland, Cal.
Owner and Gen. Mgr.—S. S. Herrick
Pur. Agt.—Fred L. Williams
Storekeeper—J. Carlson
Sales Mgr.—Chas. W. Broyles
Struct. Engr.—H. D. Oliphant
Chief Draftsman—H. D. Oliphant
Foreman Repairs—E. W. Anderson
Blacksmith—C. Retynski
Foreman—E. W. Richards
PRODUCTS—Fabricators of structural steel for buildings, bridges and towers
Capacity—800 tons per month
Private—Invested capital, $200
Railroad—So. Pac., spur track

HERZOG IRON WORKS, THE, Cypress St. and N. P. tracks, St. Paul, Minn.
Pres., Treas. and G. M.—H. F. Fisher
Vice Pres.—Philip W. Herzog
Asst. Treas. and Supt.—H. J. Schuldt
Sec.—M. E. Wagner
Chief Draftsman—C. E. Wielde
PRODUCTS—Fabrication and erection of architectural, ornamental and bronze work
Incorporated—$500,000; issued, $309,000
Railroad—No. Pac. tracks

HETHERINGTON & BERNER, INC., Kentucky Ave. and White River, Indianapolis, Ind.
Receiver—I. W. Lemaux
Gen. Mgr.—H. B. Conklin
Supt.—Edward Devine
Struct. Engr.—C. B. Feasey
Chief Draftsman—John Hurst
Power Engr.—J. E. Swain
Foreman Mach.—Charles Gronauer
Foreman Struct.—Frank Buck
Foreman Foundry—Charles I. Parks
Foreman Pattern Shop—Chas. Gillespie
PRODUCTS—Structural steel fabricators, gravel pumps, general machine
Incorporated

HEWES & PHILLIPS IRON WORKS, 8 Orange St., Newark, N. J.
PRODUCTS—Boilers, etc.

HEYL & PATTERSON, INC., 51 Water St., Pittsburgh, Pa.

HIBBEN & CO., 9376 Ewing Ave., Chicago, Ill.
Pres. and Gen. Mgr.—George Hibben
PRODUCTS—Boilers

HICKS & SON CO., S. D., Cambridge, Mass.
PRODUCTS—Boilers

HIGHWAY IRON PRODUCTS CO., MacDuff Ave. and S. & L. Ry., Jacksonville, Fla.
Pres., G. M. and P. A.—C. V. Joseph
Vice Pres.—Leo Loeser
Treas.—H. F. Loeser
Sec.—M. W. Loeser
Supt.—E. A. Adamson
Chief Engr.—W. B. Hill
PRODUCTS—Fabricators of structural steel
Incorporated—$106,000
Railroad—I. A. L. Ry.

HILL, THOMAS D., 2314 No. 8th St., Philadelphia, Pa.
PRODUCTS—Boiler repairs and steel work

HILLS-SUTTON CO., El Paso, Tex.
Pres.—E. G. Hills
Vice Pres., Pur. Agt. and Gen. Mgr.—R. B. Sutton
Treas. and Sec.—D. B. Peebles
Supt.—R. J. Ritchie
PRODUCTS—Tanks, sheet metal
Incorporated—$75,000
Railroad—Tex. & Pac.

HINER STRUCTURAL STEEL CO., Canton, O. Plant: Louisville, O.
Pres. and Treas.—Geo. H. Charls
Vice Pres.—Dan Hoover
Vice Pres.—Paul Belden
Asst. Sec. and Asst. Treas.—A. E. Hockwalt
Sec.—John Quinn
Gen. Mgr.—Guy C. Hiner
Incorporated—$300,000; issued, $192,000
Railroads—3 Roads, Penna., B. & O., W. & L. E.

HINKLE STEEL CONSTRUCTION CO., 534 W. 56th St., New York, N. Y.
Pres. and Treas.—Robert E. Magee
Vice Pres. and Chief Engr.—Frederick Meister
Sec. and Pur. Agt.—James H. Magee
Mgr. Estimating Dept.—Francis J. O'Donnell
Supt. Shop—Wm. H. Pritzkow
Supt. Const.—Wm. J. Kenny
PRODUCT—Structural steel
Capacity—15,000 tons
Incorporated—$75,000

HITNER'S SONS CO., HENRY A., 4501 Richmond St., Philadelphia, Pa.

Pres. and G. M.—Joseph G. Hitner
Treas.—W. Perry E. Hitner
Asst. Sec. and Asst. Treas—F. R. Johnson
Sec.—H. A. MacMullan
Pur. Agt.—H. F. George
Asst. Gen. Mgr.—H. A. MacMullan
M. M.—H. Vitt
Foreman Mach. and Repairs—H. Vitt
PRODUCTS—Iron and steel scrap, manufacturers plate washers, new and second hand machinery, contractors' equipment, fabricators structural steel
Incorporated—$300,000
Railroads—P. R. R., P. & R. and docks on Delaware River

HODGE BOILER WORKS, 99 Sumner St. Plant: 87 to 111 Sumner St., East Boston, Mass.
Pres.—Henry H. Lynch
Vice Pres.—Frank J. Holdenied
Treas.—John E. Lynch
PRODUCTS—Boilers, stand pipes, tanks, digestors, smoke stacks, smoke flues and all kinds of steel plate work, marine and steamship repairs
Incorporated

HOEBNER & SONS, Lansdale, Pa.
PRODUCTS—Boiler repairing and steel work

HOFFMAN HEATER CO., Louisville, Ky.
Pres.—A. H. Babcock
PRODUCTS—Stoves, heaters, etc.

HOFIUS STEEL & EQUIPMENT CO., 1st Ave. So. & Hudson, Seattle, Wash.
Pres. and Treas.—Lacy Hofius
Vice Pres. and S. M.—Rodney Pennoyer
Sec.—W. C. Fowler
Pur. Agt.—C. R. Cook
Supt.—C. A. Cheshire
Chief and Struct. Engr.—H. F. Miller
Chief Draftsman—Ben Hewett
EQUIPMENT—4 electric cranes, L shear, hot saw, cold saw, 4 punches, milling machines, lathes, drills, 6 bull riveters, plate shear, etc.
PRODUCTS—Fabricating structural steel
Capacity—1,000 tons per month
Incorporated—$200,000
Railroads—Joint track N. P., G. N., O. & W. Ry.

HOLAN METAL PRODUCTS CO., 405th and Clark Sts., Cleveland, O.
PRODUCTS—Steel plate work

HOLLBROOK CO., J. F., 310 E. Market St., Los Angeles, Cal.
PRODUCTS—Steel tanks

HOLMES IRON CO., cor. West and Forest, Rutland, Vt.
Pres.—F. D. White
Vice Pres. and Treas.—John E. Holmes
Sec.—H. B. Holmes
PRODUCTS—General steel work
Capacity—500 tons annually (estimated)
Incorporated 1907—$25,000
Railroad—Public siding

HOLMES, SAMUEL, 40 W. 5th St., Salt Lake City, Utah
PRODUCTS—Boilers, tanks and steel work

HOLZER, R. G., ESTATE OF, 317 Burgundy St., New Orleans, La.
PRODUCTS—Portable buildings

HOME INDUSTRY IRON WORKS, 206 No. Water St., Mobile, Ala.
PRODUCT—Steel tanks

HOMESTEAD IRON WORKS, 115 W. 5th Ave., Homestead, Pa.
Pres.—A. M. Haymaker
Treas., Sec. and Pur. Agt.—D. J. Daly
PRODUCTS—Structural steel
Capacity—2,000 tons per year
Incorporated—$50,000; issued, $16,700

HONHORST CO., JOS., THE, 1016-20 W. 6th St., Cincinnati, O.
Pres.—H. E. Honhorst
Vice Pres., Treas. and G. M.—C. W. Luhn
Sec.—R. E. Hayden
Pur. Agt.—R. B. Monnig
Sales Mgr.—L. A. Hess
Supt.—O. H. Edwards
Foreman Mach.—Payne Parker
EQUIPMENT—For working sheets from No. 16 gauge to ¼-inch, either riveted or welded
PRODUCTS—Sheet steel and plate construction
Capacity—30 tons per month
Incorporated—$30,000; issued, $28,200

HOOK, HARRY M., 405 W. Fortune St., Tampa, Fla.
PRODUCTS—Boiler repairs and steel plate work

HOOVER & SONS, ALONZO, Hackettstown, N. J.
PRODUCTS—General repair work

HOQUIAM STEAM BOILER WORKS, Hoquiam, Wash.

HORN STRUCTURAL IRON WORKS, WM., 346 No. Leavitt St., Chicago, Ill.

HORTON STEEL CO., LTD., Bridgeburg, Ont.
Sales and Gen. Mgr.—Carl H. Scheman
PRODUCTS — Elevated, storage, wash-water, water, surge, molasses, chip and pulp tanks, riveted pipe, penstocks, standpipes, chimneys, gas holders, barking drums, digestors, steel plate construction
Incorporated

HOTCHKISS STEEL PRODUCTS CO., INC., 9 Griswold St., Binghamton, N. Y.
Pres. and Treas.—H. A. Speh
Vice Pres. and G. M.—M. G. Schneider
Sec.—Harry Yetter
Pur. Agt. and Asst. G. M.—E. T. Harrold
Supt.—D. Hennessey
PRODUCTS—Heavy sheet metal work, (chiefly road rails)
Incorporated—$45,500; bonds, $30,000

HOUGH, T. M., Mannington, W. Va.
PRODUCTS—Boiler repairs

HOWARD SHIP YARD, Jeffersonville, Ind.
Pres. and G. M.—Jas. E. Howard
Vice Pres.—Ed. J. Howard
Sec. and Treas.—Mrs. Lorretta M. Howard
Pur. Agt.—W. H. Dickey
Mgr. Construct.—Walter Brendel
Supt.—P. W. Howard
Chief Engr.—Frank F. Hurst
Chief Draftsman—Alva L. Landwehr
Blacksmith—John Ogle
PRODUCTS—Towboats, ferryboats, packets and all kinds barges
Incorporated

HOWELL & CO., R. R., 31st and 14th St., Minneapolis, Minn.
PRODUCTS—Boilers

HUMMEL MFG. CO., Montrose and LaSalle St., St. Louis, Mo.
Pres., G. M. and Pur. Agt.—C. M. Hummel
VicePres.—H. A. Bradt
Treas.—L. C. Hummel
Sec.—F. J. Adelsberger
Storekeeper—Al. Dehlan
Mgr. Const.—Louis Schewe
Draftsman—Geo. Murphy
Foreman Mach.—F. Jasenbach
Foreman—Wm. McConn
PRODUCTS—Tanks, smoke stacks, steel dump bodies, etc.
Incorporated—$40,000; issued, $35,000

HUNTINGTON BOILER WORKS, 11th St., Huntington, W. Va.
PRODUCT—Structural steel

HURLEY, JOHN E., 1219 Ohio Ave., Washington, D. C.
PRODUCTS—Boiler repairs and steel plate work

HUTTER CONSTRUCTION CO., Fond du Lac, Wis.

HYGRADE IRON WORKS, INC., (formerly J. Cutler Iron Works), Lombardy St., Vandervoort Ave. and Antony St., Brooklyn, N. Y.
Pres.—J. Cutler
PRODUCTS—Steel fabricators and engineers

I

IDEAL BOILER WORKS, 16 Kochne St., Indianapolis, Ind.
Gen. Mgr.—Wm. J. Breen
Foreman Repairs—Chas. Chastain
PRODUCTS—Sheet iron and boiler repairs

IDEAL FURNACE CO., 541 Seneca St., Buffalo, N. Y.

ILLINOIS SHEET METAL WORKS, Bushnell, Ill.

ILLINOIS STEEL BRIDGE CO., 205 Allen Ave., Jacksonville, Ill.
Pres.—W. E. Crane
Vice Pres., Pur. Agt. and Gen. Mgr.—T. A. Chapin
Vice Pres. and Sales Mgr.—N. McMurphy
Treas.—E. E. Crabtree
Asst. Treas.—M. W. Osborne
Sec.—T. W. Beadle
Storekeeper—F. R. Mathews
Works Mgr.—S. M. Foley
Mgr. Const.—R. C Singley
Supt. Power and Elec. Engr.—A. H. Rabjohns
Supt.—W. C. Rabjohns
Chief Engr.—P. T. Walton
Struct. Engr.—E. E. Lushbaugh
Chief Draftsman—A. L. Conlee
Mech. Engr.—Fred Runkel
Traffic Mgr.—H. L. Hutches
Foreman Blacksmith—Fred Atkinson
PRODUCTS — Fabricators of structural steel
Incorporated—$450,000
Railroad—Switch track to plant

INDEPENDENT BRIDGE CO., May Bldg., Pittsburgh, Pa.

INDIANA BRIDGE CO., Macedonia Ave., Muncie, Ind.
Pres.—C. M. Kimbrough
Vice Pres.—F. H. Kimbrough
Treas., Sales and Gen. Mgr.—J. L. Kimbrough
Sec.—J. R. Marsh
Pur. Agt.—G. E. McCarty
Storekeeper—F. M. White
Mgr. Const. and Supt.—H. E. Barrett
Chief Engr.—J. R. Marsh
Chief Draftsman—G. F. Anspaugh
M. M.—Everett Ogle
PRODUCTS—Structural steel for buildings, bridges, etc.
Capacity—15,000 tons annually
Incorporated—$500,000
Railroads—C. C. C. & St. L., Penna., Nickel Plate, C. & O.

INDUSTRIAL EQUIPMENT CO., THE, 115 Ohio St., Minster, O.
Pres. and Gen. Mgr.—J. W. Eiting
Vice Pres.—L. G. Fischer
Treas.—A. Schunck
Sec.—Miss Hilda Frericks
Pur. Agt. and Asst. Gen. Mgr.—E. A. Frey
Foreman Mach.—Albert E. Anderegg
PRODUCTS—Locomotives and cars, foundry equipment
Incorporated—$100,000
Railroads—N. Y. C., St. L., West. Ohio

INDUSTRIAL BROWNHOIST CORP., 135 Washington Ave., Bay City, Mich. Plants: Bay City, Mich., Cleveland and Elyria, O.
Pres.—A. C. Brown, Cleveland
Vice Pres.—Melvin Pattison, Cleveland
Vice Pres. Sales—H. G. Steinbrenner, Cleveland
Vice Pres., Opr.—H. H. Perry
Asst. to Vice Pres.—W. H. Smith, Cleveland

Treas.—H. H. Brown, Cleveland
Asst. Treas.—A. J. Copeland
Sec.—E. S. Clark
Pur. Agt.—T. B. Bolton, Cleveland
Works Mgr.—W. B. Perry
Asst. Supt.—C. E. Smith
Supt.—J. N. Nelson
Chief Mgr. (Cranes)—J. C. Wheat
Mech. Engr.—C. U. North
Elec. Engr.—J. W. Seaman
Asst. Elec. Engr.—D. Auger
Prod. Engr. J. S. See
Steam Engr.—L. C. White
M. M.—M. Crawforth
Met.—S. R. Robinson
Chief Chemist—Wm. Van Egmond
Safety Insp.—A. W. Bradfield
Mach. Shop Supt.—F. L. Wild
Draftsman—G. R. Smith
Storekeeper—E. C. Bassett
PRODUCTS—Locomotive and Wrecking cranes, pile drivers, rail saws, steam hammers, buckets, crawling tractor cranes, shovels, draglines, transfer tables, etc.
Railroads—Mich. Cent., Pere Marquette, G. T.

INGALLS IRON WORKS CO., THE, 720 Ave. D, Birmingham, Ala.
Pres. and G. M.—R. I. Ingalls
Vice Pres. and Sales Mgr.—W. R. Guest
Sec. and Treas.—C. W. Zander
Pur. Agt.—R. D. Leach
Storekeeper—W. F. Engleman
Mgr. Const.—P. A. Long
Supt.—Jas. E. Millar
Struct. Engr.—R. E. Heffield
Chief Draftsman—O. D. Whitaker
M. M.—G. G. Sauls
Elec. Engr.—Joe Blake
Foremen—F. E. Morgan, W. H. Hadden, C. S. Millar
EQUIPMENT — Structural, blacksmith, machine shops, electric and gas welding, ornamental iron shop
PRODUCTS—Structural steel, ornamental iron, tanks, plate work
Capacity—36,000 tons yearly
Incorporated
Railroad—L. & N. R. R., 2 sidings

INSLEY MFG. CO., 801 N. Olney St., Indianapolis, Ind.
Pres.—W. H. Insley
Vice Pres.—C. S. Wagner
Treas.—F. L. Pfeiffer
Asst. Treas.—F. H. Insley
Sec.—C. H. Wilson
Supt.—W. G. Kay
Struct. Engr.—L. W. Bruck
Chief Draftsman—Wm. Gersert
Incoroporated
Railroad—Private siding

INTERNATIONAL BOILER WORKS CO. East Stroudsburg, Pa.

INTERNATIONAL DERRICK & EQUIPMENT CO., THE, Columbus, O.
Pres.—Harry M. Runkle
Vce Pres. and G. M.—Richard R. Bloss
Treas.—Chas. G. Runkle
Pur. Agt.—Taylor Dunlap
Export Sales Mgr.—Chas. E. Firestone
Supt.—Geo. Dysart
Chief Engr.—Brice Craemer
PRODUCTS—Galvanized steel, oil derricks and oil well equipment, electric power transmission equipment, standard steel buildings, railway floodlight towers and special structures, aviation beacon and floodlight towers, buildings, structural steel, special towers, galvanizing, sherardizing, castings
Railroads—Hocking Valley, Big Four and Penna. Rys. spurs into plant
Incorporated

INTERNATIONAL ENG. WORKS, INC., Waverly St., Framingham, Mass.
Pres.—John J. Prindiville
Sec., Treas. and G. M.—Fred W. Chipman
Supt.—James H. Allison
Chief Engr.—Lawrence W. Trowbridge
Power Engr.—Leland S. Rhodes
EQUIPMENT—Complete tools for plate work
PRODUCTS—Steam boilers of every description and steel plate work
Incorporated—$500,000
Railroads—Boston & Albany siding, direct connection to New Haven Railroad

INTERNATIONAL HEATER CO., 101 Park Ave., Utica, N. Y.
Pres.—F. E. Wheeler
Vice Pres.—H. R. Williams
Vice Pres.—Russel Wheeler
Treas. and Sec.—I. L. Jones
Asst. Treas. and Asst. Sec.—M. J. Beggs
Pur. Agt.—H. A. Chester
Supt.—W. G. Jones
PRODUCTS—Warm air furnaces, steam and hot water boilers
Incorporated

INTERNATIONAL STEEL & IRON CO., Edgar St. and Cleveland Ave., Evansville, Ind.
Pres., Gen. and Sales Mgr.—F. O. Weber
Vice Pres. and Supt.—Henry Bohnsack
Sec.—Henry F. Decker
Treas., Pur. Agt., Asst. G. M. and Mgr. Const.—Wm. J. Walker
Chief Engr. and Draftsman—Ralph Tiebout
Elec. Engr.—T. H. Hagenbook
Foreman—Henry Lindenschmidt
PRODUCTS—Fabricated steel for buildings and bridges, ornamental iron
Capacity—1,000 tons per month
Incorporated—$400,000; all issued
Railroads—Seven; also Ohio River

INTERSTATE BOILER WORKS, 309 14th Ave., No. Portland, Ore.

IOWA BOILER WORKS, 200 E. Court St., Des Moines, Iowa

IOWA BRIDGE CO., Easton Blvd. and E. 9th St., Des Moines, Iowa

IOWA STEEL & IRON WORKS, Cedar Rapids, Iowa

Pres.—John H. Jay
Vice Pres., Gen. and Sales Mgr.—M. B. Trumbull
Sec. and Treas.—Howard Hall
Supt.—M. W. Eaton
Chief Engr.—R. E. Campbell
PRODUCTS—Structural steel and gray iron froundry
Incorporated—$122,500; bonds, $36,000
Railroad—C. R. I. P.

IRON & STEEL BARREL CO., Erie, Pa.
Pres., Treas. and P. A.—W. G. Smart
Vice Pres.—J. A. Turner
Sec.—H. L. Moore
Supt.—N. F. Newport
PRODUCTS—Manufacturers of steel barrels
Capacity—1,000 per day
Railroad—On Nickel Plate siding

IRON & STEEL CONTRACTING CO., 215 San Bruno Ave., San Francisco, Cal.
Pres. and G. M.—W. S. Rea
Vice Pres.—M. E. Rea
Vice Pres.—J. P. Raymond
Pur. Agt.—J. L. Chipelone
Supt.—J. T. Shaler
Foreman—W. Coletti
PRODUCTS—Boilers, tanks, digestors, dryers and steam plants
Capacity—100 tons per month
Incorporated—$10,000
Railroad—Spur

IRONVILLE BOILER WORKS, 2929 Front St., Toledo, O.

IRVING IRON WORKS CO., 3rd and Creek Sts., Long Island City, N. Y.
Chairman—Walter E. Irving
Pres.—Walter E. Irving
Vice Pres.—Stephen M. Bell
Treas. and G. M.—Paul Leon Price
Sec.—Wm. J. Brown
Pur. Agt.—E. M. Kennard
Sales Mgr.—E. E. Brodhead
Mgr. Const.—Maurice Nicholls
Chief Draftsman—Ed. Tippel
PRODUCTS—Irving steel flooring and safesteps
Capacity—6,000 tons annually
Incorporated—$250,000; issued, $150,000
Railroads—Private dock, free lighterage, R. R. siding

ISAACSON IRON WORKS, 2917 E. Marginal Way, Seattle, Wash.
Pres., Treas. and G. M.—John Isaacson
Vice Pres.—Andrew Bernth
Sec. and Pur. Agt.—Henry Isaacson
Asst. Gen. Mgr.—H. W. Smith
Supt.—Andrew Bernth
Chief Engr.—C. W. Cook
Struct. Engr.—G. B. Bergston
Elec. Engr.—Ed. Lindsay
Power Engr.—Tom Colbert
PRODUCTS—Forgings, steel fabricators, engineers
Capacity—300 to 500 tons per month
Incorporated—$450,000
Railroads—Two spurs, C. M. & St. P.

ISRAEL CO., MAX L., EMILY & LOUIE Dayton, O.
Pres. and P. A.—Max Israel
Storekeeper—Al. Shaus
Sales Mgr. and Mgr. Const.—Arnold Israel
Gen. Mgr.—Albert Eichorn
Chief Engr.—H. L. Beeler
EQUIPMENT—For fabricating structural steel and metal stamping
PRODUCTS—Steel structures and metal stampings
Ownership—Private

J

JACKSONVILLE MACH. & BOILER WORKS, 409 Main St., Jacksonville, Ill.
PRODUCTS—Boiler repairs and machine work

JAMESTOWN BOILER WORKS, 712 Monroe St., Jamestown, N. Y.

JANNEY & CO., Montgomery, Ala.
PRODUCTS—Structural steel work

JANSEN IRON WORKS, Oakland, Cal.
PRODUCTS—Structural steel work

JARVIS ENGINE & MACH. WORKS, Lansing, Mich.
PRODUCTS—Engines, boilers and steel plate work, structural steel

JEFFREY & SON, DANIEL, Jeanerette, La.
Pres. and G. M.—Daniel Jeffrey, Sr.
Vice Pres. and Asst. G. M.—Robert W. Jeffrey
Treas. and Mgr. Const.—Daniel F. Jeffrey, Jr.
Sec. and Pur. Agt.—Neill P. Jeffrey
PRODUCTS—Boilers, tanks, structural steel work, sugar house steel plate work, marine, steel hull and marine boilers; irrigation pipes, steel bridges
Capacity—$150,000 to $200,000 annually
Incorporated—$10,000
Railroads—Gulf Coast, Morgan's, La. & Texas, switches

JOHANSON & CO., A., 529 Dorchester Ave., Boston, Mass.

JOHN BOILER WORKS CO., Brazil, Ind.

JOHNSON BOILER CO., C. G., 1445 North 11th St., Omaha, Neb.
Pres. and G. M.—C. G. Johnson
Vice Pres., Sec. and Sales Mgr.—Louis C. Johnson
Treas.—Artaur B. A. Johnson
Pur. Agt.—Harry I. Archibald
PRODUCTS—Boiler and tank repairs, breeching, smoke stacks, coal bunkers, plate and sheet metal work
Incorporated—$25,000
Railroad—On the Union Pac., and have our own switch

JOHNSON BOILER WORKS, Foot of E. Stonewall St., Jacksonville, Fla.
PRODUCTS—Boilers, steel plate work and repairs

JOHNSON CITY BOILER & TANK CO., Johnson City, Tenn.

JOHNSON IRON WORKS, DRY DOCKS & SHIPBUILDING CO., INC., 200 Morgan, New Orleans, La.
Chairman—Warren Johnson
Pres., Gen. Mgr. and Chief Engr.—Warren Johnson
Vice Pres.—Wil. H. Douglas
Sec. and Treas.—Ellis J. Stearns
Pur. Agt.—Joe. Donaldson
Storekeeper—E. Burke
Supt.—Neil A. Armstrong
Chief Draftsman—J. B. Richardson
Supt. and Mech. Engr.—A. J. Leggett
Foreman Mach.—R. Seibenkettle
Foreman Repairs—T. Reagan
Blacksmith—F. Guillot
Boiler Shop Foreman—J. Comfort
Pipe Shop Foreman—O. Brenen
Dockmaster—U. I. Lewis
EQUIPMENT—One 7,000-ton floating dock; one 2,000-ton floating dry dock, and general marine repair plant
PRODUCTS—Marine repair and builders of tug boats
Incorporated
Stock issued—40,000 pref.; 40,000 common; $238,500 outstanding

JOHNSON, PETER, Thief River Falls, Minn.
PRODUCTS—Steel and iron, boiler repair work

JOHNSTON BROS., Ferrysburg, Mich.
PRODUCTS—Boiler repairs, tank and sheet metal work

JOHNSTON IRON WORKS CO., 1133 Concordia Ave., Chicago, Ill.

JONES BOILER CO., WM. B., Streator, Ill.

JONES BROS. STRUCTURAL STEEL CO., So. Walnut St. and B. & O. R. R., Ravenna, O.
Pres. and Mgr. Sales—J. A. Jones
Vice Pres.—G. G. Jones
Treas., Sec. and Supt.—B. F. Jones
Pur. Agt. and Gen. Mgr.—W. R. Jones
PRODUCTS—Fabricated structural steel
Capacity—2,000 tons per year
Incorporated—$65,000
Railroads—B. & O., Penna., Erie

JONES & CO., R. E., Chestnut and Hillside Ave., Franklin, Pa.
PRODUCTS—Steel plate work, boilers

JONES IRON WORKS, 312 Terrace St., Buffalo, N. Y.
PRODUCTS—Structural steel and iron work

JONES & LAUGHLIN STEEL CORP., 311 Ross St., Pittsburgh, Pa.
Chairman—B. F. Jones
Pres.—Chas. A. Fisher
Vice Pres.—Willis L. King
Vice Pres.—G. M. Laughlin, Jr.
Vice Pres.—W. C. Moreland
Vice Pres.—S. E. Hackett
Vice Pres.—T. M. Girdler
Sec.—B. F. Jones, III
Treas.—J. C. Watson
Comptroller—W. J. Creighton
Chief Engr.—D. C. McKeel

(At Keystone Works, Second Ave., Pittsburgh, Pa.)
Gen. Supt.—U. S. McClintic
Asst. Gen. Supt.—H. Layman
M. M.—George Bonheyd

JORSS, A. F., 315 13th St., N. W., Washington, D. C.
PRODUCTS—Structural steel and iron work

JUDSON IRON WORKS, San Francisco, Cal. Plants: Oakland and Emeryville, Cal. See list of officials in B. F. & S. P. section

JUST CO., GEORGE A., 239 Vernon Ave., Long Island City, N. Y.
PRODUCT—Steel fabrication

K

KAINE BOILER WORKS, 326 Court St., Sault Ste. Marie, Mich.

KALAMAZOO BOILER CO., 301 W. Ransom St., Kalamazoo, Mich.

KALAMAZOO FDRY. & MACHINE CO., 586 E. Main St., Kalamazoo, Mich.
Pres.—Fred J. Buckley
PRODUCTS—Structural steel and iron work

KALAMAZOO TANK & SILO CO., Kalamazoo, Mich.
Pres.—M. H. Coombs
Vice Pres.—P. B. Coombs
Treas.—J. E. Anderson
Sec. and Pur. Agt.—J. S. Rockwell
Supt.—Charles Tolhurst

KALMAN STEEL CO., Mutual Life Bldg., Buffalo, N. Y. Plants: Blasdel, N. Y., and Youngstown, O.

KANAWHA MFG. CO., P. O. Box 1244, 1520 Dixie St., Charleston, W. Va.
Pres. and Gen. Mgr.—M. T. Davis, Jr.
Vice Pres.—R. E. Whitteker
Treas. and Sales Mgr.—C. E. Parks
Sec.—E. H. Jones
Pur. Agt.—D. P. Reed
Supt.—W. B. Craver
Chief Engr.—W. F. Schadel
Foreman Mach.—J. H. Cogswell
Foreman Blacksmith—Ed. Moran

Foreman Fdry.—Peter Young
Foreman Struct.—Scott Perry
EQUIPMENT—Machine, forge, structural, car wheel, pattern shops and foundry
PRODUCT—Mining equipment
Incorporated—$500,000
Railroads—C. & O., N. Y. C., B. & O.

KANE BOILER WORKS, Galveston, Tex.
Pres.—J. J. Kane
Sec.—R. A. Stewart
Gen. Mgr.—Jos. J. Kane
Supt.—F. J. Mullis
PRODUCTS—Pipe, dredge pipe, well casing, gas mains and irrigation
Capacity—Approximately 10,000 tons annually
Railroad—Plant situated on I. & G. N. tracks

KANE, JOHN, Nyack, N. Y.
PRODUCTS—Boiler and steel repair work

KANES, JOSEPH M., 4848 Barkeville, Cross Road, Pittsfield, Mass.
PRODUCTS—Boilers, repairs and steel plate work

KANSAS CITY BOILER CO., 607 W. 5th St., Kansas City, Mo.

KANSAS CITY BRIDGE CO., Kansas City, Mo.

KANSAS CITY STEEL TANK CO., Kansas City, Kan.
Pres.—James H. Flannery, prop.
Foreman Tank Shop—Jack Morgan
Foreman Welding Shop—Ed. Barry
PRODUCTS—Steel tanks for oil, water, gasoline, etc.; sheet steel manufacture
Ownership—Private
Capital—$20,000
Railroad—Rock Island R. R.

KANSAS CITY STRUCTURAL STEEL CO., 114 W. 10th St., Kansas City, Mo. Plant: 21st and Metropolitan Ave., Kansas City, Kan.
Pres. and Gen. Mgr.—Howard A. Fitch
Vice Pres. and Supt.—O. C. Smith
Vice Pres. and Sales Mgr.—Neil G. Lilley
Vice Pres. and Treas.—Fred H. Fitch
Asst. Treas.—George W. McCamish
Sec.—John P. Cooper
Pur. Agt.—Roy J. Koontz
Storekeeper—W. A. McMaster
Sales Mgr.—Neil G. Lilley
Asst. Gen. Mgr.—Joseph A. Zwaschka
Mgr. Const.—Thomas W. McCurnin
Supts., Const.—Jos. H. Gordon, H. P. Knight
Supt. Plant—John J. Sullivan
Chief Engr.—A. M. Meyers
Struct. Engr.—W. D. Truman
Chief Draftsman—R. B. Houston
M. M.—Frank Sauer
PRODUCTS—Fabrication and erection of structural steel buildings, bridges, tanks, refinery equipment, etc.
Incorporated—$1,500,000; bonds, $642,500
Railroad—Plant situated on the Santa Fe in Kansas City, Kan.

KANSAS CITY WIRE & IRON WORKS, 1430 Oak St., Kansas City, Mo.
A. G. Sutherland, Jr., Prop.
Sales Mgr.—W. G. Moore
Gen. Mgr.—C. C. Horter
Struct. Engr.—A. Rainey
PRODUCTS—Structural
Capacity—100 tons per month
Railroad—Private switch on K. C. Terminal R. R. Co.

KATCHEN IRON WORKS THE B., 107 Hunterdon St., Newark, N. J. Plant: Irvington, N. J.

KAW STEEL CONSTRUCTION CO., THE, First St. and Walker Ave., Kansas City, Kan.
Pres.—Fred G. Palmer
Vice Pres.—Eugene L. Hudson
Treas. and Sec.—R. S. Wilkins
Pur. Agt.—Ross Fuller
Sales Mgr. and Asst. G. M.—Chas. F. DeBrunner
Gen. Mgr.—Eugene L. Hudson
Supt.—C. E. Weidner
Chief Engr.—C. B. Tenhagen
Storekeeper—Oscar Hudson
EQUIPMENT—Three 5-ton, 15-ton, one 16-ton, one 20-ton traveling cranes; one 21-ft. 6-inch split stake type hydraulic riveter with all the necessary punches, rolls, drills, welding, etc., for the heavy work of a large shop
PRODUCTS—Plate work, steel tanks, oil refinery equipment
Incorporated—$175,000; all issued; bonds, $108,000

KAYSING IRON WORKS, 2710 No. 25th St., St. Louis, Mo.
PRODUCTS—Structural steel and iron work

KEELER CO., E., 240 West St., Williamsport, Pa.
Pres. Edgar Munson
Treas. and Gen. Mgr.—F. T. Moore
Sec. and Pur. Agt.—J. F. Goodenow
Sales Mgr.—E. G. Wein
Chief Draftsman—H. P. Sloatman
Mech. Engr.—C. E. Robinson
Power Engr.—Floyd Punches
Elec. Engr.—Jack Weymouth
PRODUCTS—Water tube, cross drum, longitudinal drum, return tubular, and portable boilers; stack and plate metal work
Capacity—$1,000,000 annually
Incorporated—$250,000; issued, $200,000; surplus, $995,688
Railroad—Penna.

KEHOE IRON WORKS, 646 Broughton St., E. Savannah, Ga.
PRODUCTS—Steel plate work and tanks, boilers

KELKER BLOWER CO., INC., 2383 Fillmore Ave., Buffalo, N. Y.
Pres.—Charles Kelker, Sr.
Sec.—Edw. H. Luders
PRODUCTS—General sheet metal work
Incorporated—$26,800

KELLOGG BROS., 934 Railroad St., Jacksonville, Ill.

KELLOGG CO., M. J., Jersey City, N. J.

KELLOGG STRUCTURAL STEEL CO., 31 Stone St., Buffalo, N. Y.

KELLY MFG. CO., THE, 810-820 Hopley Ave., Bucyrus, O.
Pres.—T. F. Kelly
Sec. and Treas.—V. C. Kelly
Foreman—Harry Dunlap
EQUIPMENT—Electric welders, squaring shears, automatic grinders, electric drills, punch presses, painting machines, air compressors, electric grinders
PRODUCTS—Pneumatic tanks, oil tanks, sheet metal work of all kinds
Incorporated
Railroads—N. Y. C., Penna., C. S. W., C. D. & M. Electric
Capital—$45,500

KELLY PLUMBING CO., JAMES J., 419 No. Jackson St., Jackson, Mich.

KELSEY HEATING CO., 277 James St., Syracuse, N. Y.

KENNEDY, JOHN, 54 Cumberland St., Brooklyn, N. Y.
PRODUCTS—Boiler repairs and steel plate work

KENNEDY & SON, P. W., 1201 Beecher St., Indianapolis, Ind.

KENNETT ENGINE & BOILER WORKS, Kennett, Mo.

KENNY BOILER & MFG. CO., 423 E. Sixth St., St. Paul, Minn.
Gen. Mgr.—L. T. Kenny
Asst. Gen. Mgr.—Philip J. Kenny
Foreman—Oscar Green
PRODUCTS—Steel
Ownership—Private
Railroads—Soo, C. B. & Q.

KENOSHA BOILER & STRUCTURAL CO., 1302 42nd St., Kenosha, Wis.
Pres. and G. M.—Chas. N. Stevens
Vice Pres. and Treas.—Wm. G. Bloxdorf
Sec.—A. F. Jankus
Supt.—R. G. Goosen
PRODUCTS—Structural steel, heavy plate and tank work
Incorporated—$10,000
Railroad—C. & N. W.

KENWOOD BRIDGE CO., 38 So. Dearborn St., Chicago, Ill.
Owned by McClintic-Marshall Co., Pittsburgh, Pa.

KETTLER-ELLIOTT CO., THE, 3101 So. California Ave., Chicago, Ill.
Pres. and Treas.—A. C. Ketler
Vice Pres.—M. E. Ketler
Sec. and Pur. Agt.—L. McGuire
Struct. Engr.—Charles F. Mueller
PRODUCT—Bridge construction
Incorporated—$100,000
Railroad—C. & I. W.

KEWANEE BOILER CO., Franklin and C. B. I. Trucks, Kewanee, Ill.
Pres.—E. E. Baker
Vice Pres. and Treas.—B. F. Baker
Asst. Treas.—Arthur Cook
Sec.—H. D. Cherry
Asst. Sec. and Pur. Agt.—E. F. Wagner
Sales Mgr.—R. B. Dickson
Gen. Mgr.—M. F. Moore
Supt. (boiler shop)—D. B. Moore
Supt. (radiator shop)—E. W. Beckman
Chief and Mech. Engr.—C. E. Bronson
Power Engr.—Thomas Laity
Foreman Mach.—F. E. Bailey
PRODUCTS—Steel boiler, radiators of cast iron
Capital—$7,000,000
Incorporated
Railroad—C. B. & Q.

KEYSTONE BOILER & FDRY CO., Broad St., Landisville, Pa.
Owners—H. B. Stauffer and F. B. Stauffer
PRODUCTS—Steel constructed house heating boilers
Capacity—1,000 boilers per year
Partnership
Railroads—Reading, Penna.

KEYSTONE BOILER & SHEET IRON WORKS, 1944 No. Broadway, St. Louis, Mo.

KEYSTONE ENG. CO., Ferguson Bldg., Pittsburgh, Pa.

KEYSTONE TANK & BOILER WORKS, 234 E. Cunningham, Butler, Pa.
Pres. and Treas.—Wm. Horwitz
Vice Pres.—M. A. Berman
Asst. Treas.—W. J. McCaslin
Sec. and P. A.—Sanford Berman
Storekeeper—L. A. Krause
Sales Mgr.—H. Roy Forsythe
Gen. Mgr.—M. A. Berman
Supt.—A. C. Fisher
Chief Engr. and Mgr. Const.—W. H. Lore
PRODUCTS—Manufacturing of tanks, mine cars, smoke stacks and general construction and welding
Railroads—B. & O., P. R. R., and B. & L. E.

KIDWELL BOILER CO., 288 East Water St., Milwaukee, Wis. Plant: 32nd and Hopkins Road, Milwaukee, Wis.
Pres.—E. O. Ellsworth
Vice Pres.—S. H. Markham
Sec. and Treas.—R. W. Campbell
Chief Engr.—N. Appenzeller
PRODUCT—Boilers
Incorporated
Railroads—C. N. W. Ry., C. M. St. P. Ry.

KING BRIDGE CO., Foot E. 60th St., Cleveland, O.

KING BROS., 700 E. 17th St., Portland, Ore.
Pres.—Arthur R. King
Sec. and Treas.—Fred B. King
Gen. Mgr.—Edw. R. King
Chief Engr.—J. F. Hoss
Foreman—Geo. Warner
Foreman—R. G. Armentrout
EQUIPMENT—Punches, plate planers, radial drills, bull riveters, 4 sets plate rolls, bulldozers, and various other machines, 12 electro welding machines
PRODUCTS—Boilers, tanks, pipe, paper mill plate work, structural
Incorporated—$100,000

KING CO., F. E., 119-123 W. 25th St., Norfolk, Va.
Pres.—Frank H. Masi
Sec.—M. P. Masi
Sales Mgr.—J. W. Stickley
Mgr. Const.—E. L. Smith
PRODUCTS — Dust collecting systems, ventilating and sheet metal work
Incorporated

KINGFISHER BOILER & MACHINE WORKS, Kingfisher, Okla.

KINGSFORD FDRY. & MACHINE WORKS, W. 2nd and Erie Sts., Oswego, N. Y.

KINSEY, WM. A., 192 Market St., Newark, N. J.
PRODUCTS—Structural steel and iron work

KIRK & BLUM MFG. CO., THE, 2838-52 Spring Grove Ave., Cincinnati, O.
Pres. and G. M.—S. W. Kirk
Vice Pres. and Treas.—R. J. Blum
Sec. and Sales Mgr.—W. R. Meuttman
Pur. Agt.—C. F. Wulff
Supt.—Jos. A. Falk
Chief Draftsman—J. A. Strobl
Foreman Mach.—G. B. Cook
Foreman—Edw. Thiery
Foreman—F. Weber
PRODUCTS—Sheet metal work
Capacity—Unlimited
Incorporated—$250,000; issued, $232,000
Railroads—B. & O., Big 4, Penna., So., L. & N., N. & W., C. & O.

KITTOE BOILER & TANK CO., THE, Camden Ave. and Bank Place, Canton, O.
Pres., Gen. and Sales Mgr.—G. H. Kittoe
Vice Pres.—C. S. Hoover
Treas.—W. J. Oby
Sec.—E. G. Kittoe
Pur. Agt.—George Working
Supt.—K. Foehrenbach
Foreman Repairs—Harry Harter
PRODUCTS—Steel plate construction
Incorporated—$200,000

KLEIN IRON & FOUNDRY CO., J. B., Oklahoma City, Okla.
Pres.—Wilhelmma Klein
Vice Pres. and Supt.—Wm. Klein
Treas., Sec. and Gen. Mgr.—R. W. Robberson
PRODUCTS—Reinforcing structural, ornamental, miscellaneous, steel specializing
Capacity—250 tons per month
Incorporated—$300,000; all issued
Railroads—Five lines

KLEINSTEUBER & SHERMAN, 721 E. Main St., Louisville, Ky.
PRODUCTS—Boilers and tanks

KLING BROS. ENGINEERING WORKS, 1300 No. Kostner Ave., Chicago, Ill.
Pres.—C. W. Kling
Vice Pres. Opr.—O. E. Kling
Treas. and Sec.—J. B. Kling
Pur. Agt.—I. E. Keil
Chief Engr.—H. J. Asgaard
Power Engr.—B. Busch
Foreman Mach.—A. M. Way
EQUIPMENT—Structural, machine and pattern shops; foundry
PRODUCTS—Structural bending, punches, shears, plate rolls, gray iron castings
Capacity—Gray iron castings up to 25 tons machinery up to 125 tons
Incorporated
Railroads—C. & N. W., switch

KLOSSET, GEORGE, 1057 Lafayette Ave., Brooklyn, N. Y.
PRODUCTS—Boiler work, repairs, etc.

KNOWLTON IRON WORKS CO., Everett, Mass.
Pres.—Richard W. Knowlton
Treas. and G. M.—Carroll B. Knowlton
Pur. Agt. and Mgr. Const.—A. A. Swanson
PRODUCTS — Fire escapes, iron stairs, fences, grills, railways, etc.
Capacity—$75,000 to $100,000 per year
Incorporated—$4,000

KNOXVILLE BOILER WORKS, 1041 Lee St., Knoxville, Tenn.

KNOXVILLE FDRY. & MACHINE CO., 201 East Jackson Ave., Knoxville, Tenn.
Pres.—John P. Staub
Vice Pres., Treas. and Sec.—F. W. Sobolewski, Sr.
Pur. Agt., Sales and Gen. Mgr., Chief Engr. and Draftsman—G. H. Menke
Asst. Gen. Mgr., Supt. and Foreman Machinist—E. C. Sullivan
Foreman Steel Shop—Wm. Baugh
Foreman Foundry—O. B. Houser
PRODUCTS—Structural steel, general machine work and plate work
Incorporated—$50,000
Railroads—Southern, L. & N.

KOENIG, EDWARD L., 23 W. Kinzie St., Chicago, Ill.
PRODUCTS—Steel tanks

KOHLHOFER, JOHN F., 733 E. Fort St., Baltimore, Md.

PRODUCTS—Boiler repairs and tank work

KORALEWSKY, G. L., Dunbar Ave., Boston, Mass.

KOVEN & BROS., INC., L. O., 154 Ogden Ave., Jersey City, N. J. Plants: Patterson Plank Road, Jersey City, N. J.
Pres. and Gen. Mgr.—Gustav H. Koven
Vice Pres. and Treas.—L. O. Koven
Asst. Treas. and Asst. Sec.—A. C. Hanson
Sec. and Sales Mgr.—Wm. Schulmerich
Pur. Agt.—J. MacIntosh
Gen. Supt.—John J. Currey
Chief Engr.—Otto Fisher
M. M. and Power Engr.—Theodore J. Koven
Foreman Mach.—Jerome Miller
PRODUCTS—Special sheet steel and steel plate work
Capacity—20 tons per day
Incorporated—$1,620,000
Railroads—N. J. Junction, connecting with all trunk lines, West Shore

KRASSER & CO., F., 31 George St., Boston, Mass.

KRATZER CO., W. N., 3212 Smallman St., Pittsburgh, Pa.
PRODUCTS—Structural steel work

KRENZ BOILER WORKS CO., 1706 Summit St., Toledo, O.
Pres.—R. W. Krenz
Vice Pres.—Arthur Keyes
Treas. and Sec.—Etta M. Keyes
Pur. Agt.—Wm. Krenz
Chief Draftsman—George Krenz
Foreman—Burton Roberts
PRODUCTS—Boilers, stacks, sheet iron, Krenz Toledo incinerator
Incorporated—$20,000

KRETCHNER MFG. CO., Council Bluffs, Iowa
PRODUCTS—Steel tanks

KRIES & SONS CO., HENRY A., 6 W. Lombard St., Baltimore, Md.
Pres. and Mgr. Const.—Henry A. Kries
Treas. and Pur. Agt.—Clarence A. Kries
Sec. and Struct. Engr.—Henry E. Kries
Supt.—C. A. Dubreuil
Draftsman—C. Snyder
Foreman Mach.—A. Hofferberth
Storekeeper—B. F. Pierpoint
PRODUCTS—Heating and ventilating and power plant equipment
Capital—$50,000

KRIVTSKY & CO., 217 Albany St., Boston, Mass.

KUES BROTHERS, Carter Ave. and 175th St., New York, N. Y.

KULICH, S., 2262 Amsterdam Ave., New York, N. Y.
PRODUCTS—Boilers, repairs, etc.

KUTZTOWN FOUNDRY & MACHINE CO., INC., Kutztown, Berks County, Pa.
Pres.—G. T. Shantz, Philadelphia
Vice Pres.—Chas. Edgerton, Philadelphia
Treas. and G. M.—Arthur Bonner
Sec. and Sales Mgr.—Irvin Bair, Phila.
Pur. Agt.—Ira C. R. Guldin
Chief Engr.—O. Mantius
EQUIPMENT—Pattern shop, foundry making medium sized gray iron castings from 5 lbs. to 10 tons; foundry 360 ft. long, largest crane 25 tons; machine shop 200 ft. long, equipped with 10-ton cranes; largest vertical boring mill takes 16 ft. diameter and 10 ft. high
PRODUCTS — Evaporators, condensers, large special piping, garbage castings
Capacity—Up to 50 tons cast per day
Incorporated
Railroad—Reading

KYLE & CO., INC., 333 G. St., Fresno, Cal.
Pres.—H. Mortenson
Vice Pres., Treas. and Gen. Mgr.—J. G. Teeple
Sec.—A. G. Kazebeer
Pur. Agt. and Sales Mgr.—Charles Connors
Storekeeper and Foreman—H. Arnold
Struct. Engr.—G. W. Brandon
Foreman—J. Bauers
PRODUCTS—Reinforcing and structural steel work, ornamental iron
Incorporated
Railroads—S. P., Santa Fe

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LACEY MFG. CO., 200 So. Spring St., Los Angeles, Cal.
PRODUCTS—Steel stacks

LaCROSSE BOILER CO., 418 Gould St., LaCrosse, Wis.

LADD WATER TUBE BOILER CO., First National Bank Bldg., Pittsburgh, Pa. Plant: Wilkinsburg, Pa.
Chairman—George E. Learnard, New York City
Pres.—George T. Ladd
Vice Pres.—H. D. Savage, New York City
Treas.—George H. Hansel, New York City
Asst. Treas.—Robert E. Chew
Sec.—George H. Hansel, New York City
Engr. Mgr.—F. P. Fairchild
Chief Draftsman—H. H. Sheaff
Foreman—J. N. Burke
PRODUCTS—Ladd water tube boilers
Incorporated
Railroad—Penna.

LAFAYETTE ENGR. CO., Lafayette, Ind.
PRODUCTS—Structural steel work

LAKE ERIE BOILER WORKS, 2503 Elm St., Cleveland, O.

LAKE SHORE ENGINE WORKS, Marquette, Mich.
Pres.—F. H. Begole

Vice Pres. and G. M.—E. L. Pearce
Treas.—J. E. Sherman
Sec. and Asst. Treas.—D. M. Begole
Supt.—George Honner
Chief Engr.—Alex. Finlay
Foreman Mach.—Henry Ragusett
Foreman Fdry.—Elmer Ekstrom
Foreman Plate Shop—George Odette
Foreman Pattern Shop—J. F. Delaney
EQUIPMENT—Machine shop, foundry, plate, structural and pattern shops
PRODUCTS—Engineers, founders, machinists
Incorporated—$300,000
Railroads—D. S. S. & O. Ry., L. S. & I. Ry.

LAKESIDE BRIDGE & STEEL CO., North Milwaukee, Wis.
Pres. and Gen. Mgr.—S. C. Goddington
Vice Pres., Treas. and Asst. G. M.—Charles G. Margwarth
Vice Pres. and Sales Mgr.—Harvey M. Risseeuw
Sec.—Wm. H. Genske
Pur. Agt.—Walter E. Peters
Storekeeper—Ed. Siegrist
Mgr. Const.—Paul Coddington
Supt.—Richard Sternke
Supt.—J. J. Pentony
Chief Engr.—V. W. Coddington
Struct. Engr.—F. H. Hanmer
Draftsman—O. R. Becker
Foreman Mach.—J. E. Kraner
Foreman Repairs—Chas. R. Beck
PRODUCTS—Structural steel for bridges and structures
Capacity—1,500 tons per month
Incorporated—$500,000; issued $335,000, bonds $145,000
Railroad—C. M. & St. P. Ry.

LAKE WASHINGTON SHIPYARDS, Houghton, Wash.
Pres.—C. A. Burckhardt
Vice Pres.—J. N. Gilbert
Treas. and G. M.—P. E. Voinot
Sec.—J. C. Allison
Pur. Agt.—A. R. Van Sant
Storekeeper—C. Wilcox
Supt.—C. E. Taylor
Chief Engr.—W. Matson
PRODUCTS—Shipbuilding and repairing
Incorporated—$75,000

LANCASTER IRON WORKS, INC., Lancaster, Pa. Two plants at Lancaster, Pa.; wood working plant at New London, O.
Pres. and Gen. Mgr.—Walter W. Posey
1st Vice Pres.—J. P. Martin
2nd Vice Pres.—Carl W. Gram
Sec.—J. S. Posey
Treas.—Arthur R. Campbell
Pur. Agt.—F. H. Cable
Sales Mgr.—A. C. Frickes
Supt.—F. S. Major
Chief Engr.—Frank Herr
EQUIPMENT—Two plate steel fabricating plants, foundry, pattern shop, machine shop and wood working plant
PRODUCTS—Steel plate fabrication, machinery
Incorporated—$1,000,000; bonds issued, $500,000
Railroads—Penna., Reading

LANCASTER STRUCTURAL & FDRY. WORKS, Lancaster, Pa.

LANNING CONSTRUCTION CO., Oskaloosa, Iowa

LAPPAN MFG. CO., JAMES, 20th and Pike Sts., Pittsburgh, Pa.
Pres. and Treas.—James T. Lappan
Sec.—George H. Bock
Gen. Mgr.—Wm. F. Schratz
PRODUCTS—Steel plate construction
Capacity—10,000 to 20,000 tons of fabricated material a year
Incorporated—$210,000
Railroad—Penna. siding

LA SALLE IRON WORKS, 3106-10 La Salle St., St. Louis, Mo.

LASKER IRON WORKS, 32nd and Lincoln Sts., Chicago, Ill.
PRODUCTS—Steel tanks

LATTNER MFG. CO., P. M., 516-20 12th Ave., W., Cedar Rapids, Iowa
Pres. and Gen. Mgr.—P. M. Lattner
Vice Pres.—J. Hamilton Bell
Treas.—R. L. Allender
Sec. and Sales Mgr.—B. P. Lattner
P. A. and Storekeeper—N. V. Engler
Chief Draftsman—W. Temple Taylor
Supt.—Joe Cacek
EQUIPMENT—Steam boilers, hot water boilers, water stills
Capacity—Five boilers per day
Incorporated—$100,000; issued $55,400
PRODUCTS—Steam boilers
Railroads—C. & N. W., C. M. & St. P., C. R. I. & P., Ill. C. and electric

LEADER IRON WORKS, P. O. Box 319, Decatur, Ill.
Pres.—T. E. O'Brien
Vice Pres. Sales—W. P. Stauder
Vice Pres.—L. W. Snerly
Vice Pres. and Supt.—W. F. Canavan
Sec. and Treas.—A. G. O'Neill
Storekeeper—L. G. Shaffer
Sales Mgr., Oil Equip.—C. R. Walmsley
Mgr. Construct—E. C. McDonald
Chief Engr.—C. J. Maier
Mech. Engr.—L. D. Summers
Power Engr.—A. G. Ruffner
Foreman Mach.—W. F. Bailey
Gen. Foreman—Henry Smith
Foremen—Carl Cox, Henry Bundy, Ralph Dusenberry, Roy Coffman, Lawrence Ditmeyer
PRODUCTS—Oil equipment, tanks, railroad equipment
Capacity—6,000 tons per annum
Incorporated
Railroads—I. C., Penna., at Plant; local connection, Wabash, B. & O., I. T. S.

LEBANON BOILER WORKS, Lebanon, Pa.

Pres., Gen. and Sales Mgr.—John Petty
Vice Pres.—M. E. Petty
Treas.—F. B. Dutton
Sec., P. A. and Mgr. Const.—Russell E. Jones
Supt.—John Burkey
PRODUCTS—Boilers and steel plate construction
Capacity—100,000 tons annually
Incorporated

LEETONIA BOILER CO., Kunkle Bldg., Leetonia, O.
Pres.—John Woodward
Vice Pres. and Sales Mgr.—Joseph M. Woodward
Treas. and Pur. Agt.—J. A. Woodward
Sec.—Thos. S. Woodward
PRODUCTS—Tanks, stacks, breechings, hoppers, bins, cranes boilers, platforms, runways, etc.
Capacity—No. 16 gauge to 1 inch
Incorporated—$25,000
Railroads—Erie, Penna., Electric lines

LEHIGH STRUCTURAL STEEL CO., foot of Allen St., Allentown, Pa.
Pres.—Ferdinand Thun
Vice Pres.—T. K. Mullen
Sec.-Treas. and G. M.—Robert L. Kift
Asst. Treas.—Edward F. Reeser
Pur. Agt.—Henry T. Setzer
Plant Supt.—Henry P. Hendricks
Plant Mgr.—Wm. H. Mohr
Mgr. Const.—Wm. A. Gardner
Chief Engr.—H. B. Thorn
Chief Draftsman—Arthur Stewart
Gen. M. M. and Foreman Mach. Shop—Ed. Kresge
Storekeeper—George Schade
Sales Mgr.—Thomas R. Mullen
Foremen—Michael Bartos and James Hahn
Foreman Galv.—Arthur Doelfer
Capacity—3,000 tons per month; 1,000 tons galvanized per month
Incorporated—$1,000,000
Railroads—L. V., C. R. R. of N. J., Reading sidings

LEITELT IRON WORKS, 305 Mill Ave., Grand Rapids, Mich.
PRODUCTS—Boilers, tanks, etc.

LEONARD, W. A., 356 E. 145th St., New York, N. Y.
PRODUCTS—Boilers, repairs, etc.

LESLIE ELLIOTT & CO., Railway Ave., cor. Iowa Ave., Paterson, N. J.
PRODUCTS—Boilers and repairs

LEU, INC., HARRY P., Orlando, Fla. Formerly Cain-O'Berry Boiler Co.
Mgr.—Harry P. Leu
PRODUCTS—Boiler repairing, machinery and mill supplies, pipe and pipe fittings

LEVERING & GARRIGUES CO., 552 W. 23rd St., New York, N. Y. Plant: Dunnellen, N. J.
Pres.—W. A. Garrigues
Vice Pres.—L. L. Gadd
Treas.—F. S. Wells
Asst. Treas.—J. J. Boylan
Sec.—Miss G. L. Howarth
Pur. Agt.—A. J. Glaeser
Sales Mgr.—G. D. McNaughton
Shop Supt.—L. J. Bowlby
Chief Engr.—O. F. Sieder
PRODUCTS—Fabrication and erection of structural steel for structures of every description
Capacity—50,000 tons annually
Incorporated—25,000 shares, no par value
Railroads—Sidings on Lehigh Valley, New Market, N. J.

LEWIS, HENRY B., Ferry Ave. and G. T. R. R., Detroit, Mich.
PRODUCTS—Structural steel and iron work

LEXINGTON ENGINE & MACHINE CO., Lexington, Ky. Formerly Lexington Engine & Boiler Co.
Pres.—R. E. Monroe

LIBERTY IRON WORKS, 170 Alice St., Bridgeport, Conn.
Sales Mgr.—M. Rosenblatt
Mgr. Const.—Philip Hershkovintz
EQUIPMENT—Punching and cutting machines
PRODUCTS—Ornamental iron work
Partnership

LILLY BOILER & IRON WORKS, Carlisle, Ark.
PRODUCTS—Boilers

LIMA ARCHITECTURAL IRON WORKS, Lima, O.
Pres.—Wm. S. East

LINCOLN TANK CO., THE, Electra, Tex.
Owner—W. P. Lincoln
P. A.—F. E. Doores
Gen. Supt.—Abe. Lincoln
PRODUCTS—Bolted and welded steel tanks

LITTLEFORD BROTHERS, 443-457 E. Pearl St., Cincinnati, O.
Gen. Mgr.—Roger S. Littleford
Pur. Agt.—William H. Reuter
Storekeeper—Henry Witmeyer
Mgr. Const.—John S. Littleford, Jr.
Supt.—Elmer J. Byrne
Chief Engr.—Harry F. Griese
Chief Draftsman—George Martin
Foreman Mach.—James Long
Foreman Repairs—George Winkelman
Foremen—Charles Wohlfeil, Joseph Von Wahlde, Nick Byrne, Harry Litmer and Roy Filer
PRODUCTS—Plate steel construction, including tanks, smoke flues, smoke stacks, ducts, etc.
Partnership

LITTLE ROCK BOILER & IRON WORKS, 123 No. Gaines St., Little Rock, Ark.
PRODUCTS—Boiler and steel plate work

LLEWELLYN IRON WORKS, 1200 N. Main St., Los Angeles, Cal.
Pres. and Gen. Mgr.—Reese Llewellyn
Vice Pres. Opr.—Waller Taylor
Vice Pres. Sales—D. E. Llewellyn
Sec.—John Milner
Asst. to Sec. and Chief Engr.—Milton Baruch
Pur. Agt.—H. W. Christensen
Gen. Supt.—Reese H. Taylor
Asst. Gen. Supt.—W. J. Blackburn
Struct. Engr.—Otto Dunkel
Supt. Struct. Erect.—John A. McCone
Elec. Engr.—C. P. Walker
Mech. Engr.—J. Bossart
Steam Engr.—G. S. Blankenhorn
Safety Engr.—C. Giegerich
Mach. Shop Supt.—R. Richards
Draftsman—J. G. Carroll
Struct. Foreman—Walter Carter
Storekeeper—E. A. Hartman
EQUIPMENT—Structural, boiler and tank fabricating shop, machine shops, foundry, forge shops, pattern shop
PRODUCTS—Iron castings, fabricated steel, boiler tanks, machinery
Capacity—1,200 men
Capital—$5,000,000
Railroad—So. Pac.

LOGANSPORT BOILER & MACHINE WORKS, 1404 and 1406 Elm St., Logansport, Ind.
Prop.—E. A. McAllister
PRODUCTS—Boilers, tanks, smoke stacks and all kinds of iron work

LOMBARD IRON WORKS & SUPPLY CO., Augusta, Ga.
Pres. and Treas.—George R. Lombard
Vice Pres.—George S. Lombard
Sec. and Gen Mgr.—J. G. Belding
Pur. Agt.—E. J. Hamahan
Supt.—H. M. Leitner
Mech. Engr.—A. R. Nicholas
Foreman Machinist—W. S. Hair
Foreman Fdry.—A. W. Kendrick
Foreman Boiler Works—W. J. Paul
PRODUCTS—Gray iron castings, machine work, boiler work, mill supplies
Incorporated

LONDON OKKVILLE CO., Chicago Hgts., Ill.
PRODUCTS—Metal grave vaults

LONG MFG. CO., WALTER, 1312 Muriel St., S. S., Pittsburgh, Pa.
Pres. and Owner—Walter Long
Gen. Mgr.—Walter F. Long
Shop Supt.—Albert Long
Asst. Foreman—John Zientarski
PRODUCTS—Manufacturers steel boilers, tanks, stacks and steel plate construction
Railroads—Penna., B. & O. and P. & L. E.

LONGERO BOILER & SHEET IRON WORKS, 2044 15th St., Denver, Col.
PRODUCTS—Boilers and sheet metal work

LOOKOUT BOILER & MFG. CO., Manufacturers Road, Chattanooga, Tenn.
PRODUCTS—Steam power boilers
Incorporated

LOOS BOILER WORKS CO., ADAM, 135 So. Erie St., Toledo, O.

LORD & BURNHAM CO., Irvington, N. Y.
PRODUCTS—Heating boilers

LOS ANGELES BOILER WORKS, 119 W. Redondo St., Los Angeles, Cal.

LOS ANGELES MFG. CO., 2500 E. 23rd St., Los Angeles, Cal.
Pres.—J. H. Mundhenk
Vice Pres. and G. M.—W. C. Bilsborough
Treas. and Sec.—H. F. Smothers
Pur. Agt.—D. R. Manko
Gen. Supt.—W. D. Himes
Asst. Gen. Supt.—Geo. Gansner
Chief Engr.—D. C. Lindley
Draftsman—H. E. Newland
PRODUCTS—Riveted steel pipe, tanks, sheet metal products

LOS ANGELES SHIPBUILDING & DRY-DOCK CORP., Los Angeles Harbor, San Pedro, Cal.
Pres.—Frank P. Flint
Vice Pres.—L. E. Caverly
Sec. and Treas.—E. Lindsay
Asst. Sec. and Asst. Treas.—A. J. Waldorf
Pur. Agt.—Robert W. Long
Storekeeper—W. Lockwood
Sales Mgr.—H. C. Haubold
Gen. Mgr.—L. E. Caverly
Asst. Gen. Mgr.—L. A. Hanson
Engr. Supt.—J. H. Pringle
Hull Supt.—Donald Fraser
Chief Engr.—G. Bruce Newby
Chief Draftsman—Geo. Sutherland
Elec. Engr.—C. C. Gifford
PRODUCTS—Shipbuilding and repairs

LOUISVILLE BRIDGE & IRON CO., 11th and Oak Sts., Louisville, Ky.
Pres.—J. C. Haskins
Vice Pres. Opr.—H. L. Savage
Treas. and Sec.—Thomas W. Kennedy
Gen. Supt.—H. S. Slyh
PRODUCTS—Bridges, buildings, structural steel engineers, fabricators of steel railroad and highway bridges, structural metal work of every description

LOUNSBERY CO., W. A., 341-353 So. Pitcher St., Kalamazoo, Mich.
Pres. and Gen. Mgr.—W. A. Lounsbery
Sec.—D. W. Lounsbery
Asst. Gen. Mgr.—R. W. Hazzard
Foreman Mach.—Worth Martin
Foreman Blacksmith—Albert Hartoog
PRODUCTS—Boilers, heavy plate and structural work, boiler repairs
Ownership—Private

LOWITH IRON WORKS, 2500-2510 East 24th St., Los Angeles, Cal.
Pres., Treas. and G. M.—A. L. Lowith
Vice Pres., C. E. and Supt.—W. H. Bowman

Vice Pres.—A. Hirschfield
Sec.—M. Eckmann
Chief Draftsman—C. I. Little
Foreman—R. Curry
PRODUCTS—Structural steel, ornamental iron, bronze work
Capacity—3,000 tons
Incorporated—$250,000; issued, $175,000
Railroads—U. P., A. T. & S. F., S. P.

LUCAS & SONS, A., 1328 So. Washington St., Peoria, Ill.
Pres., Treas., Pur. Agt. and Gen. Mgr.—Hugo Lucas
Vice Pres.—Helena Erkes
Sec.—C. E. Meyers
Foreman Mach.—Jos. Jessl
PRODUCTS—Fabricators of structural steel and plate work
Capacity—150 tons per month
Incorporated—$25,000
Railroads—Private connection with all roads

LUCIUS MFG. CO., Massillon, O.
PRODUCTS—Steel tanks, etc.

LYNCH & JOHNSON, 53 E. Hunter St., Atlanta, Ga.
PRODUCTS—Tanks

LYONS IRON WORKS, INC., F. P., 5th Ave., 27th to 28th Sts., Tampa, Fla.
Pres. and Treas.—Frank P. Lyons
Sec. and Pur. Agt.—H. K. Ponder
Gen. Mgr. and Chief Engr.—L. A. Hornell
PRODUCTS—Structural and ornamental iron works
Incorporated

LYONS IRON WORKS, INC., F. P., Wellow and Grove Sts., Manchester, N. H.
Pres.—Frank P. Lyons
Treas.—Sam B. Tarrant
Sec. and P. A.—P. W. Sheridan
Gen. Mgr.—H. G. Worrell
Chief Engr.—Otto Hohensee
Chief Draftsman—J. F. Glancy
PRODUCTS—Structural and ornamental iron works
Incorporated

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McALEENAN BROS. CO., 25th and A. V. R. R., Pittsburgh, Pa.
Pres.—G. R. McAleenan
Gen. Mgr.—N. R. Seidle
Treas. and Sec.—W. W. Johnston
Pur. Agt.—C. N. Hinds
Supt.—C. C. Karlen
PRODUCTS—Boilers, tanks, steel plate construction
Capacity—300 to 500 tons monthly
Incorporated
Railroads—Penna., B. & O.

McALPINE A., Lincoln, Neb.
PRODUCTS—Boilers, repairs and iron work

McCABE BOILER WORKS, 195 Commerce St., Newark, N. J.

McCABE & CO., 9 Water St., Lawrence, Mass.
PRODUCTS—Boilers and repairs

McCARTHY, J., 433 Kent Ave., Brooklyn, N. Y.
PRODUCTS—Boiler repairs and iron work

McCATHRON BOILER WORKS CO., THE, 76 Knowlton St., Bridgeport, Conn.
Pres. and G. M.—E. A. Hooper
Treas.—H. N. McCathron
Sec.—D. Garner
Struct. Engr. and Chief Draftsman—D. G. Schmitt
Foreman—Nis. Iverson
PRODUCTS—Boilers, boiler repairing, tanks, smokestacks, structural and sheet iron work of all descriptions; also ornamental iron work
Incorporated—$5,000
Railroads—Boat and rail

McCLINTIC-MARSHALL CO., Oliver Bldg., Pittsburgh, Pa.
Pres.—C. D. Marshall
Vice Pres.—H. H. McClintic
Treas.—E. J. Patterson
Sec.—W. O. Mitchell
Sales Mgr.—C. M. Denise
Gen. Mgr.—E. A. Gibbs
Chief Engr.—G. L. Taylor
PRODUCTS—Manufacture and erect structural steel work
Incorporated

McCLINTIC MARSHALL CO. OF CAL., 842 Pac. Elec. Bldg., Los Angeles, Cal. Plant: Central Ave. and 110th St., Los Angeles, Cal.
Pres.—C. D. Marshall
Vice Pres. and G. M.—W. B. Kyle
Treas.—E. J. Patterson
Asst. Treas.—J. G. McClure
Sec.—A. G. Kaebeer
Sales Mgr.—E. F. Gohl
Supt.—F. C. Todd, Jr.
PRODUCTS—Structural steel
Capacity—18,000 tons per annum
Incorporated—$1,000,000
Railroads—Pac. Elec. Ry., A. T. & S. F., S. P. and U. P.

McCORMICK BROS. IRON WORKS, 617 Bryant St., San Francisco, Cal.
PRODUCTS—Structural steel work

McDANIEL, C. E., 215 So. Wapello St., Ottumwa, Iowa
PRODUCTS—Boilers, repairs and steel tank work

McDERMOTT BROS. CO., 3rd and Washington Sts., Allentown, Pa.
Pres. and G. M.—John H. McDermott
Vice Pres. and Sales Mgr.—Thomas J. McDermott
Treas. and Sec.—Robert T. Reichart

Asst. Treas. and Asst. Sec.—M. Mulhern
Pur. Agt. and Chief Engr.—C. C. Metz
Supt.—Samuel Heckman
Foreman Blacksmith—George Uhl
Foremen—James McNally and Harry Elliott
EQUIPMENT—Punches, shears, bending rolls, bending brake, air compressors
PRODUCTS — Steel plate construction, stacks, tanks, steel bins
Incorporated—$35,000; issued, $32,000

McDERMOTT ENG. CO., Jordan and Whitehall Sts., Allentowwn, Pa.

McDERMOTT, JAMES JR., 38 Brady St., Fall River, Mass.
PRODUCTS—Boilers, repairs and steel work

McDONOUGH IRON WORKS, Galveston, Tex.
PRODUCTS—Boilers

McDONOUGH, J. J., 743 Wheaton St., Savannah, Ga.
PRODUCTS—Boiler repairs and tank work

McDOUGAL & POTTER CO., 14th St. and Rider Ave., New York, N. Y.
Pres.—John M. Piper
Vice Pres. and Treas.—Henry M. Potter
Sec.—Frederick J. Dodd
Pur. Agt.—Joseph F. Foley
Supt.—George Kohler
Chief Draftsman—Edward Osterland
PRODUCTS—Structural and architectural iron and steel work
Capacity—500 tons structural; architectural, $100,000 and over
Incorporated—$50,000
Railroad—Bronx terminal

McEWAN BROTHERS, 4 No. Main St., Wellsville, N. Y.
PRODUCTS—Boilers, tanks, etc.

McFARLAND BROTHERS, 5527 So. State St., Chicago, Ill.
PRODUCTS—Boilers, tanks and repairs

McGIBBON ENGINEERING WORKS, 12 Columbia St., Brooklyn, N. Y.

McGOOKIN, D. H., 1630 No. 9th St., Philadelphia, Pa.

McGOVERN & SMITH, 2054 E. Lehigh Ave., Philadelphia, Pa.
PRODUCTS—Boilers, tanks and general steel work

McILWAIN & SPIEGEL BOILER & TANK CO., Pearl and Lawrence Sts., Cincinnati, O.

McKAIG, MERWIN, Cumberland, Md.
PRODUCTS—Boilers and repairs

McKAY IRON WORKS CO., THE, 1710 Clarkstone Road, Cleveland, O.
Pres. and Sales Mgr.—Robert F. McKay
Vice Pres.—Alfred C. Frank
Treas., Sec., Pur. Agt. and Gen. Mgr.—Archibald McLaren
Mgr. Const.—Charles S. McLaren
Supt.—A. B. Clemens
Struct. Engr. and Chief Draftsman—George H. Rau
Foreman Blacksmith—J. Pavlinsh
Foreman—John C. Green
PRODUCTS—Light structural and ornamental iron work
Capacity—25-ton jobs
Incorporated—$20,000

McKAY & TROUTON, 290 Pacific St., Brooklyn, N. Y.
PRODUCTS—Boilers, etc.

McKEE, ANDREW, 519 W. 125th St., New York, N. Y.
PRODUCTS—Boilers, steel plate work

McKENZIE & GILLESPIE, 22 No. Center St., Boston, Mass.

McKENZIE'S SONS CO., DUNCAN, Hamilton Ave., cor. Clark St., Trenton, N. J.
PRODUCTS—Boiler, tank and steel plate work

McKEON BOILER & REPAIR CO., (formerly Moorhead Machinery & Boiler Co.), 131 Holden St., Minneapolis, Minn.
Prop. Owner and Mgr.—J. G. Moorhead
Supt.—J. H. McKeon
Foreman Mach.—Otto Grosslein
Foreman Boiler Dept.—P. J. McKeon
EQUIPMENT—Machine shop and boiler shop equipment
PRODUCTS—Sand and gravel conveyors, machine work, boiler repair work, portable loaders, revolving screens, dragline buckets, belt conveyors, sprockets and link belting, rubber and leather belting, boilers, tanks and stacks, pulleys, wire rope and sheaves, etc.

McKINNEY & SON, JAMES, Albany, N. Y.
PRODUCTS—Structural steel and iron work

McLAUGHLIN IRON WORKS, 8 Gaillard St., Charleston, S. C.
PRODUCTS—Boilers, tanks and repairs

McMANNUS STEEL CONSTRUCTION CO., INC., R. S., 1254 E. Ferry St., Buffalo, N. Y.
Pres. and Treas.—R. S. McMannus
Vice Pres.—Arthur C. Hoyt
Sec.—Avery J. Pratt
Pur. Agt.—H. H. Johnt
Supt.—M. J. Daumen
Supt.—Fred Young
Chief Engr.—Avery J. Pratt
Chief Draftsman—R. V. Rich
PRODUCTS—Fabricators and erectors of structural steel
Capacity—6,000 tons per year
Incorporated—$100,000 (authorized); issued, $85,400
Railroad—Erie R. R., private siding

McMYLER-INTERSTATE CO., THE, Northfield Road, Bedford, O.
Pres. and G. M.—Robt. W. Kaltenbach
Vice Pres.—George E. Titcomb
Sec. and Treas.—Elijah Bates
Pur. Agt.—E. F. Hammond
Storekeeper—G. B. Cross
Sales Mgr.—M. E. Culhan
Mgr. Const.—O. M. Carse
Supt.—L. E. Guilliford
Chief Engr.—E. A. Hennig
Struct. Engr.—Chas Pichotta
Mech. Engr.—C. W. Benjamin
Power Engr.—Thomas Barco
Elec. Engr.—A. E. Fritsche
Foreman Mach.—A. T. Fronek
Foreman Repairs—Paul Reichle
Blacksmith—F. D. Mitchell
Foreman Struct. Shop—Christ Ruff
Foreman Mico Iron Fdry.—H. W. Farris
Foreman Bucket Shop—H. J. Boyes
EQUIPMENT—Steam, gas and electric shovels and cranes, gantry cranes, ore bridges, car dumpers, cooling towers, special material handling plants, material handling buckets, rubber machinery, coal briquetting machinery, R. R. switch stands, hammered steel forgings, mico iron castings, heavy machine work
PRODUCTS—Heavy machinery
Incorporated 1910—30,000 shares non-par common; 250,000 shares preferred; present issue common, 1922; bonds, $1,199,000 now outstanding; present issue preferred, 1923; bonds, $1,500,00 issued 1923
Railroads—Penna., and W. & L. E.

McNAMARA BROTHERS CO., Westport, Baltimore, Md.
Pres. and Mech. Engr.—Robert J. McNamara
Treas., Sec. and Pur. Agt.—Gerard I. Donovan
Sales Mgr.—S. Michel
Foreman—Wm. F. Brady
PRODUCTS—Steel plate tanks, steel plate construction
Capacity—100,000 tons annually
Incorporated—$50,000
Railroad—B. & O.

McNAUL BOILER MFG. CO., 938 Front St., Toledo, O

McNEIL BOILER CO., THE, 96 E. Crosier St., Akron, O.
Pres. and G. M.—J. B. Campbell
Vice Pres.—F. H. Adams
Sec., Treas. and Asst. G. M.—C. W. Berry
Pur. Agt.—W. E. Wheeler
Sales Mgr.—R. O. Dutt
Chief Draftsman and Mech. Engr.—Thos. Williams
Foreman Mach.—John Leonard
Foreman Repairs—Geo. Koontz
Blacksmith—Geo. Hurr
PRODUCTS—Sheet and heavy steel work and machine shop
Incorporated—$200,000

McNEIL & BRO., CO., JAS., 29th St., Pittsburgh, Pa.
Pres.—Thos. McNeil, Jr.
Sec.—H. K. Stevenson
Treas. and Pur. Agt.—A. E. Anderson
Gen. Mgr.—Arthur Huehri
PRODUCTS—Steel tanks, smokestacks, steel plate construction
Incorporated

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MACAULEY, ARCHIBALD, 133 George St., Boston, Mass.

MACHLER CO., THE PAUL, 2210 W. Lake St., Chicago, Ill.
Pres. and Treas.—Paul Machler
Sec. and Gen. Mgr.—A. E. Machler
Supt.—K. Siegle
PRODUCTS—Industrial ovens, japanning and enameling ovens, drying ovens, core baking ovens, specializing on conveyor type ovens
Incorporated—$75,000; issued, $60,000
Railroad—Chicago Belt Line

MACK BROTHERS, 409 Marcellus St., Syracuse, N. Y.
PRODUCTS—Steel plate work, boilers

MACOMBER STEEL CO., THE, Canton, O. Successor to Massillon Steel Joist Co.
Pres.—Stanley Macomber
Vice Pres. Sales—C. W. Anderson
Sec.—E. E. Mosser
Pur. Agt.—S. L. Orenstein
Gen. Supt.—H. H. Hildenbiddle
Chief Engr.—H. M. Bringhurst
Asst. Chief Engr.—K. S. Tufts
EQUIPMENT—Riveting and electric welding
PRODUCTS—Structural steel, "Massillon" standardized steel, building products, bar joists, roof trusses, vault reinforcing, reinforcing trusses and steel forms, etc.

MacSORLEY, F. L., 1079 Woodycrest Ave., New York, N. Y.
PRODUCTS—Boilers, tanks, sheet metal work

MADDEN BOILER WORKS, Hollidaysburg, Pa.

MADWELL PIPE & CULVERT CO., 25th Ave. and E. 12th, Oakland, Cal.

MAIN IRON WORKS, 1000 16th St., San Francisco, Cal.
Pres. and Gen. Supt.—A. Z. High
Vice Pres.—A. Owen
Sec. and Treas.—Austin Sperry
Chief Engr. and Draftsman—R. H. Ritter
Asst. Gen. Supt.—C. E. Ker
M. M.—J. A. Addison
Storekeeper—J. L. Norton
PRODUCTS — Boilers, tanks, engines, hoists, steel plate work, mining machinery, crushers, evaporators, condensers, distillers, sluice gates, etc.
Railroads—So. Pac., spur track

MALONEY TANK MFG. CO., Peoria and Jefferson Sts., Tulsa, Okla.
Pres.—H. Ross
Vice Pres.—R. A. Maloney
Treas., Sec. and Gen. Mgr.—J. S. Warren
PRODUCTS—Knocked down bolted steel tanks for storage of crude oil, gasoline and water
Capacity—50,000 lbs. or 25 tons per day
Incorporated
Railroads—Frisco, Katy, Santa Fe, Midland Valley

MANISTEE IRON WORKS CO., Manistee, Mich.
Pres.—J. R. Ray
PRODUCTS—Vacuum pans for manufacture of salt, potash, sugar, etc.; pumps

MANITOWOC BOILER WORKS, Quay, cor. 6th St., Manitowoc, Wis.

MANITOWOC ENGINEERING WORKS, Manitowoc, Wis.
Pres.—C. C. West
Vice Pres. and Treas.—L. E. Geer
Vice Pres.—A. P. Rankin
Asst. Treas.—J. A. Egan
Sec.—J. E. Thiell
Pur. Agt.—H. A. Meyer
S. Mgr. and Storekeeper—C. C. Miller
Gen. Mgr. and C. E.—W. L. Wallace
Mgr. Const.—A. L. Pitz
Supt.—J. Norris
Supt.—W. McIntosh
Struct. Engr.—O. E. May
Chief Draftsman—G. I. Sullivan
Mech. Engr.—E. Strubb
EQUIPMENT—For all kinds of metal fabrication, machine work, wood work, electrical and pipe work, boilers, rotary kilns and dryers, pulp digestors, etc.
PRODUCTS—Light and heavy plate fabrication, structural steel, light and heavy machine work, forgings, etc.
Incorporated—$1,750,000; issued, $1,250,000
Railroads—C. & N. W., Chi. A., P. M., M. St. P. & S. S. M.

MANITOWOC SHIPBUILDING CORP., Manitowoc, Wis.
Pres.—Charles C. West
Vice Pres. and Treas—L. E. Geer
Vice Pres. and Chief Engr.—A. P. Rankin
Asst. Treas.—J. A. Egan
Sec.—J. E. Thiell
Pur. Agt.—H. A. Meyer
Storekeeper—C. C. Miller
Gen. Mgr.—W. L. Wallace
Supt. (Machinery)—W. I. McIntosh
Supt. (Shipyard)—A. L. Pitz
Supt. (Boiler Shop)—J. J. Norris
Chief Draftsman (Machinery)—E. Strubb
Chief Draftsman (Hull Dept.)—G. I. Sullivan
PRODUCTS—Steel ships, boilers, engines, structural, cement and paper mill machinery
Capacity—Vessels of any size
Incorporated
Railroads—C. & N. W., Soo, water facilities

MANKATO MFG. CO., 208 Poplar St., Mankato, Minn.
Pres., Pur. Agt., G. M. and C. E.—R. R. Wilcox
Treas. and Foreman Mach.—A. Ray Wilcox
Sec., Mgr. Const. and Foreman—J. W. Wilcox
Blacksmith—Herman Blalghan
PRODUCTS—Manufacture boilers and tow mills, structural steel, gas engines and general repairing
Incorporated—$29,250
Railroads—C. & M. W., C. M. & St. P., M. & O.

MANTON & CO., JOHN, 708 Court St., Brooklyn, N. Y.
PRODUCTS — Boiler repairing and sheet metal work

MARIETTA MFG. CO., Point Pleasant, W. Va.
Pres.—Walter A. Windsor
Vice Pres., Treas. and Gen. Mgr.—C. O. Weissenburger
Sec. and Pur. Agt.—S. C. Wilhelm
Sales Mgr.—F. W. Ingraham
Chief Engr.—E. H. Holmes
Foremen—G. H. Overholt and N. A. Park
EQUIPMENT—Boiler plate, machine, pattern shops, foundry, marine ways
PRODUCTS—Steel barges and boats, fabricated steel, machinery for steamboats
Incorporated
Railroads—B. & O., N. Y. C., Kanawha and Ohio river boats

MARINE IRON & SHIPBUILDING WORKS, foot of 11th Ave., E., Duluth, Minn.
Pres.—Martin Christiansen
Vice Pres.—John Abernethy
Treas.—W. W. Spring
Sec. and G. M.—John Geistman
Pur. Agt.—Swan Larson
Storekeeper—Axel Johnson
Chief Engr.—Robert Auld
Foreman Repairs—Toby Cahill
Blacksmith—Hans Malmros
PRODUCTS — Construction tugs, scows, lighters
Incorporated

MARINETTE BOILER WORKS, Church St., Marinette, Wis.
Prop.—F. E. Hunt
PRODUCTS—Boilers, tanks, stacks, heavy plate work, locomotive and machinery repairs, electric welding
Ownership—Private
Railroads—C. & N. W., C. M. & St. P., Ann Arbor, W. & M.

MARQUETTE BOILER & SHEET IRON WORKS, 873 W. Washington St., Marquette, Mich.

MARTIN METAL MFG. CO., THE 900 E. 2nd, Wichita, Kan.
Pres. and G. M.—F. W. Martin
Vice Pres.—L. H. Martin
Treas. and Supt.—T. W. Martin

Sec.—G. W. Martin
Pur. Agt.—F. W. Austin
Storekeeper—Jas. Brady
PRODUCTS—Sheet metal products
Incorporated—$300,000
Railroads—Private siding connections with all roads

MARTINI & HUNEKE CO. OF AM., 1201 Hudson St., Hoboken, N. J.
Pres. and Gen. Mgr.—W. J. Willenborg
Vice Pres. and Sec.—H. L. Moeller
Treas. and Pur. Agt.—C. J. Willenborg, Jr.
Foreman Mach.—Chas Drasser
PRODUCTS—Installations for safeguarding storgae and handling of inflammable liquids and general machine work
Incorporated—$500,000

MASSILLON BRIDGE & STRUCTURAL CO., Post Office Box 519, Massillon, O.
Pres. and Gen. Mgr.—E. Rice
Vice Pres.—H. F. Dielhenn
Treas. and Sec.—C. D. Yost
Pur. Agts.—E. Rice, C. D. Yost, Ralph Riese
Sales Mgr.—B. W. Blake
Asst. Gen. Mgr.—D. L. Gregory
Chief and Struct. Engr.—L. A. Miller
Chief Draftsman—S. E. Rice
Mech. Engr. and Foreman Machinist—Loyd Weisgerber
Power and Elec. Engr.—John Evans, Jr.
Foreman Blacksmith—Louis Kouth
Foremen—Charles Boggs and John Leading
PRODUCTS—Structural and bridge work
Capacity—?,000 tons per month
Incorporated
Railroads—Penna., B. & O.

MEAD-MORRISON MFG. CO., Prescott and Orleans St., East Boston, Mass.
Works Mgr.—W. P. Alexander
Foreman—William Harris

MEAD PENN IRON WORKS CO., 180 Mercer St., Meadville, Pa.
Pres.—Otto Kohler
Treas.—E. W. McGill
Sec.—C. H. Allen
Gen. Mgr.—C. K. Strausbaugh
Sales Mgr.—?. F. Hegerty
Capital Stock—Issued $230,000
Railroads—B. & L. E. and Erie

MEARS-KANE-OFELDT, INC., 1907 E. Hagert St., Philadelphia, Pa.
Pres. and Treas.—Frederick K. Mears
Sec., Asst. Treas. and Pur. Agt.—Edward W. Mears
Incorporated—Stock authorized, $200,000; outstanding, $188,100

MECHLENBURG IRON WORKS, No. Jackson and S. A. L. Ry., Charlotte, N. C.
Pur. Agt. and Gen. Mgr.—J. Renwick Wilkes
Foreman Mach.—Robert P. Chapman
Foreman Blacksmith—Marshall Love
Foreman Welders—L. R. Simpson

PRODUCTS—Sheet and plate steel, tanks, water, gas, oil and pressure, smoke stacks and connectors, iron and brass castings
Partnership—$75,000
Railroad—Seaboard Air Line, private siding

MEEHAN BOILER & CONSTRUCTION CO., Lowellville, O.
Pres.—Robert Gray
Vice Pres. Opr.—Thomas J. Meehan
Treas., Sec. and G. M.—James Meehan, Jr.
PRODUCTS—Fabricators and erectors, all kinds steel plate work for blast furnaces, steel mills and power plants

MEEHAN STEEL PRODUCTS CO., Front and Heplar Sts., Ironton, O.
Pres.—Patrick Meehan
Vice Pres. and Treas.—Paul F. Meehan
Sec. and Pur. Agt.—P. I. Meehan
Chief Draftsman—G. A. Lusk
PRODUCTS—Structural and steel plate work
Incorporated
Railroad—N. & W.

MEGQUIER & JONES CO., 33 Pearl St., Portland, Me.
Pres. and Treas.—H. M. Jones
PRODUCTS—Structural steel, fire escapes, light iron work
Railroads—B. & M. C., G. T.

MEMPHIS BOILER WORKS, 18 Poplar St., Memphis, Tenn.

MENOMINEE BOILER WORKS, 1208 Ogden Ave., Menominee, Mich.

MERCEREAU BRIDGE & CONSTRUCTION CO., Los Angeles, Cal.

MERRILL-STEVENS DRY DOCK & REPAIR CO., 644 E. Day St., Jacksonville, Fla.
Pres.—J. E. Merrill
Vice Pres. and Gen. M.—James C. Merrill
Treas.—J. T. Manier
Sec. and Mech. Engr.—K. A. Merrill
Pur. Agt.—B. W. Manier
Storekeeper—Hunter Winset
Chief Engr.—Benson Drake
M. M. and Foreman Mach.—W. J. Boote
Power and Elec. Engr.—H. MacDonald
Foreman Repairs—S. R. Kent
EQUIPMENT—Boiler, blacksmith, structural and sheet metal works, machine shop, foundry, joiner and carpenter shops
PRODUCTS—Dry docking and marine repairs
Incorporated

MERRIMAC BOILER WORKS, 21 Parker St., South Lawrence, Mass.

MERTES, MILLER CO., 239 Lake St., Milwaukee, Wis.
PRODUCTS—Boiler shop

MESKER BROTHERS IRON CO., 421 So. 6th St., St. Louis, Mo.

Pres.—Ben. Mesker
Vice Pres.—Frank Mesker
Sec. and Treas.—A. B. Kolmer
Pur. Agt.—W. Cammann
Supt.—H. S. Allen
Chief Draftsman—G. F. Stephens
PRODUCTS—Steel sash, steel stair, hollow metal windows, coal chutes
Incorporated

MESSINGER MFG. CO., Main St. Tatamy, Pa.
Pres.—G. Frank Messinger
Vice Pres.—Homer Albert
Treas., G. M. and Supt.—G. S. Messinger
Sec. and Sales Mgr.—Herbert Muffley
Pur. Agt.—W. D. Butz
Storekeeper—Clark Wessner
Mgr. Const.—Robert Young
Chief Engr. and Draftsman—Wm. Remaly
Foreman Mach.—Lee Washburn
Blacksmith—Stewart Roth
Foreman Moulding—Harry Johnson
Foreman Carpt.—O. C. Lechtenwalner
Foreman Boiler—Arch Rader
PRODUCTS—Manufacturing of farming implements and jobbing
Incorporated—$100,000
Railroad—L. V. R. R.

METAL PRODUCTS CO., THE, 9th and Bishop, Salina, Kan.
Gen. Mgr.—C. R. Watson
Chief Engr.—Audrew Urie
PRODUCT—Sheet metal
Railroads—Un. Pac., Mo. Pac., R. Island, Santa Fe

METAL PRODUCTS CORP., Chestnut St., Weehawken, N. J.
PRODUCTS—Metal Products
Incorporated

MEURER STEEL BARREL CO., INC., 25 W. 43rd St., New York City, N. Y. Plant: 307 Borden Ave., Long Island City, N. Y.
Pres.—M. C. Meurer
Vice Pres.—C. P. Burr
Vice Pres.—W. W. Share
Treas.—C. H. Bolles, Jr.
Sec.—Andrew Meurer
Supt.—Roy S. Young
PRODUCTS—Manufacturer of steel shipping barrels and drums
Capacity—2,000 daily
Incorporated—$1,000,000
Railroads—Sidings on Long Island R. R., and loading dock on Newtown Creek

MEYER & CO., OTTO C., 30 Franklin St., Brooklyn, N. Y.
PRODUCTS—Boilers, etc.

MEYERS MFG. CO., FRED J., Bender St., Hamilton, O.
Pres.—George C. Bramlage
Vice Pres. and Pur. Wire and Supplies—John A. Wulftange
Treas.—M. Wulftange
Sec. and Sales Mgr.—Fred L. Meyers
Storekeeper—Jacob A. Goetz
Supt. and Chief Engr.—John H. Lutter
Chief Draftsman—Frank Wulftange
PRODUCTS—Light structural and ornamental wire, iron and bronze work
Incorporated—Capital and surplus, $175,000
Railroads—P. C. C. & St. L., tracks in own yard

MEYER MFG. CO., GEORGE J., 576-598 Clinton St., Milwaukee, Wis.
Pres. and Treas.—George J. Meyer
Vice Pres.—George L. N. Meyer
Sec.—H. W. Kortsehl
Pur. Agt.—E. Kasch
Storekeeper—Charles Spath
Sales Mgr.—W. H. Mann
Gen. Mgr.—George Meyer, Jr.
Supt.—C. Otto Dreher
Struct. Engr.—Fred Schumann
Chief Draftsman—Roy Spies
Foreman Mach.—Frank Schall
Foreman Repairs—Walter Macholz
Foreman Blacksmith—Peter Scholl
Foremen—Wm. Witte and Joe Classen
EQUIPMENT—Tank department, brass and gray iron foundry, machine shop
PRODUCTS—Large machinery and tank work

MIAMI ELECTRIC WELDERS, 561 N. W. 8th St., Miami, Fla.
Pres.—H. J. Spanier, Sr.
Treas.—Clarence Spanier
Asst. Treas.—Ruth Spanier
Sec.—May Spanier
Asst. Sec.—Hellen M. Spanier
Gen. Mgr.—Charles Spanier
Struct. Engr.—Alen. Spanier
Chief Draftsman—Eugene Spanier
EQUIPMENT—Boiler makers, millwrights and machinists
PRODUCTS — Construction, light and heavy repairs
Ownership—Private
Capital—$15,000
Railroad—S. S. S.

MICHELMANN STEEL CONSTRUCTION CO., 2nd and Hampshire Sts., Quincy, Ill.
Pres., G. M., Chief and Struct. Engr.—W. F. Gerdes
Vice Pres.—C. F. A. Behrensmeyer
Sec. and Treas.—H. L. Michelmann
Storekeeper—George Hellhake
Chief Draftsman—W. F. Gerdes, Jr.
Power Engr.—Otto Bruemmer
Blacksmith—Joe Bruemmer
Foreman Sheet Iron Shop—Louis Eberle
Foreman Boiler and Struct.—Ed. Zumsteg
PRODUCTS—Structural steel and steel plate construction
Incorporated—$150,000
Railroads—C. B. & Q. and Wabash

MICHEL & PFEFFER IRON WORKS, 1417 Harrison St., San Francisco, Cal.
PRODUCTS—Tanks

MICHIGAN BOILER & SHEET IRON WORKS, 4120-22 W. Jefferson Ave., Detroit, Mich.

Pres.—Frank G. Wimmer
Pur. Agt.—C. A. Gust
Supt.—John J. McManamon
PRODUCTS—Stacks, tanks, boilers and boiler repairing
Ownership—Private

MICHIGAN BRIDGE & PIPE CO., Lansing, Mich.

MICHIGAN SHEET METAL WORKS, Lansing, Mich.
Pres.—E. B. Harrington

MIDDLEPORT BOILER WORKS, 3rd and Race Sts., Middleport, O.
Prop.—J. H. Williams
Gen. Mgr. and Supt.—F. B. Williams
PRODUCTS—Boilers and sheet metal work
Capital—$15,000
Railroads—N. Y. Cent., Hock. Valley, and Ohio River

MIDLAND BARGE CO., 600 So. 11th St., Midland, Pa.
Pres.—S. N. Craig
Vice Pres.—A. K. Hamilton
Treas.—B. W. Hunsicker
Sec.—J. C. Potts
Auditor—H. D. Faulk
Pur. Agt.—B. W. Hunsicker
Sales Mgr.—R. C. Will
Supt.—O. J. Graham
PRODUCTS—Steel barges, hulls, dredges, river and harbor steel, floating equipment
Incorporated—$100,000; issued, $90,000
Railroad—Penna., and Ohio river

MIDLAND BRIDGE CO., Railway Exchange Bldg., Kansas City, Mo.

MIDLAND STRUCTURAL STEEL CO., Cicero, Ill.
Pres.—O. A. Sendder
Vice Pres.—J. P. Braun
Sec. and Treas.—Ben. N. Braun
Supt.—Henry Ritter
PRODUCTS—Fabricating steel for buildings
Capacity—600 tons per month
Incorporated—$60,000

MID WEST STEEL CONSTRUCTION CO., 6 Orcutt Bldg., Sioux City, Iowa
PRODUCTS—Structural steel fabrication

MILLER BOILER & TANK CO., Enid, Okla.
Pres., Treas., P. A. and G. M.—T. L. Miller
Vice Pres.—J. M. Hawkins
Sec.—J. J. Allen
Storekeeper—Wm. Cox
Field Supt.—S. L. Miller
Foreman Repairs and Blacksmith—Edward Welsh
Foremen—Jack Cox and Virgil Flurry
PRODUCTS—Boilers, tanks, erection and repairs
Incorporated—$250,000; issued, $125,000

MILLER, CHARLES E., 206 E. 14th St., Anderson, Ind.
PRODUCTS—Boiler, steel plate work and repairs

MILLER & HOY, Wauseon, O.
PRODUCTS—Steel plate work

MILLER & SONS, LTD., NATHAN, 211 Pocasset St. Fall River, Mass.
PRODUCTS—Boilers, repairs and machine work

MILWAUKEE BOILER MFG. CO., 35th and National Ave., Milwaukee, Wis.
Pres.—George C. Hinkley
Vice Pres.—H. W. Luscher
Treas. and Sec.—W. S. Miller
Asst. Treas., Asst. Sec. and Pur. Agt.—Charles E. Reiff
Gen. Mgr.—Peter P. Reiff
Supt.—Otto A. Ehbe
Foreman Blacksmith—Julius Bochert
Foremen—Arthur Kriehn and Emil Gruell
PRODUCTS—Boilers and heavy and light plate construction
Capacity—20,000 per month
Incorporated—$200,000; issued, $150,000
Railroad—Belt line, tracks in shop

MILWAUKEE BRIDGE CO., 1400 34th St., Milwaukee, Wis.

MILWAUKEE DRY DOCK CO., Foot of Mineral St., Milwaukee, Wis.

MILWAUKEE HEAT GENERATOR CO., 458 11th St., Milwaukee, Wis.

MILWAUKEE RELIANCE BOILER WORKS, 1102 32nd St., Milwaukee, Wis.
Pres. and Treas.—J. E. Sharp
Vice Pres. and Supt.—R. A. Sharp
Sec.—I. George Sharp
Pur. Agt.—W. Garlish
Sales and Gen. Mgr.—F. C. Keller
Chief and Power Engr.—Theodore Stolle
Chief Draftsman and Mech. Engr.—R. H. Gilbert
Foreman Mach.—M. Cchemelinski
Foreman—F. P. Burns
PRODUCTS—General steel plate work, up to ¾-inch thick
Incorporated—$110,000
Railroad—Main line M. C. & St. P.

MILWAUKEE TANK WORKS, Milwaukee, Wis.

MINGLEDORFF & CO., 536 Indian St., Savannah, Ga.
PRODUCTS—Boiler repairs and general steel work

MINNEAPOLIS BRIDGE CO., Metropolitan Life Bldg., Minneapolis, Minn.

MINNEAPOLIS STEEL & MACHINERY CO., 2854 Minnehaha Ave., Minneapolis, Minn.
Chairman—J. L. Record
Pres.—W. C. MacFarlane
Vice Pres.—Geo. L. Gillette

Treas.—E. A. Merrill
Asst. Treas.—W. S. Peddie
Sec.—W. C. Rich
Pur. Agt.—Max Lorberbaum
Mgr. Const.—A. M. Burch
Supt.—F. R. Brownlee
Struct. Eng.—J. B. Gilman
Mech. Engr.—A. W. Lavers
PRODUCTS—Twin City tractors, threshers and engines, structural steel and plate work
Capacity—25,000 tons annually
Incorporated—$6,000,000; issued, $5,000,000

MISSISSIPPI VALLEY STRUCTURAL STEEL CO., Decatur, Ill. Plants: Maplewood (St. Louis), Mo.; Melrose Park, Ill.
Pres. and Treas.—W. M. Wood
Vice Pres. and Gen. Supt.—G. A. Caldwell
Vice Pres. and Gen. Mgr.—R. D. Wood
Vice Pres. and Sales Mgr.—C. R. Dick
Vice Pres.—E. C. Brown
Asst. Treas. and Asst. Sec.—F. C. Knorr
Sec.—F. W. Ives
Pur. Agt.—W. B. Connolly
Mgr. Const.—F. W. Conard
Chief Engr.—R. E. Carr
PRODUCTS — Fabricators of structural steel and miscellaneous and ornamental iron work
Capacity—1,500 tons per month
Capital—$1,250,000

(At St. Louis, Mo., Plant, 3117 Big Bend Road)
Vice Pres. and Mgr.—E. C. Brown
Sec.—F. W. Ives
Supt.—B. J. Dickinson
Asst. Mgr. and Chief Engr.—R. J. Bramhall
Chief Draftsman—E. I. Beesley
PRODUCTS — Fabricators of structural steel
Capacity—1,200 tons
Railroad—St. Louis Terminal Outer Belt, Mo. Pac.

(At Melrose Park, Ill.)
Sales Mgr.—R. D. Wood
Chief Engr.—E. T. Blix
Capacity—1,200 tons per month

MISSOURI BOILER WORKS CO., THE, 923 N. 3rd St., Kansas City, Kan.
Pres. Treas. and G. M.—I. Harry Darby, Jr.
Vice Pres.—F. I. Darby
Pur. Agt.—A. H. Hydorn
Storekeeper—H. Hensley
Sales Mgr.—L. W. Browne
Supt. (Outside)—George W. Packer
Chief Engr.—C. Cotter
Foreman—R. Turner
PRODUCTS — Boilers, tanks, stacks, breechings, mixers, conveying equipment
Capacity—500 tons per month
Incorporated—$50,000
Railroad—Mo. Pac.

MISSOURI BOILER & SHEET IRON WORKS, 908 S. 23rd, St. Louis, Mo.
Pres., Treas. and Mgr. Const.—Paul Tolkaiz
Vice Pres. and P. A.—W. A. Tolkaiz
Sec.—C. M. Tolkaiz
Gen. Mgr.—E. N. Tolkaiz
Supt.—Byron Aaumsen
PRODUCTS—Plate and tank works
Capacity—3,000 tons per year
Incorporated—$40,000; issued, $40,000
Railroad—R. R. switch, one-half block

MISSOURI BRIDGE & IRON CO., Fullerton Bldg., St. Louis, Mo. Plant: 21st St. and Trendley Ave., East St. Louis, Ill.
Pres.—J. T. Garrett
Vice Pres., Treas. and P. A.—R. P. Garrett
Sec. and Storekeeper—K. H. McHenry
Sales Mgr.—J. G. Baer
Mgr. Const.—F. F. Buchanan
Supt.—Frank Hess
Chief and Struct Engr.—J. B. Neely
Chief Draftsman—H. W. McClure
Foreman Mach.—Roy Baker
Blacksmith—C. J. Krause
EQUIPMENT — Steam generating plant with motors and punches, drills, shears, saws, planers, riveters, forges, steam hammers, etc.
PRODUCTS—Bridge and structural steel
Capacity—500 tons per month
Incorporated—$30,000; surplus, $208,700; issued, $30,000
Railroad—Terminal R. R. Association of St. Louis

MISSOURI VALLEY BRIDGE & IRON CO., THE, Leavenworth, Kan.
Pres.—H. S. Tullock
Vice Pres. E. H. Connor
Treas., Sec. and Pur. Agt.—A. J. Schilling
Mgr. Const.—C. F. Greever
Chief Engr.—E. H. Connor
Struct. Engr.—W. H. Jones
Office Engr.—C. S. Jones
Foreman Shop—H. D. Mundy
EQUIPMENT—Everything required for deep foundations; shop for fabricating steel
PRODUCTS—Bridges and buildings
Capacity—5,000 tons per year
Incorporated—$250,000
Railroads—A. T. & S. F., C. G. W., U. P., Mo. P., C. R. T. & P.

MOBILE STEEL CO., Knox and Conception Sts., Mobile, Ala.
Pres. and Treas.—Wm. McIntosh
Vice Pres. and Mgr. Const.—W. G. McConnel
Sec. and Pur. Agt.—W. O. Evans
Supt.—P. S. Evans
Struct. Engr.—J. R. Mighell, Jr.
Chief Draftsman—W. A. Buechner
PRODUCTS—Structural steel and sheet metal
Incorporated—$200,000; issued, $178,500
Railroads—L. & N., M. & O., Southern Steamship Lines

MODERN BOILER WORKS, Bristow, Okla.
Mgr.—J. F. Schey

MODERN IRON WORKS, 2614 Mc-Pherson St., Los Angeles, Cal.
PRODUCTS—Structural steel and iron work

MODERN STEEL STRUCTURAL CO., Waukesha, Wis.
Mgr.—J. B. Fisher

MOFFETT, H. R., 719 L St., Lincoln, Neb.
PRODUCTS—Structural steel and iron work

MOHR & SONS, JOHN, 96th and Calumet River, Chicago, Ill.
Pres.—Albert Mohr
Vice Pres. and P. A.—Edward Mohr
Treas.—Wm. J. Mohr
Sec.—Chas. E. Schramm
C. E. and Supt.—Wm. G. Born
PRODUCTS—Blast furnaces, hot stoves, metal mixers, boilers and steel plate work of all kinds
Capacity—5,000 tons
Incorporated—$100,000; issued, $100,000; surplus, $1,250,000

MONAHAN, M. J., 293 Ashland Ave., North Adams, Mass.
PRODUCTS—Boilers, repairs and tanks

MONKS BOILERS, INC., 83 Fifth St., Portland, Ore.
Pres.—T. N. Monks
Vice Pres.—F. Korell
Sec. and Treas.—A. M. Moore
PRODUCTS—Manufacturers heating and power boilers, sawdust burners
Incorporated—$30,000

MONONGAHELA BOILER WORKS, Monongahela City, Pa.

MONROE MACHINE & BOILER WKS., Monroe, La.
Foreman Mach.—Monroe Riley
EQUIPMENT—3 lathes, planer, 1 radial drill, 2 small drills, shears and 2 sets of rolls
PRODUCTS—General repair work
Railroads—T. C., M. O. P., and boat

MONTAGUE PIPE & STEEL CO., Hobart Bldg., San Francisco, Cal.
Pres.—O. H. Fisher
Vice Pres.—W. J. Glover
Treas. and Sec.—B. W. Henning
PRODUCTS—Riveted and welded pipe, tanks, well casings, boilers, sheet metal work

MONTOUR STEEL CO., Montour Falls, N. Y.
PRODUCTS—Structural steel work

MOORE BOILER WORKS, G. G., 520 W. 5th St., Kansas City, Mo.

MOORE DRY DOCK CO., THE, Balfour Bldg., San Francisco, Cal. Plant: Foot of Adeline St., Oakland, Cal.
Pres.—Jos. A. Moore
Vice Pres.—W. E. Duzan
Sec. and Pur. Agt.—N. Levy
Storekeeper—C. B. Tenney
Sales Mgr.—Wm. Harrower
Gen. Supt.—P. A. Coxon
Marine Supt.—A. D. Grimes
Struct. Engr.—W. E. Emmett
PRODUCTS—Ship building and ship repairing, fabricators of structural steel, manufacturers of boilers, tanks, riveted or welded steel pipe and machinery
Railroads—Three spurs on West. Pac., connecting with Santa Fe and So. Pac.; also 7 wharves for direct loading

MOORE DRY DOCK & REPAIR CO., 1st Ave. and 56th St., Brooklyn, N. Y.
Mgr.—J. Weisman
Chief Elec. Engr.—John T. Boyle

MORAVIA CONSTRUCTION CO., 85th St. and Stewart Ave., Chicago, Ill.
Owned by McClintic-Marshall Co., Pittsburgh, Pa.

MORGAN ENGINEERING CO., Alliance, Ohio
Mgr. Struct. Dept.—R. A. Storm

MORRIS CO., THE C. E., 660 Curtis Ave., Columbus, O.
Pres.—W. B. Morris
Sec. and Treas.—L. E. Morris
Pur. Agt.—Z. J. Rugg
Supt.—A. E. Mead
Chief Engr.—C. G. Landes
Struct. Engr.—E. E. Morris
M. M.—Wm. J. Taylor
Elec. Engr.—H. Bradfield
PRODUCTS—Structural steel and ornamental iron work
Capacity—3,000 tons
Incorporated—$50,000
Railroads—Penna., and B. & O.

MORRISON BROTHERS, Dubuque, Iowa
PRODUCTS—Brass and steel oil equipment, steel tanks for all purposes

MORTON MANUFACTURING CO., 5133 W. Lake St., Chicago, Ill.
Pres. and Treas.—H. U. Morton
Vice Pres.—H. H. Schroyer
Sec. and Asst. Treas.—Charles D. Morton
Pur. Agt.—T. A. Lyon
Storekeeper—A. J. Korg
Sales Mgr. (Bldg. Div.)—E. M. Smith
Sales Mgr. (Foreign Div.)—R. L. Mosier
Gen. Mgr.—A. C. Senseney
Asst. G. M.—A. Anderson
Supt.—Wm. Folkens
Chief Engr.—J. A. King
Chief Draftsman—George Zielke
Foreman Mach.—J. Jensen
Foremen—L. Bates, E. Dahlberg, J. Feddern, N. Klos, C. Cameron, J. Thomas
EQUIPMENT—Power presses, punch presses, brakes, die making machinery, shears, drills, roller and draw benches, spot welding machinery, gas welding machinery, baking ovens (stationary or automatic)

PRODUCTS—Railway appliances and industrial steel products of all kinds
Capacity—$3,000,000 annually
Incorporated—$240,000; bonds, $300,000
Railroads—Cragin Station, Belt Ry. Line, Chicago

MOSS IRON WORKS, THE J. E., Wheeling, W. Va.
Pres., Treas. and G. M.—J. E. Moss
Vice Pres.—R. R. Kitchen
Vice Pres., Asst. G. M. and Mgr. Const.—E. A. Moss
Sec.—Alexander Best
Sales Mgr.—J. G. Stromp
Pur. Agt.—W. P. Kraft
Supt.—T. C. Jenkins
Chief Engr. and Draftsman—W. E. Mack
Struct. Engr.—J. T. Calder
Foremen—Sam Dennis and E. Griffin
Supt. of Erection—F. Mustain
Storekeeper—H. Gredlein
PRODUCTS—Structural steel fabrication, ornamental iron, steel joist construction
Capacity—40,000 Tons annually
Incorporated
Railroads—B. & O., Penna., W. & L. E.

MOTTER'S SONS, GEO. F., S. Pershing Ave., York, Pa.
Pres. and Treas.—Geo. F. Motter
Sec.—Wm. H. Hoke
Pur. Agt.—H. K. Weiser
Storekeeper—A. M. Lewis
Gen. Mgr.—Geo. H. Keller
Chief Draftsman—John Motter
Elec. Engr.—Raymond Spahr
Foreman Mach.—Paul Bush
Blacksmith—Martin Boyer
Foreman—Ray Breightner
Foreman—Wm. H. E. Shaffer
PRODUCTS—Special machinery, tobacco drying machinery, tanks, boilers; equipped to build special machinery; specialize on printing machinery
Incorporated—$300,000
Railroads—Penna., W. M. and M. P.

MOUND CITY ERECTION CO., 6155 Gambleton St., St. Louis, Mo.

MOUNT COPPER BOILER & IRON CO., 22 No. Rockford Ave., Tulsa, Okla.

MT. VERNON BRIDGE CO., THE, Mt. Vernon, O.
Pres. and Treas.—I. M. Wolverton
Vice Pres. and Sec.—C. G. Conley
Pur. Agt.—W. C. Armstrong
Mgr. Const.—U. Lytle
Works Mgr.—H. L. Beecher
Chief Draftsman—H. W. Brown
PRODUCTS—Structural steel
Capacity—2,000 tons per month
Incorporated

MOYNIHAN & CO., T. J., 401 Folsom St., San Francisco, Cal.
PRODUCTS—Boilers

MUELLER FURNACE CO., 197 Reed St., Milwaukee, Wis.

MUENZENMAYER SHEET METAL WORKS, 125 West St., Junction City, Kan.
Prop. and Mgr.—Henry Muenzenmayer
PRODUCTS—Light galvanized and tin work, warm air heating
Ownership—Private
Railroads—Union Pac., M. K. & T.

MULBERRY MACHINERY & BOILER WORKS, Mulberry, Kan.

MUNCIE BOILER & SHEET IRON WORKS, Box 257, Muncie, Ind.
Gen. Mgr.—N. L. Wernet
EQUIPMENT—Metal working
PRODUCTS—Tanks, stacks, special equipment
Ownership—Private
Railroad—Siding close to shop

MUNROE & SONS MANUFACTURING CORP., R., 23rd and Smallman Sts., Pittsburgh, Pa.
Pres.—R. Munroe, Jr.
Vice Prese.—E. Ren Munroe
Treas.—James D. Munroe
Asst. Sec.—M. W. O'Conner
Pur. Agt.—Charles H. Brown
Supt. Const.—Chas. L. Munroe
Supt.—Charles E. Rowland
Chief Engr.—Russell G. Miller
Chief Draftsman—Joseph G. Mahla
PRODUCTS—Manufacturers of boilers, stacks, tanks, steel plate construction
Incorporated

MURCH BROS. CONSTRUCTION CO., 611 Olive St., St. Louis, Mo.
Pres.—A. J. Murch
Vice Pres.—Fred Murch
Treas.—Geo. H. Murch
Sec.—H. Goldsworthy
Asst. Sec.—W. N. Murch
Storekeeper—Chas. Crauthers
Supt.—Thos. Jarvis
Supt.—Walter Murch
Supt.—Wm. B. Duncan
Chief Engr.—Geo. Schaller
Struct. Engr.—E. J. Parsons
Foremen—Wm. Ruck, Sam Bland, J. Vanderbrook, P. Novelly
Supt.—C. W. Thomas
PRODUCTS—General construction
Capacity—$5,000,000 per year
Incorporated

MURPHY BOILER CO., 3263 W. 73rd St., Cleveland, O.

MURPHY BOILER CO., THE, 153 Barclay St., Milwaukee, Wis.

MURPHY & WALSH, Pekin, Ill.
Pres.—Miles Murphy
Chief Engr.—Albert Berger
PRODUCTS—Manufacturers steel tanks and steel burial vaults
Partnership

MURRAY IRON WORKS CO., Burlington, Iowa. Foundries at Burlington, Ia.; and Aurora, Ill. Engine shops and boiler shops at Burlington, Ia.

Pres.—Geo. G. Higbee
Vice Pres. and Treas.—F. A. Millard
Sec.—C. H. Schroder
Asst. Sec.—M. E. Finck
Supts.—E. G. Denz, J. A. Dailey and Wm. Kehn
Chief Engr.—F. P. Stoddard
Railroads—C. B. & Q., C. R. I. & P., Mississippi River

MUSKEGON BOILER WORKS, 1204-08 Eighth St., Muskegon, Mich.
Pres.—C. L. Stevens
Vice Pres., Gen. Mgr. and P. A.—R. E. Ashley
Sec. and Treas.—S. C. Eyke
Asst. Sec. and Asst. Treas.—P. C. Stevens
Storekeeper—A. Lundberg
Sales Mgr. and Mech. Engr.—A. R. Belton
Supt.—O. Lawson
Struct. Engr.—J. P. Van Arman
EQUIPMENT—General boiler, plate and structural
PRODUCTS—Stacks, tanks, blast furnaces, refuse burners, structural steel, boilers, general plate and steel fabricated work for sugar, paper and chemical plants
Incorporated—$125,000; all issued
Railroads—Grank Trunk, Pere Marquette, Penna., Goodrich Boat, Wis.-Mich., Trans. G. R., G. H. & M., Associated Truck Lines

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NAGLE ENGINE & BOILER WORKS, 234 E. 16th St., Erie, Pa.

NARRAGANSETT BOILER WORKS, 311 Eddy St., Providence, R. I.

NASHUA STEAM PIPE & BOILER WORKS, Nashua, N. H.

NASHVILLE BRIDGE CO., foot of Shelby Ave., Nashville, Tenn.
Pres.—Arthur J. Dyer
Vice Pres.—Henry L. Badham
Vice Pres.—William T. Young
Sec. and Treas.—Robert W. Williams
Asst. Sec. and Asst. Treas.—Orville P. Vincent
Pur. Agt.—Leo E. Wege
Storekeeper—O. D. Stamper
Sales Mgr.—Thos. H. Robinson
Gen. Mgr.—Art. J. Dyer
Asst. Gen. Mgr.—L. C. Anderson
Mgr. Const.—Frank W. Blair
Supt.—Wm. M. Clark
Supt.—William Rodgers
Chief Engr.—Harry B. Dyer
Struct. Engr.—I. V. Henderer
Chief Draftsman—L. O. Hopkins
PRODUCTS—Structural steel bridges and barges
Capacity—3,000 tons monthly
Incorporated—$750,000; issued, $652,400
Railroads—L. & N., N. C. & St. L., Sou., T. C., Frisco, Cumberland & Warrior Rivers

NASSAU STEEL & IRON WORKS, 528 58th St., Brooklyn, N. Y.
PRODUCTS—Structural steel and iron work

NATIONAL BRIDGE WORKS, Review Ave., Long Island City, N. Y.
Chairman—T. J. Foster
Pres. and G. M.—H. B. Rover
Vice Pres.—Chas. A. Angell
Treas., Sec. and Pur. Agt.—Edward H. Cook, Jr.
Sales Mgr.—G. E. May
Supt. Plant—R. G. Beyer
Chief Engr.—A. W. Barbour
Chief Draftsman—F. H. Whitenack
PRODUCTS — Fabrication of structural steel
Capacity—1,000 tons per month
Incorporated—$775,000
Railroad—Long Island

NATIONAL GRAVE VAULT CO., THE, East Parson St., Galion, O.
Pres.—G. L. Stiefel
Vice Pres.—F. A. Fralick
Sec. and Treas.—G. C. Albrecht
Pur. Agt.—W. C. Mason
Sales Mgr.—T. J. McNichols
Gen. Mgr.—G. L. Stiefel
Supt.— F. Biszantz
Chief Engr.—J. Gay
PRODUCTS—Steel burial vaults, dumping bodies
Incorporated—$200,000; issued, $150,000
Railroads—Big Four, Erie, Cleveland S. W., Electric

NATIONAL IRON CO., Ramsey and 50th Sts., Duluth, Minn.
PRODUCTS—Structural steel work

NATIONAL IRON WORKS, 225 Endicott Ave., Boston, Mass.

NATIONAL IRON WORKS, foot of 7th St., San Diego, Cal.
Pres.—James R. Russell
Vice Pres. and G. M.—Leo G. Moore
Treas.—Carl Edgington
Sec.—J. L. Russell
Pur. Agt.—Leon Bothell
Struct. Engr.—N. Hess
Foreman Mach.—A. Alexander
Foreman Foundry—Geo. Kowalow
Foreman Structural—Don Pedro
Foreman Erection—Floyd Robinett
PRODUCTS—Structural steel, foundry, machine shop
Incorporated—$100,000; issued, $80,000

NATIONAL IRON & WIRE CO., E. 222nd and St. Clair Ave., Cleveland, O.
Pres. and Sales Mgr.—C. H. Brandt
Vice Pres. and G. M.—James Craig
Sec. and Treas.—Waldo K. Billens
Chief Draftsman—C. A. Reidinger
PRODUCTS — Structural steel building work
Capacity—1,000 tons per month
Incorporated

NATIONAL RADIATOR CO., Johnstown, Pa. (Represents a consolidation of Continental Heater Corp., Dunkirk, N. Y.; Gurney Heater Mfg. Co., Boston, Mass.; Utica Heater Co., Utica, N. Y.; Niagara Radiator & Boiler Co., No. Tonawanda, N. Y.; Union Radiator Co., Johnstown, Pa., and National Radiator Co., Johnstown, Pa.)
Chairman—John H. Waters
Pres.—Edward Norris
Vice Pres.—Samuel B. Waters
Vice Pres.—W. W. Wetmore
Vice Pres.—Charles L. Crouse
Vice Pres. and Gen. Sales Mgr.—Robert E. Warden
Vice Pres.—Geo. V. Reilly
Vice Pres. and G. M., Mfgr.—Robert S. Waters
Vice Pres. & G. M. Plants—Earle C. Reed
Sec. and Treas.—Carl E. Resley
Asst. Sec.—Vincent Westrup
Pur. Agt.—Robert D. Felton

(At Trenton, N. J., Plant)

Gen. Plant Supt.—Edgar W. Longacre
Asst. Plant Supt.—Samuel Mussey
Foundry Supt.—Joseph Hoelfelder
Chief Plant Clerk—F. B. Miller

NATIONAL STEEL TANK & MFG. CO., Bradford, Ill.

NATIONAL TANK CO., Tulsa, Okla.
Pres.—Jay P. Walker

NATIONAL TANK & MFG. CO., Santa Fe Ave. and 11th St., Los Angeles, Cal.
Pres. and G. M.—J. A. Stever
Vice Pres.—A. J. Stemler
Sec. and Treas.—B. A. Locker
PRODUCTS—Galvanized and plain riveted steel tanks, welded and riveted plate work
Incorporated—$25,000; issued, $21,000
Railroads—S. P. Spur, U. P., Santa Fe

NEBRASKA CULVERT & MFG. CO., Wahoo, Neb.
Pres. and G. M.—E. E. Placek
Vice Pres.—L. Lindercamp
Treas.—O. Lindercamp
Sec.—I. R. Edwards
Supt.—J. H. South
PRODUCTS—Corrugated metal culverts, sheet metal products, road machinery
Incorporated—$100,000; issued, $99,000
Railroads—C. & N. W., C. B. & Q., U. P.

NEBRASKA & IOWA STEEL TANK CO., 13th and Willis Ave., Omaha, Neb.
Prop.—A. N. Eaton
Asst. Gen. Mgr.—H. N. Brockway, Jr.
Gen. Supt.—R. E. George
Foremen—E. V. Clausen and F. J. Honkins

NECHIN STEEL CONSTRUCTION CO., 5312 W. 16th St., Cicero, Ill.
Pres. and Treas.—H. Nechin
Vice Pres. and Sec.—A. Nechin
Pur. Agt.—N. Cohn
Supts.—Ben Nechin, Sam Goldbaum, Sol Horwitz
Chief Draftsman—M. Opedahl
Blacksmith—J. Dahl
Foremen—Jack Hamachek, Geo. Schrader
PRODUCTS—Structural and miscellaneous and ornamental iron
Incorporated
Railroads—B. & O. C. T.

NELSON IRON WORKS, INC., N. P., Bloomfield Ave., Passaic, N. J.
Pres. and Treas.—N. P. Nelson
Vice Pres. and C. E.—F. W. James
Asst. Treas.—J. Danckwardt
Sec. and P. A.—J. L. Nelson
Sales Mgr.—A. A. Nelson
EQUIPMENT—Machine shop
PRODUCTS—Truck loaders, snow loaders, steel van and truck bodies
Incorporated
Railroad—Siding at Allwood Station of Erie

NELSON MFG. & SUPPLY CO., Hutchinson, Kan.
PRODUCTS—Steel tanks and general steel work

NEPTUNE BOILER & MACHINE WKS., 81 18th St., Brooklyn, N. Y.

NEW BEDFORD BOILER & MACHINE CO., 42 Front St., Bedford, Mass.

NEW BERN IRON WORKS & SUPPLY CO., New Bern, N. C.

NEWBOLD & SONS CO., R. S., Norristown, Pa.
Pres.—R. S. Newbold
Vice Pres., Treas. and Pur. Agt.—J. D. Newbold, Jr.
Vice Pres., Gen. and Sales Mgr.—L. R. Hillyard
Sec.—W. B. Beyer
Chief Engr.—A. H. Long
PRODUCTS — Steel plate construction, tanks, stacks, rolling mill machinery
Capacity—3,000 tons machinery and 4,000 tons steel plate work per year
Incorporated
Railroad—Reading siding

NEW BREMEN BRIDGE CO., THE, Herman St., New Bremen, O.
Pres.—Wm. Grothaus
Vice Pres.—Alvin Grothaus
Sec. and Treas.—Walter W. Grothaus
Supt.—F. L. Lanfersick
PRODUCT—Structural steel
Incorporated—$10,000
Railroad—Nickel Plate

NEW BRUNSWICK IRON WORKS, 11 Water St., New Brunswick, N. J.
Pres.—Aexander Henderson
Treas., Sec., G. M. and Supt.—Thomas J. Henderson
Pur. Agt.—Miss A. McDede
Sales Mgr.—John T. Simmons
Draftsman—Wm. J. Henderson

Foreman Mach.—John Rupprecht
PRODUCTS—General jobbing, manufacture boilers
Incorporated
Railroads—Penna., Raritan River, Middlesex Trans. Co.

NEW CITY IRON WORKS, 49th St. and So. Racine Ave., Chicago, Ill.
PRODUCTS—Structural steel fabrication

NEW DELPHOS MFG. CO., THE, First and Pierce Sts., Delphos, O.
Pres.—A. W. Wheatley
Vice Pres.—Joseph Jettinghoff
Treas., Sec. and P. A.—A. S. Perkins
Asst. Treas.—J. E. Fast
Gen. and Sales Mgr.—E. C. Werner
Supt.—Evan Williams
Chief Engr.—Leo Burger
PRODUCTS—Galvanizers of black sheets and makers of sheet metal products
Capacity—Galvanize about 12,000 to 15,000 tons per annum
Incorporated—6,750 shares common stock, no par value; bonds, 1,000 shares 7% first preferred stock

NEW ENGLAND BLOWER CO., THE, 27½ Charter Oak Place, Hartford, Conn.
Pres. and Treas.—C. B. White
Sec.—J. A. Magnuson
Pur. Agt.—C. M. Shenning
Sales Mgr.—V. C. Durand
Gen. Mgr.—J. A. Magnuson
Chief Draftsman—V. C. Durand
PRODUCTS—Sheet metal, ventilating and exhaust systems, also heating
Incorporated—$15,000

NEW ENGLAND IRON WORKS, INC., B. and Fargo Sts. Plant: 305 Summer St., Boston, Mass.
Pres. and Pur. Agt.—Peter B. Gaudet
Treas. and G. M.—Charles F. Koopman
Sec.—Charles Koopman, Jr.
Mech. Engr.—M. P. Koopman
Foreman—O. H. Tomlin
PRODUCTS—Steam bolers, tanks, stacks, plate work
Incorporated—$25,000
Railroad—N. Y., N. H. & H. switch

NEW ENGLAND IRON WORKS, INC., New Haven, Conn.
PRODUCTS—Structural steel and iron work

NEW ENGLAND STRUCTURAL CO., Second St., Everett, Mass.
Pres.—Walter B. Douglass
Vice Pres. and Mgr. Sales—Harry W. Fibbs
Treas.—Charles N. Fibbs
P. A. and Asst. Treas.—Irving D. Vaughan
PRODUCTS—Fabricating structural steel
Capacity—20,000 tons annually

NEW ENGLAND TANK & TOWER CO., 42-47 Main St., Everett, Mass.

NEW HAVEN BOILER WORKS, 37 Mill St., New Haven, Conn.

NEW MEXICO STEEL CO., INC., 221 W. Copper Ave. Plant: 2100 So. Second St., Albuquerque, N. M.
Pres.—E. E. Halin
Treas. Pur. Agt. and Gen. Mgr.—H. Louis Hahn
Sec.—G. Edmunds
EQUIPMENT—Boiler repair and welding tools, shop air compressor, drill presses
PRODUCTS—Tank builders, boiler repairs, welding, rebuilt boilers for sale
Incorporated—$9,900
Railroads—A. T. S. Fe

NEW ORLEANS BOILER WORKS, 642 Magazine St., New Orleans, La.

NEW ORLEANS BOILER WORKS, Alexandria, La.

NEW ORLEANS ROOFING & METAL CO., Cortex and Orleans St., New Orleans, La.

NEWPORT NEWS SHIPBUILDING & DRY DOCK CO., General Offices, 233 Broadway, New York, N. Y. Plant: Newport News, Va.

(At Newport News, Va.)
Pres. and Gen. Mgr.—H. L. Ferguson
Vice Pres.—S. L. Wood
Vice Pres.—F. P. Palen
Sec. and Treas.—E. A. Adams
Asst. Treas.—R. L. Henderson
Asst. Sec.—G. A. Parker
Engr. Director—C. F. Bailey
Works Mgr.—W. Gatewood
Prod. Mgr.—W. B. Ferguson
Naval Architect—H. F. Norton
Chief Engr.—J. F. Nichols
Hydraulic Engr.—F. R. Benson
Hull Supt.—E. F. Heard
Supt. Mach.—N. Christiansen
Supt. Mach. Boiler and Blacksmith Shops—C. B. Lord
Supt. Fdry. and Pattern Shop—P. R. Ramp
Plant Engr.—M. M. Fitzhugh
PRODUCTS—Shipbuilding, ship repairs, hydraulic work, forgings, paint, etc.

NEWSOME, JOSEPH, Leavenworth, Kan.
PRODUCTS—Boiler work and repairing, steel plate work

NEW YORK CENTRAL IRON WORKS, INC., Middleburg Road, Hagerstowwn, Md.
Pres.—M. P. Moller
Vice Pres.—L. D. Perry
Treas.—D. A. Stickell
Sec.—William Wingert
Pur. Agt.—Geo. Sowder
Gen. Mgr.—Leonard Crooke
Supt.—S. E. Houser
PRODUCTS—Structural steel, gray iron castings, pattern work, special machinery
Capacity—6,000 tons annually
Incorporated—$225,000; issued, $217,786
Railroads—Penna., N. & W., W. Md., B. & O.

NEW YORK ENGINEERING CO., 2 Rector St., New York, N. Y. Plant: Foot of Babcock Place, Yonkers, N. Y.
Pres.—A. C. Ludlum
Vice Pres., Sec. and Chief Engr.—Arthur Lowry
Treas. and Gen. Mgr.—George Sommer
Pur. Agt.—R. Mersereau
Sales Mgr.—E. W. Steinmueller
Supt.—R. G. Gunderson
EQUIPMENT—Heavy and light weight rolls, hydraulic bending presses, electric welding, bull riveting, machine shop
PRODUCTS—Sheet steel, riveted or welded pipe, 4-inch to 12-feet diameter and miscellaneous heavy plate work
Incorporated—$100,000
Railroad—N. Y. C. spur in shop, on tidewater for steamer shipment

NEW YORK SHIPBUILDING CO., Broadway and Fairview Sts., Camden, N. J.
Pres.—Lawrence R. Wilder
Vice Pres.—Rudolph Funk
Vice Pres.—Edward N. Barlow
Incorporated—200,000 shares, no par value

NIAGARA BOILER WORKS, 835 Ashland Ave., Niagara Falls, N. Y.

NIAGARA FALLS WELDING & BOILER WORKS, 1140 Whitney Ave., Niagara Falls, N. Y.

NIAGARA STEEL FINISHING CO., INC., College Ave. and 17th St., Niagara Falls, N. Y.
Pres., G. M. and Pur. Agt.—David T. James
Vice Pres.—William H. Gillett
Treas.—Harry W. Kellogg
Sec.—David E. James
Storekeeper—Ira D. Hecker
Supt.—Evan R. James
PRODUCTS—Structural steel and plate
Capacity—2,000 tons annually
Incorporated—$20,000; issued, $20,000

NICHOLSON, AARON, Albany, N. Y.
PRODUCTS—Boilers and repairs

NICHOLSON & HALL BOILER & WELDING CO., 178 Ohio Ave., Buffalo, N. Y.

NICLAUS BOILER WORKS, 473 W. Poplar St., Columbus, O.

NILES FORGE MFG. CO., 640 Grant St., Niles, O.

NILES STEEL TANK CO., 200 No. 2nd St., Niles, Mich.
PRODUCTS—Steel tanks, sheet metal

NIVER IRON WORKS CO., Muscatine, Ia.
PRODUCTS—Structural steel work

NOBLE BOILER & WELDING WORKS, J. A., 1209 Western Ave., Shreveport, La.

NOOTER BOILER WORKS CO., J., 1402 So. Second St., St. Louis, Mo.
Pres.—John Nooter
Vice Pres.—J. Eschmann
Vice Pres. and Mgr. Sales—Harry Nooter
Treas. and Supt.—Harold A. Frith
Asst. Treas. and Asst. Sec.—Robert J. Ryan
Treas., Pur. Agt. and Gen. Mgr.—S. C. Tracy
PRODUCTS—Manufacture and repair boilers, tanks, stacks, hoppers, etc.; general steel fabrication
Incorporated

NORFOLK IRON & WIRE WORKS, INC., 136 W. Wilson Ave., Norfolk, Va.
Pres.—A. LeB. Ribble
Sec.—M. L. Bruns
Treas. and Gen. Mgr.—R. W. Ribble
Mach. Shop Supt.—H. M. Jackson
PRODUCTS—Ornamental iron work, light structural steel, wire guards, partitions, stairs, miscellaneous house builders iron
Capacity—$150,000 annually
Capital—$14,000

NORTH DAKOTA METAL CULVERT CO., Fargo, N. D.
Pres.—Alex. Bruce
Vice Pres. and Treas.—E. F. Conney
Asst. Treas., Sec. and Sales Mgr.—R. C. Kiefer
PRODUCTS—Sheet metal, culverts, tanks, etc.
Incorporated—$100,000

NORTH EAST IRON WORKS CO., Summer St., South Boston, Mass.
PRODUCTS—Steel plate work, boilers and steel work

NORTH RIVER IRON CO., Hoboken, N. J.

NORTHERN BLOWER CO., THE, 6409 Barberton Ave., Cleveland, O.
Pres. and Gen. Mgr.—M. A. Eiben
Vice Pres., Treas. and Asst. Gen. Mgr.—L. L. Eiben
P. A.—A. Hanzeley
Sales Mgr.—C. H. Uthe
Supt.—J. Pike
Chief Engr.—Charles Weger
Chief Draftsman—J. G. Gedeon
Foreman—P. Pecke
Storekeeper—M. Benidick
PRODUCTS—Sheet metal work
Railroad—W. & L. E.

NORTHERN BOILER & STRUCTURAL IRON WORKS, 807 So. Oneida St., Appleton, Wis.
Pres., Treas. and G. M.—Wm. A. Timm
Vice Pres.—M. C. Timm
Asst. Treas., Sec. and Pur. Agt.—R. H. Pfund
Foreman—Edward Wirtz
PRODUCTS—Boilers, smoke stacks, tanks, fabricated structural steel, erection, plate and sheet iron work and repairs
Incorporated—$100,000; issued, $65,300

Railroads—C. M. & St. P., C. & N., M. St. P. & Sault Ste. Marie

NORTHWESTERN BOILER WORKS, 315-317 Banks Ave., Superior, Wis.
Pres. and Treas.—Edw. Callison
Vice Pres.—Norman E. Callison
PRODUCTS—Boiler making, sheet metal work and repairing
Incorporated—$16,000

NORTON CO., ALFRED E., 56 W. 45th St., New York, N. Y. Plant: Boonton, N. J.
PRODUCTS—Structural steel work

NOVELTY STEAM BOILER WORKS CO., Clare and Kloman Sts., Baltimore, Md.
Pres. and Gen. Mgr.—C. C. Lanman
Treas. and Pur. Agt.—H. D. Meacham
Vice Pres. and Sec.—R. J. Kitchen
Supt.—E. C. Schroder
PRODUCTS—Steel tanks
Incorporated

NUHOUSE ENGINEERING WORKS, 1914 Newport Ave., Chicago, Ill.

O

OAKES & BURGER CO., Cattaragus, N. Y.
PRODUCTS—Steel plate construction

O'BRIEN BOILER WORKS CO., JOHN, 1601 No. 11th St., St. Louis, Mo.
Pres. and Treas.—James A. McKeown
Vice Pres.—M. A. McKeown
Sec.—L. Finkelday
Pur. Agt.—George J. Charlier
Engr.—Wm. E. Tritschler
PRODUCTS—Power water tube boilers, horizontal return tubular boilers
Incorporated

O'BRIEN STEEL CONSTRUCTION CO., 19 Chartiers St., Washington, Pa.

OCEAN ENG. & BOILER WORKS, 62 Sedgwick St., Brooklyn, N. Y.

OCEAN SHORE IRON WORKS, 550 8th St., San Francisco, Cal.
PRODUCTS—Steel tanks

ODIN CONSTRUCTION CO., Monroe St., Titusville, Pa.
Pres.—L. D. Fulton
Vice Pres.—F. C. Stevens
Treas.—J. H. Fisher
Pur. Agt.—J. G. Pierce
Mgr. Const.—S. J. Melville
PRODUCTS—Fabricated steel plate, structural and welded products, tanks, pipe lines, smoke stacks
Incorporated
Railroads—N. Y. C., Penna., sidings

ODERMATTS BOILER WORKS, PAUL, 527 Brannon St., San Francisco, Cal.
PRODUCTS—Boilers

O'DOUGHERTY CO., FRANCIS, 650 Bedford Ave., Brooklyn, N. Y.
PRODUCTS—Boilers, etc.

OFELDT GAS FIRED BOILER CO., 523 Atlantic Ave., Brooklyn, N. Y.

O'HANLON BOILER WORKS, THE THOS., 411-415 Pine St., Utica, N. Y.
Prop.—A. J. O'Hanlon
Chief Engr., Mgr. Const., Supt. and Draftsman—F. S. Mahoney
PRODUCTS—Boilers and tanks made and repaired, smoke stacks built and erected general sheet iron work, electric and acetylene welding
Railroads—N. Y. C., W. S., D. L. & W., N. Y. O. & W., R. W. & O., Adirondack

OHIO CORRUGATING CO., Warren, O.
Pres. and Treas.—W. M. Kerr
Vice Pres., Gen. Mgr. and Chief Engr.—C. H. Riegel
Sec. and Sales Mgr.—J. N. Kerr
Asst. Treas. and Asst. Sec.—Fred L. Gorman
Pur. Agt.—L. C. Mitchell
Works Mgr. and Gen. Supt.—G. A. Davis
Chief Draftsman, Mech. Engr.—H. G. Vaughn
Foreman Mach. Shop—Joe Filler
PRODUCTS—Steel barrels
Capacity—100,000 per month
Incorporated
Railroads—Penna., B. & O., Erie

OHIO MACHINE & BOILER CO., 1503 University Road, Cleveland, O.

OIL CITY BOILER WORKS, Oil City, Pa.
Pres.—Charles O'Day
Vice Pres. and Gen. Mgr.—W. H. Heagerty
Treas. and Sec.—F. M. Baldwin
Pur. Agt.—F. H. Ande
Storekeeper—C. Gavin
Sales Mgr.—J. J. O'Connor
Supt.—T. J. Flanagan
Chief Engr.—J. Mays
Elec. Engr.—J. Donnelly
Foreman Machinist—F. Emerick
Foremen—L. Familo and R. Myers
Blacksmith—W. Tobin
PRODUCTS—Boilers and steel plate work
Railroads—Erie, Penna., N. Y. C.

OKLAHOMA BOILER & ENG. CO., 221 Compress St., Oklahoma City, Okla.

OKLAHOMA BOILER & SHEET METAL WORKS, West A St., Picher, Okla.
Owner—John E. Landis
PRODUCTS—Boiler, sheet metal and structural steel
Railroads—N. O. E. and M. M. B.

OKLAHOMA BOILER & WELDING CO., Okmulgee, Okla.
Mgr.—S. D. Lynn

OKLAHOMA IRON WORKS, 805 E. Archer Ave., Tulsa, Okla.
Pres. and Gen. Mgr.—J. W. Sloan
Vice Pres.—J. R. Sharp
Treas., Sec. and Pur. Agt.—A. F. Bourne
Gen. Supt. and M. M.—Wm. Wright
Elec. Engr.—R. E. Means
Draftsman—R. R. Sloan
Mach. Shop Supt.—C. B. Crisman
Storekeeper—R. L. Cobb
PRODUCTS—Manufacturers of oil well, drilling and fishing tools
Capital—$3,000,000
Railroads—M. K. & T., A. T. & S. F., M. V., St. L. & S. F.

OLD DOMINION MARINE RAILWAY CORP., foot Chestnut St., Norfolk, Va.
Pres.—Alex. Warren
Vice Pres.—J. H. Woodington
Vice Pres.—P. C. Hastings
Treas. and P. A.—Geo. A. Broughton
Sec.—C. F. Schuler
Storekeeper—Jos. E. Gould
Gen. Mgr.—W. G. Larmour
Mgr. Const.—R. A. Hutchins
Foreman Mach.—N. G. Holland
EQUIPMENT—Two marine railways, shipyard, foundry, carpenter, machine smith and boiler shops
PRODUCTS—Marine and general repairs
Incoroporated
Railroad—Norfolk So. switch, and our own wharf on Norfolk Harbor

OLDMAN MAGEE BOILER WORKS, INC., 88 Illinois St., Buffalo, N. Y.

OLMSTEAD, R. E., Orwell, N. Y.
PRODUCTS—Boilers and repair work

OLMSTEAD & SONS, A. E., Pulaski, N. Y.
PRODUCTS—Boilers, tanks and repairs

OLSEN, I., 558 80th St., Brooklyn, N. Y.
PRODUCTS—Boilers, repairs, etc.

OLSON MFG. CO., C. W., 1300 Quincy St., Minneapolis, Minn.
Pres., G. M. and P. A.—C. W. Olson
Vice Pres. and Mgr. Const.—H. L. Fordman
Sec., Treas. and Asst. G. M.—J. P. Murphy
Sales Mgr.—Nels Ziron
Supt.—B. Farth
Chief and Struct. Engr.—Walter Nordquist
Foreman Repairs—John G. Olson
Foreman Struct. Shop—Alex. Hendricson
Foreman Ornamental Shop—W. Jacobson
Foreman Stair Dept.—Mike Aggoe
Foreman Wrought Iron Dept.—H. W. Johnson
Foreman Pattern Shop—C. A. Carlson
Storekeeper—Eric Hagan
PRODUCTS—Structural steel and ornamental iron and bronze
Capacity—$500,000 per year
Incorporated—$50,000 preferred; $100,000 common; issued, $85,000 common; $8,000 preferred
Railroad—Spur track

OMAHA GENERAL IRON WORKS, 1806 Mason St., Omaha, Neb.
Pres.—Geo. Mesershm'dt
Vice Pres.—Tom Packer
Sec. and Treas.—D. B. VanEvery
Foreman—O. H. Scheive
PRODUCTS—Structural steel, architectural iron
Incorporated—$25,000; issued, $17,200
Railroad—C. G. W. track

OMAHA STEEL WORKS, 4802 Leavenworth St., Omaha, Neb.
See list of officials in B. F. & S. P. section

ONEIDA COUNTY BOILER WORKS, 842 Broad St., Utica, N. Y.
Pres., Treas. and G. M.—Rocco Graziadei
Sec., Pur. Agt., Sales Mgr. and Supt.—Geo. R. Graziadei
Foreman—A. Hopsicker
PRODUCTS—Boiler repairing, electric and gas welding
Ownership—Private

OPTENBERG IRON WORKS, 7th and Clara Ave., Sheboygan, Wis.
Pres.—R. W. Busse
Vice Pres.—A. F. Moeller
Treas. and Sec.—C. P. Finke
EQUIPMENT—Boiler, structural and machine shops
PRODUCTS — Steel boilers, structural work, iron working machinery
Incorporated—$50,000
Railroad—C. & N. W.

ORANGE CAR & STEEL CO., Orange, Tex.
Pres.—S. M. White
Assts. to Pres.—H. J. Lutcher Stark and W. H. Stark
Treas.—T. F. Coyle
Sec.—C. C. Leedy
Pur. Agt. and Storekeeper—T. W. Lawler
Gen. Mgr.—J. I. Byrne
Supts.—F. L. Corey and T. H. Smith
Chief Draftsman—N. E. Colburn
Chief Engr.—D. Ording
M. M.—Dan Cable
EQUIPMENT—Machine shop, marine way, facilities for repairing cars
PRODUCTS—Structural steel, tanks, cars and marine work
Capacity—1,500 to 2,000 tons per month
Incorporated

OREGON BOILER WORKS, 3493 Klickital St., Seattle, Wash.

OREGONIA BRIDGE CO., THE, Lebanon, O.
Pres. and Gen. Mgr.—C. A. Spencer
Vice Pres. and Chief Engr.—C. H. Hittle
Treas. and Supt.—Samuel Cornelius
Sec.—H. W. Ivins
PRODUCTS—Fabrication and erection of bridge and structural steel
Capacity—250 tons per month
Incorporated — $50,000; bonds issued, $9,000
Railroad—Penna., private siding

ORNAMENTAL IRON WORKS CO., THE, 929 Sweitzer Ave., Akron, O.
Pres.—Fred Zindel
Vice Pres. and Gen. Mgr.—August Boesche
Treas. and Sec.—W. A. Boesche
Asst. Sec.—Theodore L. Cook
Asst. Gen. Mgr.—Andy Neidert
Chief Engr.—K. K. Keller
PRODUCTS — Ornamental, architectural and wire work
Incorporated—$125,000
Railroads—B. & O., Penna.

OSBORN MACHINE CO., DuBois, Pa.
PRODUCTS—Structural and steel plate work

OSBORN'S SONS, J. F., 707 W. Main St., Clarksburg, W. Va.
PRODUCTS—Boilers, tanks and repairs

OTIS-SAWYER BOILER & FOUNDRY CO., 244 West Seneca St., Oswego, N. Y.
Pres.—John F. Otis
Vice Pres. and Treas.—Wm. F. Sawyer
Sec.—M. A. Fern
Pur. Agt., G. M. and M. E.—H. W. Lyke
Supt.—Geo. Hersog
PRODUCTS — Manufacture power and heating boilers, oil and coal burning
Railroads—N. Y. C., D. L. & W., O. & W.

OTTO BOILER CO., GEORGE, 1905 E. Washington St., Springfield, Ill.
PRODUCTS—Boiler, steel plate work and repairs

OTTUMWA BOX CAR LOADER CO., W. 2nd St., Ottumwa, Ia.
Pres.—Henry Phillips
Sec.—Howard A. Phillips
Vice Pres., Treas. and G. M.—P. P. Phillips
Pur. Agt.—W. F. Maurer
PRODUCTS—Coal mining machinery, box car loaders and unloaders, flexible conveyors
Incorporated
Railroads—C. B. & Q., C. M. & St. P., Rock Island, Wabash

OWEGO BRIDGE & IRON CO., Owego, N. Y.

OWOSSO BOILER & WELDING WORKS, Lynn and Lansing Sts., Owosso, Mich.
Pres. and Gen. Mgr.—J. L. Brandel
Vice Pres. and Asst. G. M.—C. H. Dingman
Treas. and Supt.—M. A. Brown
Chief Engr.—R. Owen
Supt.—W. B. Cooper
PRODUCTS—Tanks and sheet metal work
Partnership
Railroads—N. Y. C., G. T., M. V.

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PACIFIC BOILER & WELDING WORKS, 929 East 11th, Tacoma, Wash.
Pres.—E. W. Schulz
Vice Pres.—Louise Schulz
Sec.—Leatha Maddex Hale
Elec. Engr.—G. Gunnell
Foreman—Ray Johnson
PRODUCTS—Boiler making, ship work, general electric and oxyacetylene welding tanks
Capacity—$75,000 per month
Incorporated—$100,000
Railroads—N. P., O. & W., S. N., C. M. & St. P., International boat service

PACIFIC BRIDGE CO., E. Salmon and Water Sts., Portland, Ore.
Chairman and Pres.—C. F. Swigert
Vice Pres.—H. J. Hendricks
Treas. and C. E.—Philip Hart
Sec.—Geo. F. Schott
Pur. Agt.—J. J. Harper
PRODUCTS—General construction, bridges, road work, etc.
Incorporated—$300,000

PACIFIC COAST BOILER CO., 235 Main St., San Francisco, Cal.

PACIFIC IRON & STEEL CO., INC., 2637 Humboldt St., Los Angeles, Cal. Also plant, So. San Francisco, Ca.
Mgr. Tower Dept.—George E. Honn
Supt. Tower Dept.—C. J. Sjolander
PRODUCTS—Structural steel work, steel plate

PACIFIC IRON WORKS, E. 29th and Clackamas St., Portland, Ore.
PRODUCTS—Structural steel and iron work

PACIFIC ROLLING MILL, THE, Kansas and Main Sts., San Francisco, Cal.
EQUIPMENT—Fabricating plant
Capacity—2,000 tons per month

PACIFIC STEEL BOILER CORP., Dahringer Road, Waukegan, Ill. Plants: Waukegan, Ill., and Bristol, Pa.
Pres.—O. T. Nelson
Vice Pres. and Sales Mgr.—John R. Collette
Vice Pres.—Fred R. Stanley
Sec. and Treas.—V. A. Vesper
Pur. Agts.—N. C. Chatterton and E. J. Grady
Supt.—A. Sundstrom
Chief Engr.—John W. Turner
PRODUCTS—Low pressure, electric welded and steel heating boilers
Railroads—E. J. & E.

(At Bristol, Pa.)
Supt.—P. C. Kallock
Railroad—Penna.

PACIFIC STRUCTURAL IRON WORKS, 370 10th St., San Francisco, Cal.

PACIFIC TANK & PIPE CO., 320 Market St., San Francisco, Cal. Plant: 400 High St., Oakland, Cal.
Pres.—E. M. Tilden
Vice Pres.—Wave Tilden

Sec.—O. Wiebol
Gen. and Sales Mgr.—F. W. Schuitz
Supt.—Fred Cooper
Chief Engr.—Geo. T. Gerken
PRODUCTS—Manufacturers
Incorporated—$1,500,000

PAGE BOILER CO., THE WM. H., Rose Bldg., Cleveland, O.

PAGE WATER TUBE BOILER CO., 815 Larrabee St., Chicago, Ill.
Pres., Treas. and G. M.—M. E. Page, Jr.
Vice Pres.—A. T. Johanson
Asst. Treas. and Sec.—M. Ahern
Pur. Agt.—C. M. Page
Supt.—Jno. T. Johanson
Chief Engr.—Albert Strum
PRODUCTS—Manufacturers of boilers
Incorporated—$161,000

PALMER IRON & BRIDGE WORKS, 15th, near R St., Sacramento, Cal.

PALMER STEEL CO., THE, 33 Lyman St., Springfield, Mass.
Pres.—Earl Palmer
Vice Pres., Chief and Struct. Engr.—Raymond E. Palmer
Treas.—Wayne F. Palmer
Sec.—Donald F. Palmer
Supt.—H. N. Haskell
EQUIPMENT—Fabricating plant
PRODUCTS—Structural steel of all kinds
Capacity—1,500 tons per month
Incorporated—$250,000; all issued
Railroad—B. & M., main line

PAN-AMERICAN BRIDGE CO., New Castle, Ind.
Pres.—H. E. Jennings
Vice Pres.—W. C. Bond
Treas. and Gen. Mgr.—Jesse D. Smith
Sec. and Chief Engr.—Wm. H. Converse, Jr.
Gen. Supt.—Cortes Lowry
Asst. Chief Engr.—T. E. Richards
Chief Draftsman—J. K. Wise
Foreman Mach.—J. M. Powers
PRODUCTS—Fabricated structural steel
Capacity—5,000 tons annually

PARDEL CORP., 9th and Sansom Sts., Philadelphia, Pa.
Pres.—J. C. Parker
Treas.—S. C. Delamater
Sec.—U. Sontheimer
PRODUCTS—Boiler construction and parts
Incorporated

PARKERSBURG RIG & REEL CO., THE, 620 Depot St., Parkersburg, W. Va.
Pres.—John M. Crawford
Vice Pres. and G. M.—H. J. Lockhart
Sec. and Treas.—David B. Crawford
Asst. Sec. and Asst. Treas.—Casper A. Ruf
Pur. Agt.—D. H. Wolfe
Sales Mgr.—W. T. Hazel
Supt.—H. J. Haddox
Chief Engr.—Wm. Schwemlein
PRODUCTS—Fabricating oil well equipment
Capacity—3,000 tons per month
Incorporated—$5,000,000; issued $3,000,000
Railroad—B. & O.

PARSONS CO., THE, Newton, Iowa
Pres. and Gen. Mgr.—H. C. McCardell
Vice Pres.—F. H. Bergman
Vice Pres. and Sales Mgr.—N. Dewind
Treas.—O. F. Ecklund
Sec. and Chief Engr.—G. A. Vaughn
Pur. Agt.—D. M. Clark
Foreman Mach.—E. A. Olsen
Draftsman—A. F. Huyler
Storekeeper—B. C. Owens
EQUIPMENT—Moore electric furnace, steel foundry, machine shop, structural shop, erecting shop
PRODUCTS—Steel castings, trench excavating machinery
Incorporated—$750,000; issued, $500,000; bonds, $100,000
Railroad—C. R. I. & P.

PARSON, F., 301 Strand St., Shreveport, La.
PRODUCTS—Boilers, repairs and tanks

PETAPSCO IRON WORKS, INC., Ostend and Wicomico Sts., Baltimore, Md.
Pres. and Treas.—Charles A. Dollinger
Gen. Mgr.—C. R. Webber
Struct. Engr.—Wm. R. Brown
PRODUCTS—Fabricators of steel for office buildings, warehouses, power stations, grain elevators and industrial plants
Incorporated

PATERSON BRIDGE CO., 501 Straight St., Paterson, N. J.
Chairman—F. C. Reinhardt
Pres. and Treas.—J. B. Cooke
Vice Pres.—W. E. Cooke
Sec. and Asst. Treas.—A. Choyce
Pur. Agt.—J. C. Whitney
Supt.—H. Armitt
Struct. Engr.—H. C. Damon
Chief Draftsman—Wm. Petrie
PRODUCTS—Structural steel
Capacity—36,000 tons annually
Incorporated—$750,000
Railroads—D. L. & W. and Erie

PATTIN BROTHERS CO., THE, 126 Second St., Marietta, O.
Pres.—W. F. Meister
Vice Pres and Treas.—J. S. Blair
Sec.—A. E. Moses
Pur. Agt.—J. S. Blair
Pur. Agt., G. M. and Mgr. Const.—W. F. Meister
Chief Draftsman—Adam Conrath
Foreman Mach.—B. J. Wilking
Foreman Repairs—F. N. Curtis
Blacksmith—W. Warren
PRODUCTS—Oil field equipment and machinery, gears engines, compressors, pumping powers, boilers, steel tanks
Incorporated—$500,000; issued, $307,000
Railroads—Penna., B. & O., Boat

PAXTON & VIERLING IRON WORKS, Burlington Station, Omaha, Neb.
Pres.—A. J. Vierling
Vice Pres.—Louis Vierling
Treas.—B. J. Scannell
Sec.—F. R. Vierling
Pur. Agt.—R. Feltman
Sales Mgr.—Fred H. Marsh
Supt.—Wm. P. Russell
Asst. Gen. Supt.—John H. Merz
Chief Draftsman—George E. Row
Foreman Mach.—L. R. Feller
PRODUCTS—Structural and miscellaneous iron and steel work and foundry products

PEARL CITY BOILER & STEAMBOAT CO., 222 W. 11th St., Jamestown, N Y.

PEARSON MFG. CO., 800 Beaver Ave., N. S., Pittsburgh, Pa.
Pres. and G. M.—C. C. Kleinschmidt
Sec. and Treas.—O. L. Gerwig
PRODUCTS—Boilers, stacks, tanks, gear covers, buckets, etc.
Incorporated—$25,000
Railroad—B. & O. siding

PEERLESS HEATER CO., 1235 St. Clair Ave., Cleveland, O.

PEERLESS MACHINERY MFG. CO., 2020 E. 12th St., Oakland, Cal.
Pres. and G. M.—M. G. Pascale
Sec.—Winifred Buchanan
Asst. Gen. Mgr.—Chas. Pascale
Pur. Agt.—K. G. Stiles
Storekeeper—W. M. Smith
Supt.—Geo. Smith
Blacksmith—Dan Lopez
EQUIPMENT — Punches, shears, rolls, radial drills, drill presses, lathes, bolt machine, forges, air compressors
PRODUCTS—Boiler and tank work, ornamental and structural and machine work, etc.
Railroad—Spur track across street; by truck to docks

PEERLESS MACHINERY & REPAIRING CO., 41 Charles St., Charleston, S. C.

PEERLESS STEEL CO., Ardmore, Okla.
PRODUCTS—Structural steel and iron work

PELZ SONS, WM., 13 Third Ave., Evansville, Ind.
Foremen—Ed. L. Pelz, P. R. Pelz
PRODUCTS—Boiler repairs
Partnership

PENCE, JOHN, West Alexandria, O.
PRODUCTS—Structural steel and iron work

PENN BOILER & ENGINEERING WORKS, INC., Kurtztown Road, Reading, Pa.
Pres. and Chief Engr.—John J. Daly
Vice Pres. and Asst. G. M.—James Brensinger
Vice Pres., Treas., Sec., P. A. and G. M. —J. Ira Long
Storekeeper—John Weidner
Mgr. Const. and Supt.—Charles Fehr
PRODUCTS—Stacks, domestic hot water heating boilers, tanks, boilers, welding, etc.
Incorporated—$75,000; issued, $50,000

PENN BRIDGE CO., Beaver Falls, Pa.

PENN FOUNDRY & MFG. CO., Reading, Pa.
Pres.—Edgar P. Fidler
Treas. and Sec.—Edward K. Mark
Chief Draftsman—Fred Rudisil
Foreman Blacksmith—Walter Smith
PRODUCTS—Contractors, buckets, hoisting tubs, skips, barrows, industrial cars, lead and tar furnaces, concrete carts, steel plate construction and forgings, iron and semi-steel castings
Incorporated—$40,000
Railroads—Reading, Penna.

PENNSYLVANIA BOILER WORKS, 12th and Pennsylvania Ave., Erie, Pa.
Pres.—B. B. Nagle
Sec.—H. F. Yokes
PRODUCTS—Fire tube power boilers
Incorporated—$500,000
Railroads—N. Y. C., Penna., sidings

PENNSYLVANIA ENGINEERING WKS., New Castle, Pa.
Pres.—W. H. Lewis
Vice Pres. and Treas.—Wm. S. Wheeler
Sec.—S. B. Cleal
Sales Engr.—Clark Rossiter
Supt.—W. H. Shipley
Chief Engr.—Lee Allen
Elec. Engr.—Anthony Neeny
PRODUCTS—Bast furnace and steel plant equipment
Incorporated
Railroads—Penna., P. & L. E., B. & O.

PENNSYLVANIA FURNACE & IRON CO., 316 Pine St., Warren, Pa.
Pres.—H. A. Crary
Vice Pres. and G. M.—A. L. Schellhamer
Treas. and Sec.—C. J. Crary
Asst. Treas., Asst. Sec. and P. A.—R. L. Blodgett
PRODUCTS — Underground and truck tanks, smoke stacks and breechings, machine guards and miscellaneous sheet metal construction
Incorporated — $150,000; bonds issued, $100,000
Railroads—Penna., two lines, N. Y. C.

PENNSYLVANIA RANGE BOILER CO., 2010-24 No. 10th St., Philadephia, Pa.
Pres.—Laurance B. Levy
Treas. and Sec.—M. M. Bedeson
PRODUCTS—Range boilers and expansion tanks
Incorporated

PENSACOLA SHIPBUILDING & ENG. CORP., Pensacola, Fla.
Pres.—E. M. Elliott
Incorporated—$250,000

PERINE BROS. IRON WORKS, 809 Quincy St., Topeka, Kan.
Struct. Engr.—L. L. Perine
M. M.—Charles Roberts
Foreman—A. L. Thomas
PRODUCTS—Fire escapes, wire and iron work
Capacity—$1,000 per week
Partnership
Railroads—A. T. S. Fe, Mo. Pac., Rock Island, Union Pac.

PERRY & SON, JOHN W., 416 Canal St., Syracuse, N. Y.
PRODUCTS—Boiler and steel plate work

PERTH AMBOY DRY DOCK CO., foot of Broad St., Perth Amboy, N. J.
Pres.—W. Parker Runyon
Treas. and Sec.—C. D. Snedeker
Pur. Agt.—Harold D. Runyon
Storekeeper—William Horner
Sales Mgr.—C. Parker Runyon
Gen. Mgr.—Axel Olsen
Gen. Supt.—D. C. Preacher
Supt. Boiler and Iron Depts.—James O'Hagan
C. E. and Supt. Mach. Shop—George W. Rankin
Elec. Engr.—Frederick Clayton
Foreman Wood Repairs—Wm. P. Dodge
Blacksmith—James Gilfillan
Foreman Wood Caulker—M. Schenck
Dock Master—A. F. Rankin
PRODUCTS — General ship repairing, wooden and steel vessels
Capacity—Five floating dry docks up to 10,000 tons capacity
Railroad—Lehigh Valley siding

PETROLEUM IRON WORKS CO., Sharon, Pa.
Pres.—J. L. Considine
Vice Pres. Opr.—E. F. Shanor
Vice Pres. Sales—J. A. Connelly
Treas.—H. C. Knowles
Sec. and Asst. Treas.—J. L. Sullivan
Asst. Sec.—B. L. McDowell
Pur. Agt.—J. T. O'Connor
Gen. Supt.—H. P. Mardersteck
Chief Engr.—Lyle Merrick
M. M.—Fruit Smith
PRODUCTS—Steel plate fabrication and construction, oil storage tanks, refinery equipment, stacks, penstock, etc., steel barrels and drums; welded annealing boxes and charging boxes
Capital—$3,000,000
Railroads—Erie, P. & L. E., Penna., N. Y. C.

PETROLEUM SHORE IRON WORKS, 550 8th St., San Francisco, Cal.
PRODUCTS—Steel tanks

PHOENIX BRIDGE CO., THE, 22 So. 15th St., Philadelphia, Pa. Pant: Phoenixville, Pa.
Pres.—George C. Carson, Jr.
Vice Pres.—Frank P. Norris
Treas.—Wm. H. Reeves. Jr.
Asst. Treas.—Frank Reynolds
Sec.—George Gerry White
Asst. Sec.—G. H. Lange
Sales., Gen. Mgr. and Chief Engr.—Clyde MacCornack
Mgr. Const.—Wm. H. Shoemaker
Struct. Engr.—J. R. Lambert
Chief Draftsman—C. S. Widdicombe
PRODUCTS—Structural steel, bridges and buildings
Capacity—40,000 tons per annum
Incorporated

PHOENIX IRON & BOILER WORKS, 21st and R Sts., Sacramento, Cal.
PRODUCTS—Boiler, tank, smokestack and general repairs
Ownership—Private
Railroad—South. Pac.

PIDGEON-THOMAS IRON CO., INC., 94 No. Second St., Memphis Tenn. Plant: Main St. and Iowa Ave.
Pres., G. M. and Pur. Agt.—Phil Pidgeon
Vice Pres. and Mgr. Const.—Frank Pidgeon
Sec., Treas. and Asst. G. M.—James Pidgeon
Storekeeper—A. McTaggert
Sales Mgr.—S. B. Patterson
Supt.—H. S. Edwards
Chief and Struct. Engr.—B. W. DuBose
Chief Draftsman—J. P. Condon
Foreman Mach.—J. W. Brown
Foreman—John Tatzsch
PRODUCTS—Fabrication of structural and reinforcing steel, and jobbers of same and contractors; railway and mill supplies
Incorporated—$600,000
Railroads—Four private spur tracks from main line I. C. R. R.

PIETSCH STRUCTURAL AND ORNAMENTAL IRON WORKS, FERDINAND. 617-632 Cedar St., Milwaukee, Wis.
Partners—Hugo L. Pietsch, Ferd. Pietsch and Albert Pietsch
PRODUCTS—Structural steel and ornamental iron work

PIERCE, BUTLER & PIERCE MFG CO., 5227 Grand River Ave., Detroit, Mich.
PRODUCTS—Boilers

PILSEN FDRY. & IRON WORKS, 1526 32 W. 22nd St., Chicago, Ill.
PRODUCTS—Structural steel and castings

PINKERTON, RACHEL, ESTATE OF, Green Island, Troy, N. Y.
PRODUCTS—Boiler making

PITTSBURG BOILER & MACHINE CO., THE, Third and Olive Sts., Pittsburg, Kan.
Chairman—Ira Clemens
Pres. and Gen. Mgr.—Thomas McNally
Vice Pres. and Treas—Thomas F. Stevenson
Sec.—D. W. Jones
Pur. Agt.—A. L. Tanner

Storekeeper—E. Henney
Sales Mgr.—C. W. Waterman
Supt.—P. Brown
Chief Draftsman—G. W. Lucas
Chief and Mech. Engr.—H. W. Riley
Elec. Engr.—Glen Dearmond
Foreman Machinist—John Paris
Foreman Blacksmith—G. W. Laney
Foreman Boiler Shop—J. A. Doyle
Foreman Car Shop—Fred Smith
EQUIPMENT—Boiler and tank shop, foundry, machine and forge shops
PRODUCTS—Coal mine equipment, oil and metal
Incorporated—$300,000; issued $290,000
Railroads—Frisco, K. C. S., Mo. Pac., Santa Fe

PITTSBURGH BRIDGE & IRON WKS., Bessemer Bldg., Pittsburgh, Pa. Plant: Rochester, Pa.
Pres.—G. E. Klingelhofer
Vice Pres.—F. C. Kohne
Vice Pres. and Gen. Mgr.—E. K. Klingelhofer
Vice Pres. and Sec.—L. O. Klingelhofer
Treas.—J. O. Klingehofer
Sales Mgr.—H. A. Wilson
Chief Engr.—J. A. McEwen
PRODUCTS—Structural steel
Capacity—25,000 tons annually
Incorporated

PITTSBURGH DES-MOINES STEEL CO., 600 Professional Bldg., Pittsburgh, Pa. Plant: Neville Island on the Ohio river, near Pittsburgh, Pa.
Pres.—W. H. Jackson
Vice Pres.—W. W. Hendrix
Treas. and Sec.—G. A. Smith
Pur. Agt.—H. M. Peightel
Mgr. Const.—H. W. Smith
Chief Engr.—J. O. Jackson
Chief Draftsman—I. D. Goodwin
PRODUCTS—Elevated steel tanks, storage tanks, plate work, structural steel

PITTSBURGH PIPING & EQUIPMENT CO., 43rd St. and A. V. Railroad, Pittsburgh, Pa.
Pres.—Geo. H. Danner
Vice Pres. and Sec.—Chas. R. Rall
Treas.—M. B. Schiller
Asst. Sec.—L. K. Hamilton
Pur. Agt.—Karl F. Tiegel
Sales Mgr.—Robt. Whyte
Chief Engr.—F. P. Meyer
EQUIPMENT—Pipe fabricating shop, machine shop and foundry
PRODUCTS—All classes of piping

POLE & TUBE WORKS, INC., THE, Ave. D and Murray St., Newark, N. J.
Pres., Treas. and G. M.—Max Vintschger
Vice Pres.—Joseph I. Simons
Sec.—Thaddeus J. Riordan
Asst. Treas. and Supt.—A. A. Sacke
PRODUCTS—Steel flag poles

POLK-GENUNG-FOLK CO., Fort Branch, Ind.
Pres. and G. M.—W. C. Polk
Vice Pres.—R. M. Stormont
Treas. and Sec.—Homer T. Genung
Asst Treas. and Sec.—W. A. Polk
Pur. Agt.—R. K. Polk
Gen. Mgr.—W. C. Polk
Chief Draftsman—Robert H. Vickery
EQUIPMENT—Factory for making all steel circular concrete forms; factory for making galvanized steel battens for vertical siding
PRODUCTS—Concrete forms and metal batten (nothing but steel)
Incorporated—$50,000

POLLOCK CO., WM. B., Youngstown, O.
Pres. and Treas.—Wm. G. Wilson
Vice Pres. and G. M.—J. H. Warne
Asst. Sec.—M. B. Sweeney
Pur. Agt.—James Gilboy
Director Sales—E. J. Reilly
Gen. Supt.—Christian A. Wills
Chief Engr.—Albert N. Smith
Chief Elec. and M. M.—John B. Morgan
Foreman Machinist—J. W. Elliott
PRODUCTS—Blast furnace construction, ladle cars for iron or slag
Incorporated—$500,000
Railroads—Erie, Penna., B. & O. and P. & L. E.

POLLOCK CO., GEORGE, Sacramento, Cal.
PRODUCTS—Structural steel work

POOLE & McGONIGLE, Portland, Ore.

PORCUPINE CO., Fairfield, Bridgeport, Conn.
Pres.—J. K. Williamson
Vice Pres.—C. W. Brooks
Treas. and Sec.—A. M. Vack
Pur. Agt.—L. H. Burr
Gen. Mgr.—H. H. Williamson
Chief Engr.—W. H. McKinley
Supt. J. R. Williamson
Struct. Engr.—H. V. Goodell
Chief Draftsman—E. J. Costill
PRODUCTS—Structural steel for buildings and bridges, tanks, stacks, towers, boiler breechings, annealing pars
Capacity—750 tons per month
Incorporated—$250,000; issued, $210,000
Railroads—N. Y., N. H. & H., siding

PORTAGE LAKE BOILER WORKS, Hancock, Mich.

PORTLAND CO., 58 Fore St., Portland, Me.
Pres.—Franklin C. Payson
Treas.—P. A. Roberts
Gen. and Sales Mgr.—Geo. F. Reynolds
Supt.—Frank E. Thornes
Chief Draftsman—A. C. Frost
Power Engr.—Wm. G. Allen
PRODUCTS—Marine engines, boilers, foundry work

PORTLAND BRIDGE CO., 128 5th St., Portland, Ore.

PORTLAND BRIDGE & IRON CO., Lewis Bldg., Portland, Ore.

PORTSMOUTH STRUCTURAL STEEL CO., THE, Box 222, Portsmouth, O.
Pres. and P. A.—F. A. Ruhlman
Vice Pres.—S. R. Wolfe
Sec. and Treas.—M. J. Ruggles
Gen. and Sales Mgr.—S. R. Wolfe
Mgr. Const.—H. H. Wolfe
PRODUCTS—Structural steel and metal products
Capacity—100 tons monthly
Incorporated—$50,000; issued $24,500
Railroads—N. & W. and B. & O.

POST & McCORD, 101 Park Ave., New York City, N. Y.
Pres.—Andrew J. Post
Vice Pres.—Robert C. Post
Sec. and Treas.—Herbert McCord
Pur. Agt.—E. T. Hadley
Chief Engr.—Aubrey Weymouth
PRODUCTS—Structural steel and general contractors
Incorporated

POWER CITY BOILER CO., Union, near N. Y. C. R. R., Niagara Falls, N. Y.

PRATT CO., HENRY, 2222 So. Halsted St., Chicago, Ill.
PRODUCTS—Boilers, repairs and steel plate work

PREELAND STEEL TANK CO., Portage, Wis.

PRENDERGAST, WM. G., 99 York St., Brooklyn, N. Y.
PRODUCTS—Boilers, tanks and repairs

PRESSED STEEL TANK CO., Milwaukee, Wis.

PROGRESSIVE IRON WORKS, INC., 150 4th St., Chelsea, Mass.

PROSPECT BOILER CO., 301 Ward St., New Brunswick, N. J.

PROVIDENCE BOILER WORKS, 77 So. Water St., Providence, R. I.

PROVIDENCE STEEL & IRON CO., Kinsley Ave., Providence, R. I.
Pres. and Gen. Mgr.—Frank L. Toof
Vice Pres., Sec. and Mgr. Sales—Harry P. Wilson
Treas. and Pur. Agt.—Charles C. Luther
Supt.—P. W. Hilton
Chief Engr.—H. W. Congdon
PRODUCTS—Structural steel and ornamental iron work
Capacity—400 tons per month
Incorporated—$100,000

PROX CO., FRANK, 1201 South First St., P. O. Box 61, Terre Haute, Ind.
Pres. and Treas.—Herman C. Prox
Vice Pres.—Robert F. Prox
Sec.—J. E. Schoemehl
PRODUCTS—Coal mine equipment, mine cars, chains and cutterheads for all makes of electric coal cutters
Incorporated—$150,000
Railroads—N. Y. C., Penna., C. M. & St. P., C. & E. I., T. H. I. & E.

PUEBLO BRIDGE & CONSTRUCTION CO., Pueblo, Col.
Pres. and G. M.—F. H. Bullen
Vice Pres.—M. E. Bullen
Treas. and Sec.—J. A. Bullen
EQUIPMENT—All equipment necessary for building and erecting steel and concrete bridges
Incorporated—$50,000
Railroad—D. R. G. W.

PUGET SOUND BRIDGE & DREDGING CO., 811 Central Bldg., Seattle, Wash.
Pres.—Samue H. Hedges
Vice Pres. and G. M.—Roy E. Miller
Sec.—Raymond J. Huff
Pur. Agt.—J. L. Morrow
Storekeeper—J. T. Forsyth
Chief Draftsman—Peter Jensen
Mech. Engr.—J. B. C. Lockwood
Elec. Engr.—B. G. Flaherty
Foreman Mach.—Anton Clausen
Blacksmith—John Seales
PRODUCTS—Engineering construction
Incorporated
Railroads—G. N., N. P., U. P., Pac., Luckenbach, Alaska Steamship Lines

PUGET SOUND IRON & STEEL WKS., Tide Flats, Tacoma, Wash.
Pres.—John C. Roberts
Vice Pres.—A. C. Marconnier
Treas., Sec. and Gen. Mgr.—W. E. Morris

PUGET SOUND SHEET METAL WKS. 3631 E. Marginal Way, Seattle, Wash.
Pres. and Treas.—D. W. Bowen
Vice Pres.—H. S. Bowen
Sec.—Eden W. Flohr
Mgr. Const.—Frank A. Conrad
PRODUCTS—Sheet metal work, ¼-plate to 30 gauge
Incorporated—$40,000
Railroad—Spur

PUNXSUTAWNEY BOILER WORKS, Punxsutawney, Pa.

PUSEY & JONES, Wilmington, Del.
PRODUCTS—Shipbuilding, steel tanks

PUTNAM CO., THE, 1 Furnace St., Putnam, Conn.
Pres.—A. J. Gifford
Vice Pres.—W. H. Leland
Treas.—S. Reynolds
Sec.—C. T. Lamb
Incorporated

PUTNAM CO., THE, 40 Foster St., Worcester, Mass.
PRODUCTS—Boilers, etc.

PYNE CO., 927 Rupp St., Louisville, Ky.
PRODUCTS—Steel plate work

Q

QUAKER CITY IRON WORKS, 2703 E. Tioga St., Philadelphia, Pa.

Pres.—H. M. League
Vice Pres. and Supt.—Charles E. Frick
Treas.—J. Rodman McCoy
Sec.—J. A. Jensen
Pur. Agt.—J. W. Palmer
Chief Engr.—H. F. Hiney
Mech. Engr.—John Jensen
N. Y. Mgr.—G. M. Heller
PRODUCTS—Riveted and welded steel plate work, oil and water tanks
Capacity—800 to 1,000 tons per month
Incorporated
Railroad—Penna., siding

QUEEN CITY IRON & WIRE WORKS, Denver, Col.

QUINCY ORNAMENTAL IRON WORKS, 212 Summer St., Boston, Mass.

QUINN & CO., H., 14 Wharf St., Gloucester, Mass.
PRODUCTS—Boilers, steel plate work

QUINTARD IRON WORKS, 742 E. 12th St., New York, N. Y.
PRODUCTS—Marine boilers, steel plate work and shipbuilding

R

RABINOWITZ, SIMON, 199 Norfolk St., Newark, N. J.
PRODUCTS—Structural steel

RACINE BOILER & TANK CO., 1523 16th St., Racine, Wis.
Pres. and Gen. Mgr.—H. L. Wratten
Treas. and Sec.—Wm. Teubner
PRODUCTS — Boilers, tanks, welding, heavy sheet metal work
Capacity—$75,000 yearly
Incorporated—$10,000
Railroads—C. & N. W., C. M. & St. P.

RAFFERTY, J. E., 92 2nd St., Boston, Mass.

RALSTON IRON WORKS, 20th and Indiana Sts., San Francisco, Cal.
PRODUCTS—Structural steel and iron work

RASNER & DINGER CO., 850 W. North Ave., N. S., Pittsburgh, Pa.
Pres.—Knox M. Young
Vice Pres., Treas. and G. M.—F. E. Miller
Sec., Pur. Agt. and Supt.—Walter R. Schultise
Asst. Supt. and Draftsman—Geo. Hiller
Power and Elec. Engr.—Jos. Prasky
EQUIPMENT—Machinery for general sheet metal work
PRODUCTS—General sheet metal
Capacity—5 to 8 tons per day
Incorporated—$120,000; issued, $63,700
Railroad—Penna., North Ave. Station

RAY SHEET METAL WORKS, INC., Henrietta Road, Wichita Falls, Tex.
Pres.—F. A. Ray
Vice Pres.—A. H. Britton
Sec. and Treas.—W. R. Ray
Sales Mgr.—H. G. Schueler
Supt.—Frank Elred
PRODUCTS—Oil storage tanks, U. G. gasoline tanks, sheet metal work
Incorporated—$80,000
Railroad—Ft. Worth & Denver, Katy Lines

READER BROS. & HOFFMAN, Tyrone, Pa.
Pres., Treas. and Sec.—John R. Reader
Gen. Mgr. and Draftsman—W. H. Reader
Pur. Agt. and Mgr. Const.—W. T. Reader
PRODUCTS—General sheet steel and angle work; boilers, repairs, hot air furnaces, stacks, tanks, fire escapes, etc.
Partnership
Railroads—Tyrone Freight Sta., P. R. R.

READING SCALE & MACHINE CO., Front and Chestnut Sts., Reading, Pa.

REES & SONS CO., JAMES, Duquesne Way and Fancourt St., Pittsburgh, Pa.
Pres. and G. M.—Thos. M. Rees
Vice Pres.—C. G. Rees
Sec. and Treas.—D. A. Rees
Pur. Agt.—J. N. Blackmore
Asst. Gen. Mgr.—Chas. B. Gearing
Chief Engr.—T. R. Tarn
Struct. Engr.—Wm. Raring
Mech. Engr. and M. M.—Wm. Sterling
Power Engr.—James Kerr
Foreman Mach.—James Lamont
PRODUCTS—Steel hull steamboats, engines, boilers, etc.
Incorporated—$300,000
Railroad—Penna.

REID BROTHERS CO., So. Bellingham, Wash.
Pres.—R. A. Reid
Vice Pres.—R. E. Reid
Sec. and Treas.—T. W. Reid
PRODUCTS—Steam and hot water heating boilers, special boilers, tanks, etc.
Railroads—Water, Great Nor. and N Pac.

REINHART & DONOVAN CO., THE, 801 Tradesmans National Bank Bldg., Oklahoma City, Okla.
Pres.—M. J. Reinhart
Vice Pres.—John M. Reinhart
Treas. and Sec.—D. E. Donovan
Supt.—J. C. Keister
Chief Engr.—E. C. Parker
Draftsman—J. M. Lemon
Power Engr.—C. L. Haight
PRODUCTS—Bridges, buildings, plants, etc.
Incorporated
Capital and Surplus—$500,000

RENNENBERG & SONS CO., E., 2639 Boston St., Baltimore, Md.
PRODUCTS—Steel plate work

REPUBLIC STRUCTURAL IRON WKS. DIV., 1290 East 53rd St., Cleveland, O.
Pres.—I. T. Kahn
Treas.—K. Davidson

Sec.—J. Lehman
Pur. Agt.—J. L. Klier
Sales Mgr.—R. A. Godfrey
Mgr. Const.—W. T. Hayes
Supt.—H. L. Senn
Struct. Engr.—C. F. Gilbert
C. E. and Draftsman—J. F. Maine
M. M.—J. Wentling
PRODUCTS—Fabricated structural steel, ornamental iron, steel warehouse
Capacity—500 tons fabricated steel per month, ornamental iron and steel warehouse tonnage not included
Incorporated
Railroads—Penna., N. Y. C., and others

RESERVE IRON WORKS CO., 6919 Quincy St., Cleveland, O.

REUTER BROTHERS, 58th, Wood and Honore St., Chicago, Ill.
PRODUCT—Structural steel fabrication

REYNOLDS IRON WORKS, J. J., Box 1006, Binghampton, N. Y.

RHODE ISLAND BOILER WORKS, 614 So. Main St., Providence, R. I.

RICH, J. & G., 120 No. 6th St., Philadelphia, Pa.
PRODUCT—Boilers

RICHMOND BOILER WORKS, 1st and Richmond Ave., Richmond, Ind.

RICHMOND ENGINEERING CO., INC., Brook Ave. and S. A. L. Ry., Richmond, Va.
Pres. and Treas.—Ernst W. Farley
Vice Pres.—Thomas J. Starke
Sec.—R. Grayson Dashiel
Asst. Sec.—Guy L. Wiley
Supt.—A. J. Malloy
PRODUCTS — Steel plate construction, tanks, stacks, breechings, etc.
Incorporated
Railroad—Plant siding Seaboard Air Line

RICHMOND SANITARY MFG. CO., 441 2nd St., San Francisco, Cal.
PRODUCTS—Steel range boilers

RICHMOND STRUCTURAL STEEL CO., 18th and Dock Sts., Richmond, Va.

RICHMOND WATER & SOFTENER CO., Richmond, Ind.

RIESECK IRON WORKS, 1201 Metropolitan St., N. S., Pittsburgh, Pa.
Sec.—L. A. Amedick
Gen. Mgr.—E. L. Rieseck
Foreman Repairs—Eugene Schlick
Foremen—Henry Bridge and John Schnabele
PRODUCTS—Structural iron and miscellaneous special work
Partnership
Railroads—Penna., B. & O.

RILEY & CO., T. E., 613 Nash St., St. Louis, Mo.
PRODUCTS—Boilers, repairs

RILEY FDRY. & MACHINE WORKS, JOHN F., 6-12 South St., Charleston, S. C.
Prop. and Mgr.—John F. Riley
PRODUCTS—General jobbing and repair work, boilers and repairs, smoke stacks, tanks, repairing machinery, brass and iron castings, forgings, pattern work

RIPLEY, INC., HENRY T., 80 Boylston St., Boston, Mass.
Pres.—James E. Bewley
Treas.—Emerson Roulston
Sec. and Pur. Agt.—Anna M. Leach
Struct. Engr., Chief Draftsman—Frank Lindstrom
PRODUCTS—Iron and steel for buildings, structural steel and ornamental iron work
Incorporated

RISSBERGER BOILER WORKS, Trivoli St., Albany, N. Y.

RITER-CONLEY CO., Oliver Bldg., Pittsburgh, Pa. Plant: Leetsdale, Pa.
Pres.—C. D. Marshall
Vice Pres.—H. H. McClintic
Vice Pres.—W. S. Mitchell
Treas.—E. J. Patterson
Pur. Agt.—H. C. Mills
Sales Mgr.—H. S. Sanford
Gen. Mgr.—R. A. McKean
Mgr. Const.—J. L. Wisner

(At Leetsdale, Pa.)

Mgr. of Shops—E. H. Millard
Chief Engr.—J. T. Donaldson
Chief Draftsman—J. J. Crowley
Gas Engr.—H. E. Gingrich
Contract Engrs.—C. D. Rawthorne, H. O. Hill, J. M. Roberts and J. A. Nelson
Engr. Spec. Dept.—R. E. Kimball
Foreman—W. H. Jewell
PRODUCTS—Steel plate construction
Capacity—120,000 tons annually
Incorporated
Railroad—Penna.

RIVERSIDE BOILER WORKS, INC., 50 Harvard St., Cambridge, Mass.
Pres., Treas. and G. M.—John S. Nicholl
Vice Pres. and Sec.—R. S. Wayland
Pur. Agt.—A. Holt
Sales Mgr.—L. Burke
Supt.—H. A. Johnson
Chief Engr.—S. Pocus
Draftsman—C. A. Glen
EQUIPMENT—Riveting and welding for all sorts of tanks, galvanizing
PRODUCTS—Range boilers, oil tanks, copper tanks
Incorporated 1913
Capital—$450,000; issued, $349,000
Railroads—Boston and Albany siding

RIVERSIDE BRIDGE CO., Martins Ferry, O.

ROANOKE IRON & BRIDGE WORKS, Walnut Ave., Roanoke, Va.
Pres. and Gen. Mgr.—O. D. Oakey

Vice Pres., Pur. Agt. and Asst. Gen. Mgr.—G. W. Oakey
Vice Pres.—R. H. Angell
Treas. and Sec.—E. M. Mason
Mgr. Const.—H. P. Grim
Supt. Shop—C. L. Wells
Chief Engr.—J. R. Cogar
PRODUCTS—Steel bridges, structural steel, ornamental iron work and jail cells
Incorporated—$123,180
Railroads—Main line N. & W. and Virginian

ROBE PIPE & FDRY. CO., 32nd and Whiteside Ave., Chattanooga, Tenn.

ROBERT IRON WORKS CO., 180 Main St., Boston, Mass.
PRODUCTS—Steel plate work

ROBERTS-HAMILTON CO., 713 So. 3rd St., Minneapolis, Minn.
Pres. and Treas.—E. H. Roberts
Vice Pres.—M. D. Roberts
Sec.—E. E. Roberts
Pur. Agt.—E. W. Peterson
Sales Mgr.—A. G. Heston
Mgr. Const.—A. O. Miller
Chief Draftsman—A. H. Johnson
PRODUCTS—Sheet metal furnace pipe, warm air registers, etc.
Incorporated—$500,000; issued, $253,800
Railroad—C. M. & St. P., trackage

ROBERTS SAFETY WATER TUBE BOILER CO., THE, Oakland St., at Railroad Depot, Red Bank, N. J.
Pres.—Chas. B. Wilkens
Vice Pres. and G. M.—E. Gerry Roberts
Treas.—Carol Dowd
Sec.—Mignon L. Roberts
Supt.—David LeRoy
PRODUCTS—Marine and heating boilers
Incorporated

ROBERTS, THOMAS, Springfield, O.
PRODUCTS—Boilers and repairs

ROBERTSON IRON & STEEL CO., Manayunk, Pa.

ROBERTSON, J. G., 2542 University Place, St. Paul, Minn.

ROBINSON, B. J., 2518 Drummond St., Vicksburg, Miss.
PRODUCTS—Boiler repairs and sheet metal work

ROBINSON BOILER WORKS, A. F., 198 2nd St., Cambridge, Mass.

ROCH IRON WORKS, T., 600 Dorman St., Indianapolis, Ind.
PRODUCTS—Structural steel work

ROCHESTER BRIDGE CO., THE, Rochester, Ind.
Pres.—F. E. Bryant
Treas. and G. M.—H. G. Miller
Asst. Treas.—E. L. Miller
Sec., Pur. Agt. and Asst. G. M.—J. M. McCarty
Sales Mgr.—S. C. Petersen
Supt.—Wm. Sheehan
Struct. Engr.—R. J. Osborn
Draftsman—C. W. Safford
Foreman Mach.—Faye Russell
Foreman—John Stinett
Blacksmith—Ed. Squires
EQUIPMENT—Structural shop, forge shop and machine shop
PRODUCTS—Structural steel, steel bridges
Capacity—150 tons per month
Incorporated—$150,000
Railroads—Erie, N. Y. C., & St. L.

ROCHESTER GEN. BOILER REPAIR CO., 217 No. Water St., Rochester, N. Y.
Pres.—W. J. Routan

ROCHESTER STEEL CONSTRUCTION CO., 297 Portland St., Rochester, N. Y.

ROCK IRON CO., F. N., 139 Magazine St., Boston, Mass.

ROCK ISLAND BRIDGE & IRON WKS., 1601 Mill St., Rock Island, Ill.
Pres.—Walter A. Rosenfield
Vice Pres., Pur. Agt. and G. M.—Edward Manhard
Treas.—Maurice S. Carlson
Sec.—Walter G. Murphy
Supt.—Rollie R. Crouch
Chief Engr.—A. N. Whistler
Struct. Engr.—Hugh A. Kneisley
Chief Draftsman—E. J. Williams
PRODUCTS—Structural steel
Capacity—6,000 tons annually
Incorporated—$100,000
Railroads—R. I., Burlington & St. Paul lines

RODGERS BOILER & BURNER CO., Grand Ave. and G. R. & L. Ry., Muskegon, Mich.

ROGERS BROS. O., Albion, Pa.
PRODUCTS—Structural steel and iron work

ROGERS STRUCTURAL STEEL CO., Eagle St., Corry, Pa.
Pres.—C. R. Rogers
Vice Pres. and G. M.—J. H. Tross
Treas. and Chief Engr.—L. E. Roelofs
Supt.—Earl Haight
Sec. and S. M.—R. A. Ott
PRODUCTS—Fabricated structural steel
Capacity—5,000 tons per annum
Incorporated

ROHAN BOILER WORKS CO., JOHN A., 913 La Beaume St., St. Louis, Mo.

ROOL-NEILSON & CO., 1415 Front St., Sacramento, Cal.
PRODUCTS—Boilers and steel plate work

ROSS, A. T., 44 Brookfield St., Boston, Mass.

ROSS BOILER CO., 3600 Shields Ave., Chicago, Ill.

ROTE & CO., A. B., Lancaster, Pa.
PRODUCTS—Structural steel and iron work

ROURKE & SONS, JOHN, 610 Bay St., Savannah, Ga.
PRODUCTS—Steel repair and boiler work

ROWEKAMP, BERNARD J., 2920 Colerain Ave., Cincinnati, O.
PRODUCTS—Structural steel and iron work

ROY ENGINEERING & IRON WORKS, INC., 51-59 Otsego St., Brooklyn, N. Y.
Pres. and Treas.—G. C. Roy
Vice Pres. and G. M.—R. B. Roy
Pur. Agt.—A. Rader
Supt.—H. S. Swendsen
EQUIPMENT—Steel plate fabricating machinery, steel, iron and brass foundries, machine, pattern, forging and blacksmith shops, stamping presses
PRODUCTS—Steel plate work, tanks, forgings, stampings, special machinery
Incorporated
Railroad—Atlantic Terminal

RUNYAN BOILER WORKS, Chillicothe, cor. 17th St., Portsmouth, O.
Prop.—William W. Runyan
Struct. Engr.—H. M. Runyan

RUSSELL BOILER WORKS, DANIEL, 93 Boston St., Boston, Mass.

RUSSELL BOILER WORKS, JAMES, 9 Dewar St., Dorchester, Boston, Mass.

RYAN BROTHERS, 811 No. Lewee St., St. Louis, Mo.
PRODUCTS—Boilers, repairs and sheet metal work

RYAN IRON WORKS, INC., E. T., 19 Braintree St., Allston Station, Boston, Mass.
Pres.—E. T. Ryan
Treas. and Sec.—Adolf A. Lederhos
Pur. Agt.—W. A. Martin
PRODUCTS—Ornamental iron and bronze work
Incorporated—$4,500,000
Railroad—B. & A.

S

SACKETT SCREEN & CHUTE CO., H. B., 1685 Elston Ave., Chicago, Ill.
Pres. and Treas.—T. A. Jones
Vice Pres.—W. G. Jones
Sec., G. M. and P. A.—W. A. Jones
Supt.—E. H. Barnes
PRODUCTS—Retail coal yard supplies, contractors' supplies, structural steel and sheet metal fabricating
Incorporated

SAFETY GAS MAIN STOPPER CO., 523 Atlantic Ave., Brooklyn, N. Y.
Prop.—Patrick Goodman

ST. JOHN DRYDOCK & SHIPBUILDING CO., LTD., East St. John, New Brunswick
Pres.—Jas. Playfair
Vice Pres. and Mgr. Director—D. S. Pratt
Sec. and Treas.—F. W. Grant
Pur. Agt.—H. E. Josselyn
Storekeeper—D. McDonald
Gen. Mgr.—F. M. Ross
Asst. Gen. Mgr.—F. G. Wilson
Mgr. Const.—W H. Milne
Supt.—W. Kaptain
Chief Engr.—R. G. Watson
Chief Draftsman—W. J. Milne
Elec. Engr.—W. W. Vaughan
Foreman Mach.—L. Sweeney
Foreman Repairs—W. Kaptain
Blacksmith—L. Stewart
Foreman Carptenter—W. G. Ellis
Foreman Steel—A. Berrigan
Foreman Painter—W. Segee
Foreman Boilermaker—W. Ganderton
EQUIPMENT—Two drydocks and marine railway, fully equipped plate, boiler machine and woodworking shops
PRODUCTS—Shipbuilding and repairs
Ownership—Private
Capital—$1,000,000

ST. JOSEPH STRUCTURAL STEEL CO., 8th and Atchison Sts., St. Joseph, Mo.
Pres. and Treas.—T. W. Dodd
Vice Pres.—L. M. Hamlet
Sec.—R. E. Riddle
PRODUCTS — Fabricators of structural steel for bridges and buildings
Capacity—6,000 tons annually
Incorporated—$225,000

ST. LOUIS ARCHITECTURAL IRON CO., 1907 DeKalb St., St. Louis, Mo.
Pres. and Treas.—R. E. Moyle
Vice Pres.—A. J. Schachlich
Sec.—R. C. Weber
Struct. Engr.—A. T. Benz
PRODUCTS—Structural steel, gray iron castings, ornamental iron work
Incorporated—$60,000
Railroad—Mo. Pac.

ST. LOUIS BOILER TANK & MACHINE CO., 4245 N. Broadway, St. Louis, Mo.
Pres., Treas. and P. A.—A. F. Luepker
Vice Pres. and Mgr. Const.—A. Birger
Sec., G M. and Supt.—H. E. Luepker
PRODUCTS — Boilers, boiler repairing, stacks, breechings, tanks, steel products
Incorporated—$15,000; issued, $13,200

ST. LOUIS METALWARE CO., 2507 Broadway, St. Louis, Mo.
PRODUCTS—Steel plate work

ST. LOUIS STRUCTURAL STEEL CO 57th St. and B. & O. Tracks, E. St Louis, Ill.
Pres. and Sales Mgr.—W. F. Barnes
Vice Pres.—H. T. Pott
Sec. and Treas.—G. B. Curtis
Asst. Sec. and Asst. Treas.—H. M. Krischer

Pur. Agt.—R. C. Bradshaw
Storekeeper—W. B. Crawford
Supt. Shop—H. T. Moore
Chief Draftsman—J. G. Illingworth
PRODUCTS — Fabricators of structural steel for bridges and buildings
Capacity—600 tons
Incorporated

ST. PAUL FOUNDRY CO., Como Ave. and Mackubin St., St. Paul, Minn.
Pres. and Treas.—C. M. Power
Vice Pres.—J. F. Maher
Sec.—G. I. Ashton
Pur. Agt.—J. H. Gunther
Sales Mgr.—G. E. Cook
Gen. Mgr.—F. S. Power
Supt.—John Allenson
Struct. Engr. and Draftsman—E. A. Goetz
Power Engr.—J. H. Downs
Elec. Engr.—James Bykel
Foreman Mach.—M. Miller
Foreman Struct. Shop—G. V. Guerin
Foreman Fdry.—Pat McGrath
Foreman Blacksmith—Jack Ernster
PRODUCTS—Structural steel for buildings and bridges, special machinery, heavy machinery repairs, gray iron castings, blacksmithing
Capacity—12,000 tons castings, 15,000 tons structural steel
Incorporated—$1,000,000
Railroads—Three side tracks connecting G. N.

SALT LAKE BOILER & SHEET IRON WORKS, 724 Woodbine Ave., Salt Lake City, Utah

SALT LAKE ENGR. WORKS, 547 W. 7th St., Salt Lake City, Utah

SANBORN FURNACE CO., Metheun. Mass.

SANDERS, ROBERT E., Ashland, Wis.
PRODUCTS—Boiler repairs and sheet metal work

SAN FRANCISCO BRIDGE CO., Nevada Bank Bldg., San Francisco, Cal.

SARNELLI & SONS, INC., 2709 W. 17th St., Brooklyn, N. Y.
Pres. and Treas.—Chas. Sarnelli
Vice Pres.—William Sarnelli
Sec.—A. M. Gressler
Blacksmith—M. Squilante
Foreman—John Minikino
PRODUCTS—Structural and ornamental steel
Incorporated—$20,000; issued, $2,000
Railroad—Siding on South Brooklyn R. R.

SCAIFE & SONS CO., WM. B., Oakmont, Pa.
Pres.—J. V. Scaife
Vice Pres. and G. M.—A. M. Scaife
Sec. and Treas.—M. M. Frey, Jr.
Pur. Agt.—H. L. Oberlin
Sales Mgr.—C. H. Frey
Supt.—J. R. Sproat
Chief Engr.—E. G. Duden
PRODUCTS—Tanks for air, gas and liquids, water purifying and filtering apparatus
Incorporated
Capital—$1,000,000
Railroad—Penna.

SCANNELL BOILER WORKS, 24 Tanner St., Lowell, Mass.
Pres.—Barth Scannell
Treas.—Phillip L. Scannell
Pur. Agt.—George P. Scannell
PRODUCTS—Power boilers, tanks and smoke stacks
Incorporated—$100,000
Railroads—N. Y., N. H. & H., B. & M.

SCARR & CO. FRANK, 1042 W. 11th St., Chicago, Ill.
PRODUCTS—Steel fabrication

SCHERF BOILER CO., FRANK, 10th and Cook Sts., Springfield, Ill.
PRODUCTS—Boilers, steel work and repairs

SCHIMPF, GEORGE A., Pottsville, Pa.
PRODUCTS—Boiler repairs and steel work

SCHLICHTER CO., E. F., 10 So. 18th St., Philadelphia, Pa.
PRODUCTS—Steel pate work and tanks

SCHLUTER, INC., C. J., 192-198 Banker St., Brooklyn, N. Y.
Pres. and Treas.—C. J. Schluter
Vice Pres.—Fred Heid
Sec.—A. H. Schluter
Supt.—W. J. Buchanan
EQUIPMENT—10-ft. square shears, ⅜-inch capacity, 36-inch power punches, radial drills, electric welding machines, 5-ft. x 10-ft. rolls, ¼ brake, No. 10 brake, shears, riveting machines and general plate shop equipment
PRODUCTS—Tanks, oil-water pressure, jacket kettles, steel smoke stacks, flues, special construction
Incorporated—$50,000; issued $25,000

SCHMAHL CO., JACOB, THE, 26-30 Lloyd St., Buffalo, N. Y.
Pres., Treas., P. A. and Gen. Mgr.—W. J. Schmahl
Vice Pres.—M. B. Schmahl
Sec.—A. G. Weis
Storekeeper—Charles Schmahl
Power Engr.—Wm. Flor
Foreman Blacksmith—Ernest Dried
PRODUCTS—Sheet metal work up to ¼-inch plate
Incorporated—$40,000

SCHMELING & ALTER, Fort Wayne, Ind.
PRODUCTS—Steel plate work

SCHMIDT IRON WORKS, J .G., 368 Harrison St., Passaic, N. J.
Pres.—W. Hassan
Vice Pres.—M. Swenson

Treas. and Gen. Mgr.—J. Vandermode
Sec.—G. Hassan
Pur. Agt.—J. Van Wyk
Chief Engr.—R. F. Carmichael
Chief Draftsman—Ed. Hefty
Foreman Machinist—Fred Honehwitz
Foremen—Alvin Welyslun and P. Smith
PRODUCTS—Structural steel and ornamental iron
Incorporated—$100,000; issued, $60,000

SCHMOOK, HARRY B., Springfield, Mo.
PRODUCTS—Structural steel and iron work

SCHNEIDER IRON WORKS, D. S., 423 Dorchester Ave., S. Boston, Mass.
Foreman—Samuel Berman
PRODUCTS—Iron and steel for buildings
Capacity—300 tons

SCHNEIDER MACHINERY CO., JOS., 401 School St., Joplin, Mo.
PRODUCTS—Boiler work and machinery

SCHOFIELD'S SONS CO., J. S., Edgewood, cor. Hammond St., Macon, Ga.
PRODUCTS—Boilers and structural steel

SCHRADER IRON WORKS, INC., 1247 Harrison St., San Francisco, Cal.
Pres.—Otto Schrader
Vice Pres.—Otto R. Schrader
Sec.—F. W. Schrader
Struct. Engr.—P. H. Keil
Foreman—R. D. Negley
EQUIPMENT—Structural steel fabricating shop, erection equipment
PRODUCTS—Steel frames for buildings
Capacity—6,000 tons annually
Incorporated

SCHREIBER SONS CO., L., 3869 Ivanhoe St., Cincinnati, O.
PRODUCTS—Structural steel and iron work

SCHROEDER, A. J., Donaldsonville, La.
PRODUCTS—Boiler and tank work and repairs

SCHULTER, INC., C. K., 192 Banker St., Brooklyn, N. Y.
PRODUCTS—Boilers, repairs, etc.

SCHURK IRON WORKS, INC., 5425 Manchester Ave., St. Louis, Mo.
Pres. and Treas.—Henry Schurk
Vice Pres. and Sec.—Wm. B. Schurk
Asst. Sec. and Asst. Treas.—Jos. A. Schurk
PRODUCTS—Structural steel for buildings
Capacity—3,000 tons
Incorporated—$60,000; issued, $31,100

SCHWAB & SONS CO., R. J., 238 Clinton St., Milwaukee, Wis.
Pres.—R. J. Schwab
Vice Pres., Treas. and G. M.—Henry. E. Schwab
Asst. Treas.—Arthur F. Hildebrant
Sec., Pur. Agt. and Supt.—Charles E. Schwab
Storekeeper—Harry Nevdorf
Sales Mgr.—Alfred G. Pomrenning
Chief and Power Engr.—Frank Kroening
Draftsman—Ralph Beauchamp
Foreman Fdry.—Henry Roelke
Foreman Tin Shop—Jake Deutsh
Foreman Pattern Shop—Louis Kroening
Foreman Mach.—Frank Hemmann
EQUIPMENT—Sheet metal, machine and pattern shops, foundry
PRODUCTS—Domestic heating apparatus
Incorporated—$350,000
Railroads—C. & N. W., C. M. & St. P.

SCHWAB LE ZOTTE BOILER CO., 16th and Canal Sts., Milwaukee, Wis.

SCHWARTZ BROS & CO., Cheboygan, Mich.
PRODUCTS—Boilers, etc.

SCHWEIBISH BROS., 512 E. 76th St., New York, N. Y.
PRODUCTS—Structural steel

SCIOTO BOILER WORKS, 37 No. Scioto St., Columbus, O.

SCOLLEY ESTATE, JOHN A., 74 Myrtle Ave., Brooklyn, N. Y.
PRODUCTS—Boiler and tank work

SCOTT CO., T. A., New London, Conn.
PRODUCTS—Structural steel and iron work

SEATTLE BOILER WORKS, 1128 W. 45th St., Seattle, Wash.
Gen. Mgr. and Pur. Agt.—Frank F. Hopkins
Supt. Field Const.—Claude H. Hoffman
Foreman—Wm. Bell
PRODUCTS—Boilers, tanks, structural steel, refuse burners, smoke stacks
Capacity—1,000 tons of steel per month
Ownership—Private

SEEVERS MFG. CO., 602 1st Ave., W. Oskaloosa, Iowa
PRODUCTS—Boilers, tanks, etc.

SEIBEL, SUESDORF COPPER & IRON MFG. CO., 2nd and Lombard St., St. Louis, Mo.
PRODUCTS—Steel plate work

SEILER IRON WORKS, INC., 941 So. Pilgrim St., Stockton, Cal.
Pres.—E. L. Seiler
Vice Pres.—Jos. Geiger
Sec. and Treas.—D. McHugh
Supt.—Wm. Forth
Foreman—Wm. Lecklbusch
PRODUCTS—Structural and ornamental steel
Incorporated
Capital—$50,000

SENECA ENGINEERING CO., Montour Falls, N. Y.
Pres. Sales and Gen. Mgr.—George F. Barton

Vice Pres., Treas. and Pur. Agt.—Earl W. Livings
Supt.—E. T. Kuhs
Supt.—George Backman
PRODUCTS—Structural steel and general contracting
Capacity—300 to 400 tons per month
Incorporated
Railroad—Penna.

SEYBOLD WIRE & IRON WORKS, 215½ So. St. Joseph St., South Bend, Ind.

SHAMRAD BOILER CO., 1007 So. 8th St., St. Joseph, Mo.

SHARKEY BOILER & TANK WORKS, INC., PHILIP J., 2433 W. 18th St., Chicago, Ill.
Pres. and Gen. Mgr.—Philip J. Sharkey
Incorporated—$30,000

SHARPSVILLE BOILER WORKS CO., Sharpsville, Pa.
Pres.—Chas. D. Fagan
Vice Pres. and Treas.—F. W. King
Sec.—Hugh J. Garvey
Sales Mgr.—H. S. Pell
Supt.—T. C. Ehrlich
PRODUCTS—Storage tanks and fittings and gasoline dispensing equipment

SHAW CO., BENJ. F., 2nd and Lombard Sts., Wilmington, Del.
PRODUCTS—Steel tanks

SHAW & CO., L. S., 5716 Euclid Ave., Cleveland, O. Plant: 2316 East 93rd St.
Pres. and Treas.—L. S. Shaw
Vice Pres.—E. D. Shaw
Sec.—R. J. Staley
Storekeeper—V. R. Shaw
Supt.—E. Williams
Foreman Mach.—Alex McDonald
PRODUCTS—Boiler maintenance and betterment

SHEA BOILER WORKS, 1106 Kansas Ave., Memphis, Tenn.

SHEET STEEL PRODUCTS CO., Michigan City, Ind.
Pres.—D. A. Crawford
Vice Pres., Gen. and Sales Mgr.—R. O. Gill
Treas.—O. M. Carry
Sec.—W. F. Nicholson
Storekeeper—J. H. Timm
Supt.—F. A. Voelke
Supt.—R. H. Taylor
Chief Draftsman—V. A. Drout
PRODUCTS Sheet metal products for motor trucks

SHERMAN MACHINE & IRON WORKS, 18-36 E. Main St., Oklahoma, City, Okla.
Supt.—H. W. Frau
PRODUCTS—Cotton cleaners
Incorporated—$100,000

SHEVLIN ENGR. CO., Maspeth, N. Y.
Pur. Agt. and Asst. Engr.—F. Henry
Engr.—Wm. Raisch

SHIPLEY CONSTRUCTION & SUPPLY CO., 42nd St. and 2nd Ave., Brooklyn, N. Y.
Pur. Agt.—J. F. Farish
Elec. Engr.—J. Momass
Erect. Engrs.—John S. Moore and F. W. Spalding

SHIPYARD & FOUNDRY CO., Jeffersonville, Ind.
Pres.—M. A. Sweeny
PRODUCTS—Boilers and Marine work

SHOEMAKER BRIDGE CO., Pottstown, Pa.
Pres. and Treas.—Lewis F. Shoemaker
Vice Pres., Asst. Treas. and Gen. Mgr.—Joseph H. Fichthorn
Mgr. Sales—L. D. Rights
Sec.—Thomas C. Satterthwait
Asst. Sec.—B. Amrein
Pur. Agt.—John McCabe
Supt.—Ralph W. Bacon
Chief Engr.—Stacey H. Widdecomb
Chief Draftsman—Clyde Yeakel
M. M.—Joseph Haines
Elec. Engr.—Howard Houck
PRODUCTS—Structural steel, bridges and buildings
Incorporated
Railroads—Penna., Reading

SHREVEPORT BLOW PIPE & SHEET IRON WORKS, 309 Spring St., Shreveport, La.

SIBBITT IRON & FOUNDRY CO., BEN, 217 Moore Ave., Wichita, Kan.
Pres.—Benj. J. Sibbitt
Vice Pres.—W. S. Henrion
Vice Pres.—A. E. Schumacher
Sec. and Treas.—Charles Sibbitt
Struct. Engr.—Charles E. Vile
Foreman Mach.—Robert Weldon
PRODUCTS—Structural Steel
Railroads—A. T. S. Fe., C. R. I. & P.

SIMMONS' SONS, H. C., Main St., No. Bennington, Vt.
Partners—M. B. Simmons, W. M. Simmons, F. M. Simmons
PRODUCTS—Manufacture of low pressure tubular heating boilers and their installation
Capacity—400
Partnership

SIMPLES BOILER STAND CO., 220 Hall St., Brooklyn, N. Y.

SIMPSON BROTHERS, Oakdale, Pa.
PRODUCTS—Steel plate work, boiler repairs, etc.

SIMPSON, EUGENE A., 88 Broad St., Boston, Mass.
PRODUCTS—Structural steel fabricating and builders, iron work
Capacity—4,000 tons a year

SIMPSON CO., RALPH H., 130 West Austin Ave., Chicago, Ill.
Pres.—Ralph H. Simpson
Treas.—C. P. Clark
Sec. and Pur. Agt.—George W. Dreher
Supt.—J. Zahrobsky
PRODUCTS—Structural steel and ornamental iron and steel work
Incorporated

SIMPSON, ROBERT, 220 Russell St., Brooklyn, N. Y.
PRODUCTS—Boilers, tanks, etc.

SIMS CO., THE, 18th and Whitley Ave., P. O. Box 700, Erie, Pa.
Pres.—Henry Sims
Treas.—Harry Sims
Sec.—Geo. A. Sims
Pur. Agt.—Charles Yartz
Sales Mgr.—Harry W. Sims
Supt. Machine Shop—O. E. Rooney
Supt. Foundry—Frank Berchtold
PRODUCTS—Building of power plant equipment, feed water heaters, etc.
Incorporated
Railroads—Nickel Plate siding, access to Nickel Plate; N. Y. C. and Penna.

SIMS & GRAY IRON WORKS, 550 Bryant St., San Francisco, Cal.
Sec.—B. Venaber
Pur. Agt., Gen. and Sales Mgr.—John R. Sims
Mgr. Const. and Foreman—Wm. Herzog
Supt.—Chas. E. Gray
Mech. and Struct. Engr.—John F. Sims
PRODUCTS—Structural steel, miscellaneous and ornamental iron
Partnership

SINKER DAVIS CO., THE, Indianapolis, Ind.
Pres.—J. H. Hooker
Treas. and Sec.—H. W. Bliss
Pur. Agt.—F. A. Pearson
Storekeeper—Chas. Busking
Sales Mgr.—John Cooper
Supt.—H. W. Bliss
Chief Draftsman—John Hinden
Foreman Mach.—John McLeod
Blacksmith—Chas. Kuehn
Foreman Boiler Shop—Roy Suliff
PRODUCTS—Saw mill machinery, engines, boilers, general machinist
Incorporated

SIOUX CITY FDRY. & BOILER CO., 8th, cor. Division St., Sioux City, Ia.
Pres.—Herman Galinsky
Treas. and Sales Mgr.—J. Kalin
Sec., Pur. Agt. and Gen. Mgr.—A. J. Galinsky
PRODUCTS—Norfolk all cast iron warm air furnace, boiler repairing, tanks, smoke stacks, breechings, foundry and general steel work
Railroads—G. N., spur track, C. & N. W., C. M. & St. P., I. C., C. B. & Q.

SIPP MACHINE CO., Keen, Warren & Erie R. R., Paterson, N. J.

SISTERSVILLE TANK & BOILER WORKS, Sistersville, W. Va.
Pres.—W. L. Sutton
Vice Pres.—J. W. Cushing
Vice Pres.—W. J. McCoy
Treas. and Sec.—W. O. Harrington
Gen. Mgr.—H. T. Silver
PRODUCTS—Tanks, boilers and general steel plate construction
Railroad—B. & O., Ohio river shipments

SKINNER & ARNOLD MACHINE CO., INC., 73 Herkimer St., Albany, N. Y.
Pres.—Geo. H. Stevenson
Vice Pres.—Henry Ochse
Treas.—Edward J. O'Connell
EQUIPMENT—Machine shop
PRODUCTS—Repair work, steam engine construction on order
Incorporated—$20,000; issued, $15,000
Railroads—N. Y. C. & H. R. R., D. & H., boat

SKOBIS CO., 617 Cedar St., Milwaukee, Wis.
PRODUCTS—Structural steel and iron

SMART HEATING CO., 839 E. Estival Place, Memphis, Tenn.

SMITH, ARTHUR E., 220 Park Ave., Plainfield, N. J.
PRODUCTS—Structural steel and iron work

SMITH IRON WORKS, A. L., 217 Everett Ave., Chelsea, Mass.
Pres. and Treas.—Arthur L. Smith
Vice Pres.—Hiram A. Lerner
Sec.—Moseley M. Rowe
Pur. Agt.—Henry Bloom
Chief Engr.—Harold R. Winter
PRODUCTS—Structural steel and ornamental iron
Incorporated—$450,000

SMITH CO., THE H. B., 57 Main St., Westfield, Mass.
PRODUCTS—Boilers, repairs and steel work

SMITH CO., H. B., 1108 Webster Ave., Cleveland, O.
PRODUCTS—Boilers, repairs, etc.

SMITH & SON, SAMUEL, 150 Railroad Ave., Paterson, N. J.
Pres. and Treas.—Charles R. Smith
Vice Pres.—Henry J. Hewat
Sec.—Warren R. Smith
Incorporated
PRODUCTS—Boiler repairs, steel plate and sheet metal work
Railroads—Erie, D. L. & W.

SMITH CO., THE T. L., 1125 32nd St., Milwaukee, Wis.
Pres.—Harold E. Smith
1st Vice Pres.—Irving R. Smith
2nd Vice Pres.—Charles F. Smith
Sec. and Treas.—Herman F. Guenther
Asst. Sec.—Louis Charles

Pur. Agt.—Lester C. Sholes
Sales Mgr.—Reuben Bowen
Supt.—Walter Mickelson
Chief Engr.—A. W. Rybeck
Power and Elec. Engr.—Harry O'Neil
Foreman Mach.—Wm. Koch
Foreman Repairs—Ray Krueger
Blacksmith—A. Ludwig
EQUIPMENT—Machine shop, foundry, structural shop, pattern shop
PRODUCTS—Manufacturers concrete mixing machinery, gray iron and semi-steel castings
Capacity—$2,000,000
Incorporated—$1,250,000; issued, $594,700
Railroad—C. M. & St. P.

SMITH & CAFFREY CO., Lodi and Bear Sts., Syracuse, N. Y.
Pres. and Treas.—Wm. Blackwood Smith
Vice Pres.—James S. Caffrey
Sec. and Pur. Agt.—David C. Park
Struct. Engr.—Frank B. Floyd
Chief Draftsman—Charles Murphy
PRODUCTS—Structural steel, ornamental iron work
Capacity—500 tons per month
Incorporated—$200,000
Railroads—N. Y. C., West Shore, D. L. & W.

SMITH, NIMMO & CO., McKeesport, Pa.
Prop. and Pur. Agt.—Roy C. Price
PRODUCTS—Ornamental iron work

SMOCK CO., HOWARD, 439 Massachusetts Ave., Indianapolis, Ind.
PRODUCTS—Boilers, repairs, steel tank work

SNEAD ARCHITECTURAL IRON WKS., Louisville, Ky.

SNOW CO., I. L., 79 Mechanic, Rockland, Me.
Pres. and G. M.—Israel Snow, Sr.
Vice Pres.—John I. Snow
Treas.—R. K. Snow
Pur. Agt.—C. S. Montgomery
Supt.—Robt. A. Snow
Foreman Mach.—M. R. Snow
EQUIPMENT—Machine and boiler shops, mill, marine railway and shipyard store, etc.
Incorporated—$200,000
Railroads—Maine C. R. R., Eastern S. S. Lines

SODEMANN HEAT & POWER CO., 2300 Morgan St., St. Louis, Mo.
Pres. and Mgr. Const.—Wm. Sodemann
Vice Pres.—Thomas Nansen
Treas. and Sec.—Waldemar Pinckert
PRODUCTS—Heating and ventilating apparatus, radiator shields

SOTTER BROTHERS CO., Pottstown, Pa.
Pres., Gen. and Sales Mgr.—H. M. Lessig
Vice Pres.—Philip Sotter
Treas.—Fred Sotter
Sec.—I. W. Riegner
Asst. Sec.—H. A. Neide
Pur. Agt.—Robert Flam
Supt. of Shop—John F. Jackson
Chief Draftsman—Robert Flam
Elec. Engr.—Richard Duden
Foreman Mach.—J. Geo. Sotter
EQUIPMENT—Hydraulic riveters, hydraulic press, rolls, planers, fully equipped machine shop and plate fabricating shop, with electric welding equipment
PRODUCTS—Tanks, boilers, stacks and all types of plate fabricated work
Capacity—300 to 350 tons per month
Incorporated—$300,000; issued, $215,500
Railroads—Penna. siding and Reading Co. siding

SOUTH BEND BOILER WORKS, South Bend, Ind.

SOUTH SIDE FDRY. & MACHINE WORKS, P. O. Box 865, Charleston, W. Va.
Pres., Treas., Pur. Agt., Sales and Gen. Mgr.—G. T. Thayer
Sec.—G. T. Thayer, Jr.
PRODUCTS—Sheet metal, machinist work, founders, principally equipment for coal mines
Incorporated—$100,000

SOUTHERN BOILER WORKS, 215 W. Adams St., Belleville, Ill.
Owner—John Isselhardt
Asst. Gen. Mgr.—John Isselhardt, Jr.
PRODUCTS—Manufacturers of boilers, stacks, tanks
Railroads—L. & N., I. C., Southern

SOUTHERN BOILER & TANK WORKS, Box 143, Memphis, Tenn.
G. M. and Chief Draftsman—T. S. Stanton
Foreman Mach.—R. A. Gifford
EQUIPMENT—For boiler shop and plate work
PRODUCTS—Anything made of steel, structural and plate
Partnership

SOUTHERN ENGINE & BOILER CO., Jackson, Tenn.
Pres.—Howard W. Dow

SOUTHWESTERN WRECKING CO., 506 San Francisco St., El Paso, Tex.

SPEDDEN SHIPBUILDING CO., Boston and Kenwood Ave., Baltimore, Md.

SPEIR BROTHERS, Fort Neck, New London, Conn.
PRODUCTS—Boilers, tanks

SPENCER HEATER CO., Ft. Park St., Williamsport, Pa.
Pres. and G. M.—Chas. N. Tull
Treas.—H. V. Beach
Asst. Treas.—F. W. Earnest
Pur Agt.—J. E. Dunbar
Sales Mgr.—S. J. MacMullan
Chief and Mech. Engr.—M. C. Gillett

PRODUCTS—Spencer magazine feed heaters
Railroads—Penna. and Reading sidings

SPIRAL BOILER & RADIATOR CO., 998 Raymond Ave., St. Paul, Minn.

SPRENGER & SONS, JOSEPH, 1186 W. Jefferson St., Detroit, Mich.
PRODUCTS—Steel plate work

SPOKANE CULVERT & TANK CO., North End Division Street Bridge, Spokane, Wash.
Pres.—E. E. Placek
Vice Pres., G. M. and P. A.—C. A. Mowry
Asst. Sec.—M. Hanifen
Chief Engr.—A. P. Mowry
PRODUCTS—Galvanized corrugated metal products
Incorporated—$20,000
Railroads—Five transcontinental roads

SPRINGFIELD BOILER CO., 1901 E. Capitol Ave., Springfield, Ill.
Pres., Treas. and Pur. Agt.—Owsley Brown
Vice Pres. and Mgr. Sales—J. S. Hammerslough
Sec.—H. H. Dickerman
Supt.—R. F. Potter
Chief Engr.—H. J. E. Banck
Chief Draftsman—W. A. Bourland
PRODUCTS—Water tube sectional power boilers
Incorporated—$250,000
Railroads—B. & O., C. & A., Wabash, Ill. Cent.

SPUCK IRON & FOUNDRY CO., 3145 North 14th St., or cor. 14th and Branch St., St. Louis, Mo.
Chairman—Wm. A. Block
Pres.—E. C. Hanpeter
Vice Pres.—Chas. A. Block
Sec. and Treas.—Henry W. Becker
Gen. Mgr.—John H. Gorsche
Chief Draftsman—Fred A. Meyer
PRODUCTS—Structural, ornamental and cast iron
Capital—$25,000; surplus $183,834.61

STACEY BROS. GAS CONSTRUCTION CO., Station P, Elmwood, Cincinnati, O.
Pres.—James E. Stacey
Vice Pres.—Andrew J. Stacey
Treas. and Sec.—A. L. Pope
Pur. Agt.—Evan T. Davies
Sales Mgr.—Wayne Stacey
Mgr. Const.—R. S. Osborne
Supt.—James J. Taylor
Chief Engr.—Wm. A. Miller
PRODUCTS—Gas holders and steel tanks
Capacity—15,000 tons per year
Incorporated—$400,000

STACEY MFG. CO., THE, Cincinnati, O.
Pres. and Gen. Mgr.—J. Frank Stacey
Vice Pres.—Thomas C. Ranshaw
Sec. and Treas.—Edw. J. Baechle
Pur. Agt.—Edward H. Cordes
Sales Mgr.—Geo. H. Cressler
Supt.—Albert Kohl
Chief Engr.—Frank O. Pandorf
Draftsman—E. C. Kelly
Sales Engrs.—W. D. Birbeck and A. E. Harvey
Power and Elec. Engr.—Charles Menke
Foreman Mach.—Francis P. Britt
PRODUCTS—Gas holders, steel tanks, plate and structural steel work, cast iron work
Capacity—40,000,000 lbs. annually
Incorporated—$750,000
Railroads—C. C. C. & St. L., Penna., B. & O., N. & W.

STAFFORD IRON WORKS, 331 Canal St., Worcester, Mass.
Pres. and Treas.—W. M. Peaston
Vice Pres.—C. Lockwood
Sec. and Supt.—A. Johnston
Supt.—C. Lockwood
PRODUCTS—Ornamental iron jobbing
Incorporated

STAMFORD IRON WORKS, 331 Canal St., Stamford, Conn.
PRODUCTS—Steel tanks, boilers

STANDARD BOILER WORKS, 36 W. Commercial St., Seattle, Wash.

STANDARD BOILER WORKS, (Mader Bros & Co.), 12th and Buttonwood St., Lebanon, Pa.
Treas.—D. O. Mader
Supt.—J. F. Border
PRODUCTS—Platework, buoys, stacks, flues, etc.
Partnership
Railroads—Penna. and Reading

STANDARD BOILER & PLATE IRON CO., THE, Niles, O.
Pres. and Treas.—D. J. Finney
Vice Pres., Sec. and G. M.—C. W. Finney
Asst. Gen. Mgr.—G. R. Gilbert
Supt.—G. F. Pendleberry
PRODUCTS—Tanks, refinery equipment and steel plate construction
Capacity—1,200 to 1,500 tons monthly
Incorporated—$100,000
Railroads—B. & O., Erie, Penna.

STANDARD BOILER & STEEL WORKS, 5001 Boyle Ave., Los Angeles, Cal.
Pres.—Rasmus H. Andersen
Vice Pres.—G. J. Kuhrts
Treas., Sec., P. A. and G. M.—Geo. J. Kuhrts, Jr.
Storekeeper—Fred Lungren
Supt.—Chris Andersen
Foreman Mach.—L. S. Kronheimer
Blacksmith—A. Bastian
EQUIPMENT—Boiler and plate shop, blacksmith shop, boiler repair shop, machine shop
Capacity—500 tons per month
Railroads—Ship on the Los Angeles Junction Railway; no switching charge to any trunk lines

STANDARD BRIDGE CO., 1302 City Nat. Bank Bldg., Omaha, Neb.

STANDARD HEATER CO., 240 West St., Williamsport, Pa.

STANDARD MACHINE CO., 311 Fifth Ave., So. Nashville, Tenn.

STANDARD METAL PRODUCTS CO., 558 Bryant St., San Francisco, Cal.
PRODUCTS—Steel plate work

STANDARD SHEET METAL MFG. CO., Washington, Pa.

STANDARD SHEET METAL WORKS, 1405 30th St., Milwaukee, Wis.
Vice Pres.—John G. Mattes
Vice Pres.—Jos. J. Mattes
Treas.—Jacob Schoffner
Sec.—Edw. J. Speller
PRODUCT—Portable buildings

STANDARD STEEL & IRON WORKS, 6 Mechanic St., Boston, Mass. Affiliated with Stanwood Corp., Covington, Ky.

STANDARD WATER SYSTEMS OF N. J., Hampton, N. J.
Pres.—E. R. Burlingham
Vice Pres. and Gen. Mgr.—G. A. Bogart
Treas. and Sec.—H. R. Coyle
Pur. Agt.—E. D. Bigelow
Chief Engr.—J. A. MacLean
EQUIPMENT—Boiler, machine, carpenter shops and foundry
PRODUCTS—Power plant auxiliaries
Capacity—$500,000 annually
Incorporated
Railroads—C. R. R. of N. J., D. L. & W.

STAR IRON & STEEL CO., 435 E. 11th St., Tacoma, Wash.
Pres., Treas. and G. M.—R. N. Allen
Vice Pres.—George D. Newbegin
Sec.—Stuart Bryan
Office Mgr.—W. C. Johnson
Supt.—C. M. Styer
Struct. Engr.—L. E. Jensen
Draftsman—A. B. Burke
Mech. Engr.—A. Gordon May
Foreman Steel Fabricating Shop—J. R. Ferguson
Foreman Mach.—E. T. Hopkins
Foreman Blacksmith—Fred Wieland
EQUIPMENT—Forge shop, structural steel fabricating and machine shops, field constructing crews
PRODUCTS — Forgings and blacksmith work, structural steel fabricators, machinists, engineers, contractors, manufacturers, Brute electric hammerhead lumber-handling cranes, logging cars, etc.
Incorporated—$100,000
Railroads—No. Pac., spur track; C. M. & St. P., G. N., U. P.

STAR IRON WORKS, 205 Second Ave., Marietta, O.
PRODUCTS—Steel plate and sheet metal work, boiler repairs

STAR IRON WORKS, 2350 E. 76th St., Cleveland, O.

STAR MACHINERY CO., 1741 1st Ave., So. Seattle, Wash. Plant: 207 Horton St.
Pres.—C. Rabel
Vice Pres. and Sales Mgr.—V. E. Rabel
Asst. Sec.—Martin Taylor
Pur. Agt.—L. Z Evans
Supt.—H. M. Belles
Power Engr.—W. A. Farris
Foreman Mach.—H. M. Belles
EQUIPMENT—Machine shop and yards, 5 acres, office and showrooms on sales floors, 40,000 sq. feet
PRODUCTS—Machinery merchants and manufacturers
Incorporated—$200,000; issued, $100,000
Railroads—S. N., C. M. & St. P.

STAR ORNAMENTAL IRON & WIRE CO., 2319 Forbes St., Pittsburgh, Pa.
Mgr.—Hyman Blum

STAR TANK CO., North Cottage Ave., Goshen, Ind.
Prop. and Gen. Mgr.—Arthur E. Schrock
Foreman—Fred Schwek
PRODUCTS—Manufacturers steel tanks, boats, bins and cribs

STARK & CO., N. M., 1215 Mulberry St., Des Moines, Iowa
PRODUCTS—Structural steel work

STATEN ISLAND SHIPBUILDING CO., 3075 Richmond Terrace, Mariners Harbor, Staten Island, N. Y.
Pres.—Wm. J. Davidson
Vice Pres.—John Tracy
Vice Pres.—James T. Davidson
Treas. and Sec.—George H. Bates
Pur. Agt.—Robert C. Miller
Storekeeper—Frank Adams
Supt. Hull Const., Mach.—J. Nelson
Chief Engr.—A. C. Leaverton
EQUIPMENT—Six floating dry docks, capacity up to 10,000 tons; machine and boiler shop, heavy machinery, iron and brass foundries
PRODUCTS—Shipbuilding and repairing, engine and boiler repairing, tank work, iron and brass castings, etc.
Incorporated
Railroad—B. & O. siding, free lighterage connection with all roads entering New York

STATOM BOILER WORKS CO., INC., 7th St. and Glen Addie Ave., Anniston, Ala.
Pres. and G. M.—W. B. Statom
Treas.—M. L. Statom
Asst. Treas.—A. F. Moyer
Incorporated
100 shares at $100

STEACY SCHMIDT MFG. CO., Arch St., York, Pa.
Pres.—H. W. Hardinge
Vice Pres. and Gen. Mgr.—H. Hardinge
Vice Pres., Treas. and Wks. Mgr.—J. J. Cadot
Asst. Treas.—R. S. Schmidt

Sec. and Sales Mgr.—F. E. Finch
Pur. Agt.—A. E. Horton
Storekeeper—T. Williams
Supt.—F. V. Moore
Chief, Mech. Engr. and Draftsman—W. Glomb
Foreman Mach.—D. Helm
Foreman Repairs—J. Reever
Foreman Fdry.—Wm. Sloan
Foreman Plate Shop—Gus Klann
Foreman Pattern Shop—Ed. Miller
EQUIPMENT—Large tools in machine shop, plate shop, pattern shop and foundry
PRODUCTS—Fairly heavy castings, machine and plate work
Incorporated—$150,000
Railroads—Penna., West. Md.

STEBBINS & SONS, WALLACE, 100 So. Charles St., Baltimore, Md.
PRODUCTS—Steel plate work

STEEL PLATE PRODUCTS CO., P. O. Box 46, Pottstown, Pa.
Pres.—S. R. Morris
Vice Pres.—Newton Kline
Sec. and Treas.—James Morris
Gen. Mgr. and C. E.—Walter L. Merkel
PRODUCTS—Steel tanks, steel stacks, miscellaneous heavy plate work
Incorporated—$50,000; issued, $35,500
Railroads—Penna. and Reading

STEEL PRODUCTS CO., Savannah, Ga.
PRODUCTS—Structural steel and iron work

STEEL TANK & PIPE CO. OF CAL., THE, 1100 Fourth St., Berkeley, Cal.
Pres.—George J. Presley
Vice Pres. and C. E.—C. H. Ramsden
Sec. and Treas.—W. F. Focha
Pur. Agt.—H. A. Reynolds
Storekeeper—E. A. Miller
Gen. Mgr.—Horace Pomeroy
Asst. Gen. Mgr.—George H. Raitt
Supt.—A. W. Sponseller
Chief Draftsman—John Brooks
PRODUCTS—Steel plate fabricating
Incorporated—$350,000; issued, $317,000

STEEL TANK & PIPE CO. OF OREGON, THE, Columbia Blvd. and Union Ave., Portland, Ore.
Pres.—T. L. Hanning
Vice Pres.—G. C. Dierking
Treas.—H. C. Pomeroy
Asst. Treas.—J. L. Stevenson
Sec. and G. M.—R. T. Wetteland
P. A. and Asst. Sec.—L. M. Pickett
Storekeeper—C R. Bolland
Mgr. Const.—G. C. Dierking
Supt.—W. V. Cryderman
Chief Draftsman—W. E. Love
Elec. Engr., Foreman Repairs—E. L. Johnson
PRODUCTS—Hot water heating boilers, steam heating boilers, plate steel construction, tanks, pipe, etc.
Incorporated—$200,000
Railroads—O. W. R. & N.

STEEL TANK & PRODUCTS CORP., 4650 Iowa St., Chicago, Ill. Plant: Dearborn and Trasks Sts., Aurora, Ill.
Pres.—S. A. Pope
Treas.—Wm. A. Pope
Sec.—F. B. Smith
Gen. Mgr.—Clyde L. Savage
Supt. Shops—H. F. Nanzer
PRODUCTS—Tanks of all kinds and water heating garbage burners
Capacity—5,000 tons per year
Incorporated
Railroads—C. B. & O., C. & N. W., C. M. & St. P., E. J. & E.

STEELE & WIKE CO., 533 No. 13th St., Philadelphia, Pa.
PRODUCTS—Structural steel and iron work

STENDER CO., FRANK C., 86 Weybosset St., Providence, R. I. Plant: 139 Rhodes St.
EQUIPMENT—Lighters, scows, towboat, tools, etc.; Federal trucks
PRODUCTS—Dock and bridge builders

STERLING STRUCTURAL STEEL CO., Lyndon Ave. and Meyers Road, Detroit, Mich.
Pres.—Clarence D. Sterling
PRODUCTS—Structural steel fabricators
Capacity—200 tons per month
Railroad—Our siding on Union Belt Ry.

STERN FDRY. & MACHINERY CO., 1630 Annunciation St., New Orleans, La.
PRODUCTS—Steel plate work, castings and machinery

STEVENS MACHINE SHOPS, Winooski, Vt.
Gen. Mgr.—George D. McBride
PRODUCTS—Machine and foundry work
Capacity—50 men

STEWART IRON WORKS CO., 17th and Madison Ave., Covington, Ky.
Pres.—R. C. Stewart
Asst. to Pres. and Pur. Agt.—E. M. Ries
Vice Pres.—Robert S. Stewart
Treas.—C. A. Aplin
Sec.—W. S. Rich
Supt. Sales Agencies—W. S. Kyle
Miscellaneous Iron Work—L. F. Wilmhoff
Gen. Supt.—C. T. Stewart
Incorporated—$1,000,000
Railroads—C. & O., L. & N. switch

STEWART & SON, C., Albany St., Worcester, Mass.
Supt.—J. W. Brown
Chief Draftsman—H. G. Monroe
Mech. Engr.—H. R. Stewart
PRODUCTS—Boilers, tanks, stacks, penstocks, smoke pipes, plate work
Partnership
Railroads—Spur track on Boston and Albany R. R.

STOCKTON IRON WORKS, Lindsay and Harrison Sts., Stockton, Cal.

PRODUCTS—Structural steel, iron work, boilers

STOEHLE MACH. & SUPPLY CO., Black Hawk, Col.
PRODUCTS—Boilers, machinery and supplies

STOLTZ & SON, INC., JOSEPH, West 170th St. and E. Harlem River, New York, N. Y.: Highbridge Station
Pres.—Joseph Stoltz
Treas.—N. S. Jerome
Sec. and Pur. Agt.—William J. Stoltz
Struct. Engr. and Draftsman—Adolph Kurras
EQUIPMENT—Forging hammers, punch presses, plate bending rolls, machine shop
PRODUCTS—Structural steel and ornametal iron work, forgings

STRADWITZ & SCOTT, 537 So. 2nd St., Camden, N. J.
PRODUCTS—Steel plate work

STREATOR BOILER WORKS, 115-117 S. Sterling St., Streator, Ill.
Pres.—A. J. Groene
Treas.—Audrey Coulson
Foreman Mach. and Repairs—Tom Bakaler
PRODUCTS—Manufacturers of stacks, boilers, repair work
Incorporated—$25,000
Railroad—Wabash

STROBEL STEEL CONSTRUCTION CO., 53 W. Jackson Blvd., Chicago, Ill.
Pres.—E. Haupt
Vice Pres.—C. W. Haupt
Sec.—A. M. Jones
Supt.—T. P. Inglesby
EQUIPMENT—R. R. equipment for erection derricks, engines, etc.
PRODUCTS—Bridge building, structural steel, bascule bridges
Incorporated

STRUCTURAL STEEL & FOUNDRY CO., 545 W. 7th St., South, Salt Lake City, Utah
Pres. and Gen. Mgr.—Simon Rosenblatt
Vice Pres. Sales and Sec.—P. A. Mattingly
Treas.—M. S. Rosenblatt
Engr.—Thos. A. Anderson
EQUIPMENT—Complete boiler and structural shop, foundry iron and steel
Capacity—100 tons per month
Railroads—Un. Pac. System and Denver & Rio Grande

STRUTHERS, WELLS CO., 1009 Pennsylvania Ave., Warren, Pa.
Pres. and Gen. Mgr.—J. T. Dillon
Treas. and Asst. Sec.—R. C. White
Sec.—R. S. Hall
Pur. Agt.—L. J. Stuart
Storekeeper—John Guild
Sales Mgr.—P. F. McEvoy
Works Mgr.—T. C. Schuyler
Chief Engr.—L. H. Burkhart
Chief Draftsman—F. A. Keller
M. M.—Ivan Johnson
Elec. Engr.—C. Wolstencroft
Foreman Mach.—H. J. Dillemuth
Foreman Blacksmith—Wm. Shearer
Foreman B. F.—Fred Gebhardt
Foreman Fdry.—George Hessler
PRODUCTS—Riveted and welded steel plate specialists, foundry and machine shop, general work
Capacity—350 to 400 men
Incorporated—$1,800,000
Railroads—N. Y. C., Penna.

STUPP BROS. BRIDGE & IRON CO., Syndicate Trust Bldg. Plant: Weber Rd. and Mo. Pac. Tracks, St. Louis, Mo.
Pres.—E. P. Stupp
Vice Pres.—J. W. Thomsen
Treas.—N. J. Stupp
Sec.—Julius Stupp
Asst. Sec.—H. S. Bassett
Supt.—M. Hunthausen
PRODUCTS—Fabricating structural steel
Capacity—1,500 tons per month
Incorporated

SUBMARINE BOAT CO., Newark, N. J.

SUMNER IRON WORKS, 41st and Cascade St., Everett, Wash.
Pres.—F. W. Sumner
Vice Pres., Gen. and Sales Mgr.—T. B. Sumner
Treas.—M. S. Mitchell
Sec. and Pur. Agt.—F. F. Sumner
Storekeeper—Frank Dafoe
Works Mgr.—George B. Sumner
Gen. Foreman—John Stelling
Chief Engr.—P. F. Lueth
Mech. Engr.—George Dorman
Foreman Repairs—O. A. Olson
Foreman Blacksmith—Evans Harmon
Foreman Pattern Shop—Vern Billings
Foreman Fdry.—Gilbert Soley
Foreman Boilers—Wm. Funke
EQUIPMENT—Boiler and blacksmith, foundry (iron, steel and brass); machine shop, pattern shop, carpenter shop
PRODUCTS—Boilers, tanks, saw and shingle mill machinery
Capacity—$1,000,000 per year
Incorporated—$250,000; issued, $222,800
Railroads—G. N., N. P., C. M. & St. P.

SUN SHIPBULDING & DRY DOCK CO., Foot of Morton Ave., Chester, Pa.
Chairman—J. N. Pew, Jr.
Pres.—John G. Pew
Vice Pres. Sales—Robert Haig
Vice Pres. and Gen. Mgr.—R. L. Burke
Treas. and Sec.—William Craemer
Pur. Agt.—H. W. Scott
Chief Engr.—A. A. Howitz
Naval Architect—J. W. Hudson
Elec. Engr.—T. M. Jackson
PRODUCTS—Ship building, ship repairs, dry dock, Sun-Doxford Diesel engines, boilers, castings, machinery
Incorporated—$3,500,000
Railroads—Reading, Penna., water shipments

SUPERIOR BODY CORP., 18th and Branson St., Marion, Ind.
Pres. and Gen. Mgr.—Ed. Walsh
Vice Pres.—A. G. Messick
Vice Pres.—R. J. Spencer, Jr.
Treas.—H. E. Sellers
Sec., Pur. Agt. and Asst. Gen. Mgr.—J. B. Sisson
Supt.—W. Sanders
Chief Engr.—B. Meredith
PRODUCTS—Steel dump bodies
Capacity—1 yard, 1⅛, 1¼, 1½, 1¾, 2, 4, 8 and 12
Incorporated — $144,000; bonds issued, $50,000
Railroads—Penna., C. & O., N. K. P., Big Four, Junction

SUPERIOR MACHINE & BOILER WKS., 840-850 W. Superior St., Chicago, Ill.
Pres. and Treas.—P. Weiler
Vice Pres. and Sec.—F. C. Dresmal
PRODUCTS—Boilers, repairs and machine work

SURFACE COMBUSTION CO., 366 Gerard Ave., Bronx, New York, N. Y. Plant: 2288 Albion St., Toledo, O. Formerly Improved Appliance Co.
Pres.—Henry A. Loebell
Vice Pres.—Frank H. Adams
Vice Pres.—Forrest W. Manker
Sec.—E. M. Doig
P. A.—M. Goodman
EQUIPMENT—Plate and boiler, machine and pattern shops, foundry
PRODUCTS—Special machinery for iron and steel mills
Incorporated
Railroads—B. & O., Penna., W. & L. E.

(At Toledo, O.)
Chief Engr.—E. W. Weaver
Chief Draftsman—F. R. Colby
Supt.—H. C. Hickenlooper
Supt.—A. M. Degner
PRODUCTS—Boiler and blast furnace stove burners, automatic furnace appliances, industrial furnaces for steel, wire, galvanizing and enameling plants

SYKES CO., THE, 2300 W. 58th St., Chicago, Ill.
Pres. and Treas.—A. L. Sykes
Vice Pres.—J. H. Rowley
Sec.—R. R. Sykes
Gen. Mgr.—H. M. Browne
Pur. Agt.—E. C. English
Supt.—C. H. Lithgow
PRODUCTS—Fabricated steel products
Incorporated—$200,000
Railroads—B. & O., Penna.

T

TACOMA STEEL BOILER WORKS, 1121 Dock St., Tacoma, Wash.

TAMPA SHIPBUILDING & ENG. CO., Foot So. Water St., Tampa, Fla.
PRODUCTS—Marine work and boiler repairs

TASHENBERG BROS., 43 Illinois St., Buffalo, N. Y.
PRODUCTS—Boilers, steel plate and sheet work

TAUNTON BOILER WORKS, 12 Stanley St., Taunton, Mass.

TAYLOR & FICHTER STEEL CONSTRUCTION CO., 132 W. 42nd St., New York, N. Y.

TAYLOR IRON WORKS & SUPPLY CO., Macon, Ga.
Pres.—W. A. Taylor
Vice Pres.—C. A. McAlister
Sec. and Treas.—F. E. Adams
Pur. Agt.—J. W. Fulghum
Chief Engr.—W. P. Fleming
Foreman Mach.—H. R. Mason
Foreman Boiler Shop—J. W. Boland
PRODUCTS—Machine shop, foundry, boiler shop and structural shop
Incorporated—$100,000
Railroad—480-ft. side track

TEACHOUT, H. E., 37th and Erie R. R., Cleveland, O.
PRODUCTS—Boilers, tank work, etc.

TENNESSEE METAL CULVERT CO., 85 Arcade, Nashville, Tenn. Plant: West Nashville, Tenn.
Pres.—H. B. Anderson
Vice Pres. and Supt.—M. D. Holmes
Treas. and Sec.—L. G. Boxwell
Sales Mgr.—Ed. D. Turner
PRODUCTS—Corrugated metal culverts, light gauge tanks
Incorporated—$25,000

TERRE HAUTE BOILER WKS. CO., 12th at Crawford St., Terre Haute, Ind.
Pres.—W. H. Cliff
Sec. and Pur. Agt.—W. C. Kayser
Supt.—Geo. Ford
Chief Draftsman—Lester Glenn
PRODUCTS—Boilers, tanks, stacks, structurals, sheet iron and plate construction
Incorporated

TEXAS BOILER & TANK CO., 601 North St., Fort Worth, Tex.
Pres.—Jno. S. Burrows
Vice Pres.—Mrs. Jno. S. Burrows
Treas.—Leslie R. Burrows
Supt.—Geo. E. Zaner
PRODUCTS—Boiler, tank and general sheet iron and plate work
Incorporated—$30,000
Railroad—T. & P., private track

TEXAS BRIDGE CO., Weatherford, Tex.

TEXAS TANK & CULVERT CO., So. Boaz and E. Front Sts., Fort Worth, Tex.

THAMES MARINE RY. & SHIPYARD, No. of Riverside Park, New Haven, Conn.
PRODUCTS—Shipbuilding and repairs, boiler work

THIBODAUX BOILER WORKS, Thibodaux, La.

THOMASVILLE IRON WORKS, Thomasville, Ga.
PRODUCTS—General steel work and boiler repairs

THOMPSON MFG. CO., (Formerly Weigle Steel Pipe Works), 3001 Larimer St., Denver, Col.
Pres. and G. M.—L. E. Thompson
Vice Pres. and Treas.—J. L. Brown
Sec.—W. A. Weigele
Supt.—F. W. Rehkow, Jr.
Chief Engr.—G. H. Garrett
EQUIPMENT—Complete equipment for plate steel work and sheet steel work
PRODUCTS—Pipe, culverts, stacks, tanks, steel warm air furnaces
Incorporated

TIPPETT & WOOD, INC., 162 Howard St., Phillipsburg, N. J.
Pres. and Treas.—R. W. Becker
Vice Pres.—Wm. A. Brunner
Sec.—S. T. Wilson
Supt.—V. Hartley
PRODUCTS—Steel plate fabrication, tanks, pipes, stacks, smoke flues, penstocks, bins, hoppers, standpipes, etc.; riveted and welded construction
Incorporated—10,000 shares common no par value; 820 shares preferred, $100 par value

TITUSVILLE IRON WORKS CO., THE, Titusville, Pa.
Pres. and Gen. Mgr.—J. T. Dillon
Treas., Sec. and P. A.—J. W. Borne
Vice Pres.—B. A. Brennan
Asst. Treas. and Asst. Sec.—H. H. Crosby
Supt. Mach. Dept.—W. A. Smith
Supt. Boiler Dept.—T. J. McNamara
Chief Engr. Mach. Dept.—C. E. Fisher
Chief Engr. Boiler Dept.—F. M. Hull
PRODUCTS—Manufacturers of boilers, all types; tanks, general plate work, gas and steam engines, rotaries, pumps, etc.
Incorporated—$2,500,000
Railroads—Penna., N. Y. C.

TODD CONSTRUCTION & DRY DOCK CORP., Tacoma, Wash.
Gen. Mgr.—J. A. Eves

TODD DRY DOCK, ENGINEERING & REPAIR CORP., Foot 23rd St., Brooklyn, N. Y.
Pres.—J. Herbert Todd
Vice Pres.—Joseph Haag, Jr.
Vice Pres.—James McDonald
Vice Pres.—Wm. H. Smith
Treas.—Frank H. Reimers
Sec.—J. L. Lawder
Asst. Sec.—John V. T. Bonnett
Pur. Agt.—Harold Shannon
C. E.—Geo. P. Haynes
Storekeeper—James E. Anderson
Chief Draftsman—Charles W. Avery
PRODUCTS—Ship building, ship repairs, marine and stationary oil burners

TODD DRY DOCKS, INC., 1801 16th Ave., S. W., Seattle, Wash.
Chairman—C. W. Wiley
Pres.—H. W. Kent
Vice Pres. and Gen. Mgr.—A. R. Hunt
Sec. and Treas.—O. M. Lund
Pur. Agt.—C. R. English
PRODUCTS—Marine repair work only
Incorporated

TOLEDO CRANE CO., Lincoln Way and N. Y. C. R. R., Bucyrus, O.
Pres.—C. F. Michael
G. M. and Chief Engr.—C. E. Schirmer
PRODUCTS—Overhead electric traveling cranes and hoists
Incorporated—$200,000
Railroads—N. Y. C., Penna.

TOLEDO METAL MFG. CO., Cleveland, cor. Michigan, Toledo, O.
PRODUCTS—Steel plate and sheet work

TOLEDO SHIPBUILDING CO., INC., 2245-2357 Front St., Toledo, O.
Pres. and Treas.—H. S. Wilkinson
Vice Pres.—Edward Hopkins
Asst. Treas. and Sec.—A. D. Black
Pur. Agt.—Otto Hall
Mgr. Const.—Joseph F. Rawlinson
Chief Engr.—John A. Crafts
Chief Draftsman—John L. Goble
PRODUCTS—Steel ships and ship machinery
Incorporated—60,000 shares, no par value
Railroad—W. & L.

TOLEDO WIRE & IRON WORKS, THE, Locust and Oneida Sts., Toledo, O.
Pres.—Willard D. Robison
Vice Pres. and Treas.—W. M. Ashley
Sec.—Randolph P. Whitehead
Supt.—S. Smith
Supt.—H. Melcher
Chief Engr.—C. L. Ferguson
Struct. Engr.—A. V. Blackburn
PRODUCTS—Structural steel, ornamental iron and bronze work
Capacity—200 tons per month, $20,000 worth of ornamental iron
Railroad—Spur terminal connections

TOMAHAWK STEEL & IRON WORKS, Tomahawk, Wis.

TOPEKA FOUNDRY & IRON WORKS, Topeka, Kan.
Pres.—John Masching
Vice Pres.—H. W. Page
Treas.—G. A. Seevers
Sec. and Gen. Mgr.—G. L. Bybee
Supt.—John Daneke
Supt.—B. W. Erwin
Engr.—I. W. Clark

TOPEKA STEAM BOILER WORKS CO., 113 to 135 Jefferson Ave., Topeka, Kan.
Pres. and Gen. Mgr.—Henry Bromich
Vice Pres. and Supt.—Walter Bromich
Treas. and Sales Mgr.—C. B. Smith
Sec.—Paul P. Aronhalt
Foreman—R. L. Arthur

PRODUCTS—Breechings, stacks, tanks and plate metal work
Incorporated—$200,000
Railroads—C. R. I. & P., A. T. S. Fe, switches

TORRANCE & SON, JOHN, LaCrosse, Wis.
PRODUCTS—Structural iron and steel work

TOWER IRON WORKS, JAMES H., 50 Borden St., Providence, R. I.
PRODUCTS—Structural steel

TRAGESSOR STEAM COPPER WORKS, 445 W. 26th St., New York, N. Y.

TRAINOR, INC., P. C., 122 Greene St., Brooklyn, N. Y.
PRODUCTS—Boilers, tanks, sheet metal work and repairs

TREADWELL CONSTRUCTION CO., Midland, Pa.
Chairman—J. S. Casey
Pres.—S. N. Craig
Vice Pres.—W. F. Satterlee
Treas., Sec. and Pur. Agt.—B. W. Hunsicker
Auditor—J. C. Potts
Chief Engr.—H. K. Wilde
Chief Draftsman—E. E. Harton
PRODUCTS—Steel plate construction
Incorporated—1,000 shares; capital and surplus, $450,000
Railroad—Penna., Ohio River boats

TRENKHORST TANK MFG. CO., 902 Larrabee St., Chicago, Ill.

TRIER, OSCAR, 2511 8th Ave., New York, N. Y.
PRODUCTS—Steel plate work

TRI-STATE ENGINEERING CO., THE, Zanesville, O.
Pres. and Treas.—L. A. Woodard
Vice Pres.—B. G. Cope
Sec. and Pur. Agt.—C. A. Reese
Supt.—G. P. Jacob
EQUIPMENT—Plate and forge, pattern foundry and machine shops
PRODUCTS—Steel mill equipment and clay working machinery
Incorporated
Railroads—P. R. R., B. & O., and W. & L. E.

TRUSCON STEEL CO., 1315 Albert St., Youngstown, O.
Pres. and G. M.—Julius Kahn
Vice Pres. and S. M.—Gustave Kahn
Vice Pres.—W. C. Conger
Treas.—Day Krolik
Asst. Treas.—J. W. McGuire
Sec.—H. M. Butzel
Asst. Sec.—W. J. T. Davis
Pur. Agt.—F. H. Smith
Storekeeper—G. G. Sheldon
Works Mgr.—H. E. White
Supt.—A. Senf
Chief Engr.—R. D. Snodgrass
Chief Draftsman—G. A. Cook
Mech. Engr.—W. Schulz
M. M.—R. J. Francis
Elec. Engr.—G. A. Hughes
Foreman Mach.—M. Shunn
Foreman Repairs—J. Murdock
PRODUCTS—Steel products
Incorporated — Authorized, $12,000,000; issued, $8,724,270
Railroads—Erie and N. Y. Central

TUCKER BOILER & TANK WORKS, THE, 72 Waldo St., Newark, O.
Partnership—W. M. Tucker and C. J. Tucker
PRODUCTS—Small boilers, tanks, stacks, light and heavy sheet work and repairing
Railroads—Private side track, B. & O., and Penna.

TUDOR BOILER & MFG. CO., THE, 715 E. 3rd St., Cincinnati, O.
Pres. and Treas.—Cliff M. Tudor
Vice Pres.—Milton J. Tudor
Sec.—Harry B. Lang
Sales Mgr.—Chas. E. Tudor
Struct. Engr., Chief Draftsman and Mech. Engr.—Geo. Peters
PRODUCTS—Boilers, tubular and water tube, tanks of all kinds
Incorporated—$92,000

TULSA BOILER MACHINERY CO., Box 1963, Tulsa, Okla. Plant: West Tulsa, Okla.
Pres.—J. E. Carnahan
Vice Pres.—R. E. Carnahan
Treas. and Sec.—R. M. Jones
Asst. Treas.—F. S. Hill
Pur. Agt.—S L. Spence
Supt.—M. H. Kotzebue
Chief Draftsman—S. H. Morris
Mech. Engr.—C. L. Bryan
Foreman—J. C. Tobias
PRODUCTS—Riveted and electric welded tanks, agitators, storage tanks, steel plate fabrication, refinery and gasoline plant equipment
Incorporated—$150,000; issued, $140,000
Railroad—St. L. & S. F.

TURL IRON & CAR CO., INC., THE, Newburgh, N. Y.
Pres.—J. J. Naugle
Vice Pres. and Asst. G. M.—E. H. Billip
Sec.—E. M. Evarts
Treas.—Donald Luke
Pur. Agt.—N. J. Schoenberger
Supt.—Wm. Dyke
Struct. Engr. and Draftsman—T. Thomsen
PRODUCTS—Sugar machinery, steel tanks, structural steel, plantation railway cars
Incorporated
Railroads—N. Y. C., Erie, Hudson steamboats

TWIN CITY BOILER WORKS, 320 King St., Bristol, Va.
Pres., Treas., Pur. Agt., Sales and Gen. Mgr.—J. G. Tilley
Vice Pres.—W. R. White

Sec., Supt., Mgr. Const. and Storekeeper—W. L. Griffin
Foreman—Jesse Griffin
EQUIPMENT—Boiler, plate and structural shops
PRODUCTS — Boilers, tanks, structural steel, sheet and pate work
Capacity—$100,000 worth of business annually
Incorporated—$15,000; issued, $10,000
Railroads—N. & W., Southern, private siding

TWIN CITY BRIDGE CO., 411 N. Y. Life Bldg., Minneapolis, Minn.

U

UNION BOILER & MFG. CO., North 4th St. and Reading R. R., Lebanon, Pa.
Pres.—James W. Sharp
Vice Pres.—John Hunsicker
Sec. and Treas.—H. T. Richards
Supt.—W. A. Schools
PRODUCTS—Steel plate, structural, tanks, stacks, etc.
Incorporated—$100,000; issued, $75,750
Railroad—Reading, siding

UNION BRIDGE CO., Portland, Ore.
Pres.—Chas. G. Huber
Chief Engr.—R. M. Murray
PRODUCTS—Bridge Construction
Incorporated

UNION FDRY. WORKS, 38 So. Dearborn St. Plant: 7610 Greenwood Ave., Chicago, Ill.
Pres. and Treas.—W. R. Gwinn
Sec.—John F. Gwinn
Supt.—H. E. Gremp
Chief Draftsman—Oscar J. Liss
Foreman Machinist—T. Newratel
PRODUCTS—Structural and ornamental iron and steel
Capacity—3,500 tons annually
Incorporated—$50,000
Railroads—Penna., Lake Shore

UNION IRON WORKS CO., 212 12th St., N. W., Washington, D. C. Main office: Waterloo, Va.
Pres. and G. M.—J. H. Ford
Vice Pres.—W. F. Willoughby
Sec. and Treas.—M. E. Lee
Asst. Sec. and Asst. Treas.—P. Moorhead
Supt.—J. D. Moorhead
EQUIPMENT—Structural steel fabricating shop, ornamental iron shop, foundry
PRODUCTS—Structural steel and ornamental iron
Incorporated—$240,000
Railroads—Own siding, R. F. & P. R. R.

UNION IRON WORKS CO., THE, Selma, Ala.
Pres.—I. B. Ellis
Vice Pres.—W. I. Black
Sec., Treas. and G. M.—W. T. Cody, Jr.
Storekeeper—W. Parr
Asst. Gen. Mgr.—P. C. Cleveland
Supt.—W. I. Finford
Foreman Mach. and Repairs—L. I. Wise
Foreman—I. P. Cook
PRODUCTS—Grey iron foundry, boilers and general repairs
Incorporated—$75,000

UNION IRON WORKS OF CALIFORNIA, 5125 Santa Fe Ave., Los Angeles, Cal. Plant: East Slauson and Garfield Aves.
Pres.—Horac G. Miller
Vice Pres. and G. M.—Robert P. Miller
Vice Pres.—HT. W. Thorn
Vice Pres.—W. V. McClung
Vice Pres.—V. L. Jones
Treas.—R. F. Bostwick
Adv. Mgr.—Glenn H. Doughty
Pur. Agt.—C. A. Hoeppner
Chief Draftsman—F. M. Crosier
PRODUCTS—Structural steel fabricators, manufacturers of traveing electric cranes, steel floor joists, steel industrial buildings, joist hangers, joist anchors
Capacity—2,000 tons per month
Incorporated

UNION IRON WORKS, 26th and Michigan, San Francisco, Cal.

UNION IRON WORKS, Montgomery and Lidgerwood Sts., Spokane, Wash.

UNION IRON WORKS, 1500 Cascade St., Erie, Pa.
Pres.—F. F. Curtze
Vice Pres. Sales and Gen. Mgr.—George W. Bach
Treas. and Pur. Agt.—E. E. Knobloch
Sec.—E. H. Brevillier
Supt.—J. F. Griggs
Chief Draftsman and Mech. Engr.—Mark E. Smith
M. M.—D. C. Kennedy
Power Engr.—L. W. Axtell
Foreman Stack Shop—Thomas Silk
PRODUCTS—Steel boilers, water tubes and fire tube, stacks and tanks
Incorporated—$300,000; issued, $292,000
Railroad—N. Y. C., siding

UNION SHIPBUILDING CO., P. O. Box 475, Baltimore, Md.
Pres.—W. M. Sterrett
Vice Pres.—H. H. McClintic
Treas.—E. J. Patterson
Pur. Agt.—H. F. Boan
Storekeeper—J. M. Brandt
Gen. Mgr.—R. C. Cowles
Supt.—F. C. Stauffen
PRODUCTS—Manufacturers of ferrous and non-ferrous scrap metals
Capacity—70,000 tons per annum
Incorporated
Railroad—Private sidings, B. & O., also water shipping facilities

UNION SHOVEL WORKS, INC., P. O. Box 59, Tyrone, Pa. Plant: Union Furnace, Pa. Successors to Union Furnace Mfg. Co.
Pres.—W. H. Stevens
Vice Pres. Sales—Charles B. Chancellor

Treas., Sec. and Pur. Agt.—Hayward H. Webb
Asst. Treas.—George L. Hufford
Asst. Sec.—C. W. Betting
Storekeeper—J. M. Taylor
Supt.—G. W. Everhart
PRODUCTS—Shovels, spades and scoops
Incorporated—$250,000; issued, $102,900; bonds issued, $45,400
Railroad—Penna., siding

UNION TANK & PIPE CO., 2801 Santa Fe Ave., Los Angeles, Cal.
Pres.—Edw. J. Bowen
Vice Pres.—S. M. Salisbury
Sec. and G. M.—Morgan L. Sweeney
Asst. Sec. and Asst. G. M.—W. R. Atwood
Pur. Agt.—Earl J. Reed
Storekeeper—R. W. Johnson
Sales Mgr.—L. W. Barnes
Supt.—H. E. Solleder
Chief Draftsman—Harry Corwin
PRODUCTS—Plate and sheet steel products
Incorporated—$750,000

UNITED BOILER HEATING & FDRY. CO., 200 Wilcox St., Hammond, Ind.
Pres. and Gen Mgr.—C. N. Nau
Vice Pres., Asst. G. M., C. & Struct. Engr.—F. J. Nau
Treas. and Sec.—L. W. White
Pur. Agt.—L. Dahlkamp
Sales Mgr.—R. T. Crean
Supt.—F. P. Albert
PRODUCTS—Structural steel, plate work, sheet metal work, ornamental iron work, gray iron and semi-steel castings and patterns
Incorporated—$150,000

UNITED CONSTRUCTION CO., Albany, N. Y.
PRODUCTS—Steel and iron structural work

UNITED IRON WORKS, 580 Second St., Oakand, Cal.
Pres.—R. M. Winsby
Vice Pres. and Supt.—G. E. Randolph
Treas. and Sec.—W. G. Moblad
Pur. Agt. and Gen. Mgr.—W. Wright
Chief Engr.—J. A. Yeatman
Chief Draftsman—C. McKown
Foreman Mach.—L. Miller
EQUIPMENT — Boiler and blacksmith shops, pattern and machine shops, foundry
Incorporated—$500,000
Railroads—S. P., Santa Fe, W. Pac., Pac. Steamships

UNITED IRON WORKS, INC., Kansas City, Mo. 6 Plants: Iola, Independence and Pittsburg, Kan.; Springfield and Joplin, Mo.; Okmulgee, Okla.
Pres. and G. M.—D. C. Morrow
Vice Pres.—L. T. LeBow
Vice Pres. and Treas.—J. H. Campbell
Asst. Treas.—R. M. Metcalf
Sec.—T. R. Stokes
Pur. Agt.—F. M. McCall
PRODUCTS—Foundry (cast iron), machine shops and steel plate fabrication
Railroads—Mo. Pac., A. T. & S. F., M. K. & T., K. C. S., St. L. & S. F.

U. S. BRIDGE & CULVERT CO., 1833 1st St., Bay City, Mich.

U. S. WIND ENGINE & PUMP CO., Batavia, Ill.
Pres. and Treas.—H. N. Wade
Vice Pres.—A. D. Mallory
Vice Pres.—LeB. Turner
Sec.—F. H. Doty
PRODUCTS—Railroad water supplies and farm equipment
Incorporated—$200,000
Railroads—C. & N. W., C. B. & Q., Chi. Aurora & Elgin

UPRIGHT BOILER CO., 519 W. 125th St., New York, N. Y.

UTICA PRODUCTS INC., 1101 Burrstone Road, Utica, N. Y.
Pres.—J. F. Maynard, Jr.
Vice Pres.—I. L. Jones
Treas.—D. L. Fitzpatrick
Sec.—Charles B. Mason
Pur. Agt.—D. W. Pierce
Sales Mgr.—J. F. Rabbitt
Supt.—G. D. Hauser
PRODUCTS—Sheet metal products
Incorporated
Railroads—D. & L. W., siding; N. Y. C., N. Y. O. & M.

UTICA STEAM ENGINE & BOILER WORKS, 800 Whitesboro St., Utica, N. Y.
Pres.—F. S. DeLong
Vice Pres.—F. E. McKeough
Treas.—Benjamin J. Fisher
Sec.—Wm. F. McCann
PRODUCTS—Fabricators, structural steel, tanks, stacks, etc., gray iron castings
Incorporated—$50,000; issued, $25,000
Railroads—D. L. & W., siding; N. Y. C.

V

VAILE & YOUNG, Ridgety and Bush Sts., Baltimore, Md.
Foreman—Herman Meyer
PRODUCTS—Sheet steel products
Partnership
Railroads—B. & O., Penna., West. Md.; also water and rail and water

VAN BRUNT, INC., WM. C., 470 Borden Ave., Long Island City, N. Y.
PRODUCTS—Structural steel and iron work

VANCE & BAKER MFG. CO., 1005 E. 5th St., Muscatine, Iowa
Pres.—Owen E. Vance
Vice Pres. and Treas.—Paul S. Baker
PRODUCTS—General steel work, canning machinery
Ownership—Private
Railroads—R. I., C. M. & St. P.

VANCE BOILER WORKS, Canal and Bradford Aves., Geneva, N. Y.

VANDENBERG, FREDERICK B., 25 Burt St., Auburn, N. Y.
PRODUCTS—Boilers, tanks and repairs

VANES BOILER WORKS, JOHN, 105 Montgomery St., Brazil Ind.
PRODUCTS—Boilers and repairs, tanks
Partnership

VANDERLOOT STEEL WORKS, 2611 S. Halsted St., Chicago, Ill.
PRODUCTS—Structural steel fabricating

VAN ZANDT IRON WORKS, Fort Worth, Tex.
PRODUCTS—Boilers

VARIETY IRON & STEEL WORKS CO., 1277 East 40th St., Cleveland, O.
Pres.—J. H. Webster
Vice Pres. and Gen. Mgr.—L. D. Weaning
Treas.—J. H. Webster
Sec.—F. A. Brodhead, Jr.
Pur. Agt.—H. J. Bowie
Supt.—C. Schliecker
Chief Engr.—C. H. Bradley
PRODUCTS — Elevating and conveying equipment, blast furnaces, heavy plate and structural work
Incorporated
Railroads—Penna., N. Y. C.

VELGUTH METAL PARTS, INC., 420 Fourth St., Milwaukee, Wis.
Pres.—A. I. Ziegler
Vice Pres.—Geo. P. Ziegler
Treas., Sec., Gen. and Sales Mgr.—C. Velguth
Supt.—F. Szuta
EQUIPMENT—Punch presses, drill presses, milling machines, grinders, metal stampings
Incorporated
Railroads—C. M. & St. P., Electric and Boat Lines

VERDECKBERG IRON & WIRE WORKS CO., 2342 Broadway, Denver, Col.
Pres. and Treas.—Edward Verdeckberg
Vice Pres.—Myrtle Verdeckburg
Sec.—Steven Verdeckberg
Supt.—Martin Herberger
PRODUCTS—Iron and wire work
Incorporated—$25,000

VICKSBURG BOILER WORKS, Depot, cor. Levee, Vicksburg, Miss.

VICTOR IRON WORKS, 2415 S. 7th, Blvd., St. Louis, Mo.
Pres.—Frank G. Zeis
Vice Pres.—M. B. Kunze
Treas. and Sec.—Geo. B. Wander
Foreman—Wm. Finger
Incorporated—$16,000

VIERLING STEEL WORKS, 23rd and Stewart Ave., Chicago, Ill.
PRODUCTS—Structural steel

VINCENNES BRIDGE CO., Vincennes, Ind.
Pres., Pur. Agt. and G. M.—F. L. Oliphant
Vice Pres.—J. L. Riddle
Vice Pres.—C. O. Free
Treas.—Earl Oliphant
Sec.—Hugh I. Stevens
Chief Engr.—B. B. Johnston
Supt.—A. W. Upland
PRODUCTS—Bridges and structural steel
Capacity—1,000 tons monthly
Incorporated—$50,000; invested capital, over $1,000,000
Railroads—Four lines

VIRGINIA BRIDGE & IRON CO., Roanoke, Va. Plants: Roanoke, Va.; Birmingham, Ala.; Memphis, Tenn.
Pres.—C. Edwin Michael
Vice Pres. and G. M.—Robert J. Meybin
Vice Pres. and Mgr. Const.—G. A. Tretter
Sales Mgr.—B. L. Sneed
Mech. Engr.—Geo. Rasmussen
Supt.—N. B. Atkins
Elec. Engr.—E. V. Willis
Foreman Mach.—W. I. Kefauver
Foreman Backsmith—S. O. Patterson
Treas.—John R. Parker
Sec.—H. S. Dance
Asst. to Sec.—R. L. Mastin
Pur. Agt.—G. M. Milliken
Chief Engr.—P. A. Blackwell
Asst. Gen. Mgr.—John McCleary, Jr.
Chief Draftsman—J. W. Ridout
PRODUCTS—Structural steel for buildings, bridges, cars, etc.
Capacity—125,000 tons annually
Incorporated—$3,000,000
Railroads—N. & W., Virginian

VIRGINIA IRON WORKS CORP., Water, cor. Madison Sts., Norfolk, Va.

VOGGENTHALER CO., E. J., 376-386 E. 8th St., Dubuque, Iowa
Pur. Agt., Gen. and Sales Mgr.—E. J. Voggenthaler
Storekeeper—R. Anderson
Blacksmith—W. B. Clark
PRODUCTS—Structural steel, ornamental iron and general machine shop
Ownership—Private

VOGT MACHINE CO., HENRY, Louisville, Ky.
Pres.—Henry Vogt
Treas. and Sec.—G. A. Heuser
Asst. Treas. and Asst. Sec.—G. A. Daeuble, Jr.
Pur. Agt.—S. M. Nuttall
Supt.—H. E. Vogt
Chief Engr.—S. Thurstensen
Draftsmen—T. B. Collins and B. F. Kubaugh
Power and Elec. Engr.—L. Heil
Foreman Mach.—Geo. Graf
Incorporated
PRODUCTS—Refrigerating machinery, oil refinery equipment, water tube and horizontal tubular boilers, drop forged steel valves and fittings

VULCAN MFG. CO., Fond Du Lac, Wis.
PRODUCTS—Structural steel and iron work

VULCAN MFG. CO., 1200 4th Ave., Seattle, Wash.
PRODUCTS—Steel tanks and steel work

VULCAN RAIL & CONSTRUCTION CO., Grand St., Maspeth, N. Y.
Chairman—Charles H. Simmons
Pres.—William B. Cater
Vice Pres., Sales and Asst. G. M.—Wm. H. Cater
Treas.—Frank H. Simmons
Sec.—Thomas M. Cater
Pur. Agt.—H. R. Peterson
Storekeeper—E. Hopley
Gen. Mgr.—William B. Cater
Mgr. Const.—William Shanks
Supt.—W. B. Elliott
Supt.—A. Greger
Chief Engr.—Chas. H. Wilson
Chief Draftsman—A. J. Rahtz
PRODUCTS—Light structural and ornamental iron work, pipe railings, fire doors, etc.
Incorporated—$250,000; issued, $247,300
Railroad—Private siding

W

WACHS CO., E. H., 1525 Dayton St., Chicago, Ill.

WACKMAN WELDED WARE CO., 7th and Victor Sts., St. Louis, Mo. Branch Plant: Sawyer St. and So. Pacific R. R., Houston, Tex.
PRODUCTS—Steel tanks, barrels and containers

WALLACE BRIDGE & STRUCTURAL STEEL CO., P. O. Box 48, Seattle, Wash. Plant: West Marginal Way and West Idaho Sts.
Pres.—J. F. Duthrie
Asst. to Pres.—Paul Pigott
Vice Pres.—Wm. Edris
Treas. and Sec.—G. W. Jlinefetter, Jr.
Pur. Agt.—C. W. Summerville
Gen. Mgr.—W. J. Duthie
Supt.—Alfred Duthie
Chief Engr.—A. C. Nation
PRODUCTS—Structural steel, bridges and building, towers, barges
Capacity—1,000 tons per month
Incorporated—$450,000
Railroads—Rail and water shipments

WALLACE STEEL & SUPPLY CO., Lafayette, Ind.
Pres.—Robert B. Wallace
Vice Pres.—Wm. Wallace
Sec. and Treas.—James B. Duncan
PRODUCTS—Structural, ornamental and miscellaneous steel and building materials
Incorporated—$40,000
Railroads—Nickel Plate (L. E. & W.) Wabash, N. Y. Cent. (Big 4), Monon., 2 traction rys.

WALLS, OWEN & STAMBACH CO., 11th and Ridge Ave., Philadelphia, Pa.
Pres.—W. Walls
Vice Pres. and P. A.—Wm. P. Owen
Sec. and Treas.—G. D. Sandham
Sales Mgr.—Wm. R. Schmidt
Incorporated

WALSH BOILER & IRON WORKS, INC., 221 Liberty St., Springfield, Mass.
Pres. and Treas.—Richmond Lewis
Gen. Mgr.—Dwight G. Eaton
Foreman—James Murphy
PRODUCTS—Boiler repairs, smoke stacks and tanks
Railroad—Own side track

WALSH & WEIDNER BOILER CO., THE, Chattanooga, Tenn.
PRODUCTS—Water tube and tubular boilers, tanks, plate and structural steel

WANGLER BOILER & SHEET IRON WORKS, JOS. F., 911 Federal Reserve Bldg., St. Louis, Mo.

WARD ENGINEERING WORKS, THE CHARLES, South Side, Charleston, W. Va.
Pres.—Charles E. Ward
Vice Pres.—Harold M. Ward
Vice Pres., Treas. and Pur. Agt.—E. T. Jones
Sec.—W. W. Allen
Storekeeper—E. E. Allen
Supt. (Hull)—Gordon M. Woody
Chief Engr.—A. J. Dawson
PRODUCTS—Boats, barges, boilers and steel river equipment
Incorporated

WARNOCK CO., WM., Sioux City, Iowa
PRODUCTS—Steel tanks

WARREN BROTHERS CO., 32 Potter St., E. Cambridge, Mass.
Pres.—John Dearborn
Treas.—E. Sutcliffe
Asst. Treas.—R. W. Price
Sec.—H. M. Warren
Pur. Agt.—W. B. Slemmer
Sales Mgr.—H. L. Alley
Mgr. Mfg. Div.—J. J. Doyle
Supt. Works—B. H. Henderson
Chief Draftsman—H. L. Kline
PRODUCTS—Asphalt paving plants and accessories, street repair tools
Railroad—Spur siding, Boston and Maine, Canal (Barge) bordering property

WARREN CITY TANK & BOILER CO., THE, Griswold St., Warren, O.
Pres. and G. M.—A. R. Hughes
Vice Pres.—W. F. Edwards
Sec. and Treas.—B. W. Edwards
Asst. Sec.—W. H. Ott
Pur. Agt.—W. M. Nicholas
Storekeeper—Geo. Lowe
Supts.—D. J. O'Rourke and B. H. Seiple
Chief Engr.—L. N. Allard
Mech. and Struct. Engr.—J. F. Patterson
Chief Draftsman—L. W. Patterson

Power Engr.—Thos. Weider
PRODUCTS—Steel tanks and heavy steel plate work
Incorporated
Railroads—Erie and Penna.

WASHINGTON IRON WORKS, Sherman, Tex.

WASHINGTON IRON WORKS CO., 6th Ave., So. and Atlantic St., Seattle, Wash.
Pres. and Gen. Mgr.—Gerald Frink
Vice Pres., Sales Mgr., Sec. and Pur. Agt.—Francis G. Frink
Treas.—C. F. Bridge
Chief Engr.—K. Berger
Foreman Mach.—W. L. Carson
EQUIPMENT—Boiler, forge, machine and pattern shops, gray iron foundry, steel foundry, electric
PRODUCTS—Boilers, Diesel engines, logging engines, hoisting engines, steel castings, etc.
Incorporated—$500,000
Railroads—G. N., No. Pac., O. & W.

WASSAU IRON WORKS, Wassau, Wis.
Pres. and G. M.—A. C. Hunzen
Vice Pres.—Chas. Wegner
Treas.—J. J. Hunzen
Sec. and Pur. Agt.—W. A. Cramer
Supt.—Henry Krunke
Chief Engr.—W. L. Fehlandt
Chief Draftsman—H. C. Manecke
Blacksmith—John Duzinske
PRODUCTS — Structural Steel bridges, snow plows
Capacity—4,500 tons
Incorporated—$150,000
Railroads—C. & N. W., C. M. & St. P.

WATSON CO., JAS. H., Bradley, Ill.
PRODUCTS—Steel tanks

WATERLOO METAL & MFG. CO., Miles St. at Commercial, Waterloo, Iowa
Pres.—Julius Roeder
Vice Pres.—Ferd Koch
Vice Pres. Treas. and Sec.—A. A. Roeder
PRODUCTS—Sheet metal products
Incorporated—$14,000

WAYNE HEATER CORP., 217 Main St., Richmond, Ind.

WAYNE TANK AND PUMP CO., 728 Canal St., Fort Wayne, Ind.
Pres.—W. M. Griffin
Vice Pres. and Gen. Mgr.—B. F. Geyer
Treas.—E. A. Zern
Sec.—C. G. Guild
Pur. Agt.—O. W. Barrett
Sales Mgr.—A. D. Carriger
Supt.—W. F. Brandt
Chief Engr.—W. F. Baxter
PRODUCTS—Self-measuring pumps, storage tanks, water softeners, oil burners, electric refrigerators
Incorporated—$1,574,000
Railroads—Four trunk lines

WEBBER IRON WORKS, 7th Ave. and No. 30th St., Birmingham, Ala.
PRODUCTS—Steel tanks

WELLAND, WM. I., 1867 Barth Ave., Indianapolis, Ind.
PRODUCTS—Boiler repairing, steel plate work

WEILL, McLAIN CO., 49th and 2nd St., Brooklyn, N. Y.
PRODUCTS—Boilers, sheet metal work, etc.

WEITZ BROTHERS, Park and Bell Ry., Evansville, Ind.
PRODUCTS—Boilers, repairing and steel work

WELDED PRODUCTS CO., 2700 North 7th Ave., Birmingham, Ala.
Pres.—J. B. Hendrickson
Vice Pres. and G. M.—A. J. Deacon
Sec. and Treas.—H. P. Rust
Asst. Sec. and Asst. Treas.—L. Paulin
Pur. Agt.—M. W. Bagwell
Asst. Gen. Mgr. and C. E.—E. N. Spence
Supt.—J. E. Yarbrough
EQUIPMENT—Air compressors, cranes, punches, shears, rolls, forges, welding equipment
PRODUCTS—Tanks, welded and riveted; pipe, plate work
Capacity—750 tons per month
Incorporated—$95,000; bonds, $27,000
Railroad—On Main Line Southern Ry.

WELDED STEEL BARREL CORP., 11830 Charlevoix Ave., Detroit, Mich.

WELLMAN-SEAVER-MORGAN CO., 7000 Central Ave., Cleveland, O.
Pres. and Gen. Mgr.—J. H. Bode
Vice Pres.—F. I. Sanderson
Vice Pres.—S. R. Willock
Treas.—N. R. Fairlamb
Sec.—Fred Stadelman
Asst. Sec.—W. G. Hildebran
Pur. Agt.—M. Irwin
Sales Mgr.—H. P. Glidden
Supt.—J. B. Shaub
PRODUCTS—Ore and coal handling machinery, coke oven equipment, mining machinery, steel plant machinery, rolling mills, gas producers, car dumpers, hoisting machinery, seamless tube mill machinery
Incorporated—$2,000,000, pfd.; 35,000 shares common, no par value

WELLS ARCHITECTURAL IRON CO., Bronx, New York, N. Y.
A. C. S. and J. S. T. Wells
Incorporated—$100,000

WELLS, HARRY M., Alexandria Ind.
PRODUCTS—Boilers and repairs

WELLS & SON CO., JOHN K., 20-26 Green St., Maldene, Mass.
Pres. and Supt.—Fred E. Wells
Treas., Gen. Mgr. and Pur. Agt.—John K. Wells
Sec.—Abbie J. Wells
PRODUCTS—Sheet metal work and ventilation
Incorporated

WENDNAGEL & CO., 22nd and Jefferson Sts., Chicago, Ill.
PRODUCTS—Structural steel work

WEST BROWNSVILLE BOILER WKS., 309 So. Main St., Brownsville, Pa.

WEST COAST STEEL CO., 1948 Pacific Ave., Tacoma, Wash.

WEST END IRON WORKS, 267 Columbia St., Cambridge, Mass.

WEST END IRON & WIRE WORKS, 3424 W. 46th St., Cleveland, O.

WEST POINT BOILER & TANK WKS., 23rd and Smallman Sts., Pittsburgh, Pa.

WEST SIDE STRUCTURAL CO., INC., Troy, N. Y.
Pres.—Wm. E. Whitney
Vice Pres. and Treas.—Wm. N. Sleichean
Asst. Treas. and Gen. Mgr.—G. Edward Rich
Sec. and P. A.—Arthur Butler
Chief Engr.—Alexander King
Struct. Engr.—Robert Taylor
Foreman Struct. Shop—Andrew Bywalter
Foreman Ornam't. Dept.—Wm. Lustinator
Blacksmith—Geo. Pryor
Foreman Templet Shop—Jessie Clivit
PRODUCTS—Structural steel and ornamental iron work
Capacity—2,500 tons
Capital—$125,000
Railroads—Del. & Hud., N. Y. C.

WESTERN ARCHITECTURAL IRON CO., 211-223 W. Schiller St., Chicago, Ill.
Pres. and Treas.—E. M. Rundgren
Vice Pres.—L. C. Case
Sec. and P. A.—A. E. Franson
Sales Mgr.—J. C. Higgins
Foreman—J. Staske
PRODUCTS—Ornamental iron, steel sash
Incorporated—$100,000

WESTERN BLOWER CO., 1800 9th Ave., Seattle, Wash.
Pres. and Gen. Mgr.—Allen O. Miller
Vice Pres.—W. L. Dudley
Treas., Sec. and Sales Mgr.—George W. Penny
Pur. Agt.—W. A. Morrison
Storekeeper—Jack L. Sleeper
Supt. Boiler Shop—T. H. Ryan
Supt. Fan Shop—C. A. Carlson
Chief Engr.—W. L. Dudley
Chief Draftsman—John K. Miller, Jr.
PRODUCTS—Tanks, fans, air washers, sheet metal specialties
Incorporated—$100,000; issued, $83,500; bonds issued, $20,000
Railroad—N. P., Railway Shore Line passes through plant

WESTERN BRIDGE & CONSTRUCTION CO., Omaha, Neb.
Pres.—R. T. Wenstrand
Vice Pres. and Gen. Mgr.—J. Q. Hossack
Sec. and Treas.—C. L. Dettman
Supt.—Glenn I. Voyles
PRODUCTS—Bridges, roads, culverts, paving, foundations and dams
Incorporated—$241,500

WESTERN ENG. CORP., 5237 E. Marginal Way, Seattle, Wash.
Pres., Treas., Pur. Agt. and G. M.—F. M. Fadden
Vice Pres.—M. E. Fadden
Sec. and Supt.—F. J. Yelocan
Storekeeper—Robert Foreman
Chief Engr.—S. Rodway
Foremen—Edward Egiser, George Tubb
PRODUCTS — Boilers, tanks, hydraulic pipe, structural steel
Capacity—1,000 tons annually
Incorporated—$50,000
Railroads—N. P., G. N., C. M. & St. P., switches into plant

WESTERN GAS CONSTRUCTION CO., 1431 Buchanan St., Fort Wayne, Ind.
Pres.—H. B. Rust
Vice Pres.—W. F. Rust
Vice Pres.—F. H. Beebe
Vice Pres.—C. J. Ramsburg
Treas.—S. T. Brown
Asst. Treas.—W. C. Marquardt
Sec.—J. St. C. Brookes, Jr.
Pur. Agt.—F. M. Talbot
Sales Mgr.—A. E. Robertson
Supt.—G. M. Albert
Chief Engr.—T. W. Stone
Chief Draftsman—P. M. Kleeberg
EQUIPMENT—Pattern, gray iron foundry, machine, forge, tank and electric welding shops
Incorporated—$750,000

WESTERN IRON CONSTRUCTION CO., 4908 No. Clark St., Chicago, Ill.
PRODUCTS—Structural steel fabricating

WESTERN IRON & FDRY. CO., 702 E 2nd St., Wichita, Kan.
Pres.—J. F. Warren
Vice Pres.—F. J. Anthony
Treas.—G. Anthony
Sec. and Pur. Agt.—J. Q. Warren
Gen. Mgr.—H. Anthony
Supt.—F. J. Anthony
Struct. Engr. and Chief Draftsman—G. M. Shelly
Foreman Machine—W. Corzine
Foreman Struct. Shop—W. A. Robinson
PRODUCTS—Structural steel and iron work, oil field and refinery equipment
Incorporated — $300,000; bonds issued, $35,000
Railroads—S. Fe, R. I., M. & R., Midland Valley

WESTERN IRON WORKS, 141 Beale St., San Francisco, Cal.
PRODUCTS—Structural steel and iron work

WESTERN PIPE & STEEL CO. OF CAL., 5717 Santa Fe Ave., Los Angeles, Cal. Plants: San Francisco, South San Francisco, Fresno and Taft, Cal.; and Phoenix, Ariz.

Pres.—J. W. Mason
Vice Pres.—J. A. Talbot
Vice Pres.—H. G. Tallerday
Vice Pres.—W. F. Howard
Sec.-Treas.—W. G. Aldenhagen
Sales Mgr.—R. D. Plageman
PRODUCTS—Fabricators of plate and sheet steel work, tanks and pipe
Incorporated

WESTERN STEEL PRODUCTS CO., Foot of Commonwealth Ave., New Duluth, Minn.
Pres.—Seth Marshall
Vice Pres.—H. B. Price
Treas.—F. B. Hubler
Sec.—C. M. Rice
Pur. Agt.—G. A. Drannen
Sales Mgr.—F. E. Flaherty
Chief and Mech. Engr.—George Lindberg
Foreman Blacksmith—W. D. Black
PRODUCTS—Sheet, plate and structural steel furnaces, tanks, mail boxes, agricultural specialties
Incorporated
Railroad—No. Pac. trackage

WESTERN STRUCTURAL CO., 3201 4th Ave., Moline, Ill.
Pres.—Lawrence Roys
Vice Pres. and Sec.—M. H. Rice
Treas.—L. C. Roys
Storekeeper—W. A. Keas
Supt.—W. G. Foster
Chief Draftsman—M. C. Mattson
PRODUCTS—Structural steel and ornamental iron fabrication
Capacity—2,000 tons per year
Incorporated—$25,000
Railroad—C. R. I. & P.

WESTERMAN BROTHERS, Bremen, O.
Gen. Mgr. and P. A.—C. C. Westerman
Asst. Gen. Mgr. and Pur. Agt.—G. L. Westerman
Foreman—S. W. McVeigh
PRODUCTS—Boiler repairs, stacks, tanks, tool boxes, producer gas pipe and sheet iron work
Partnership
Railroads—T. & O. C., Penna.

WESTOVER STEEL & IRON WORKS, 19th and W., Lincoln, Neb.
Pres.—John Westover
Sec. and Pur. Agt.—Roy W. Anderson
PRODUCTS—Structural steel and bridge work
Capacity—2,400 tons annually
Incorporated

WETZEL & CO., K. O., 694 So. Rio St., Los Angeles, Cal.
PRODUCTS—Structural steel work

WEYMER CO., E. M., 2820 W. Grand Ave., Chicago, Ill.
Pres. and Gen. Mgr.—E. M. Weymer
Asst. to Pres. and Pur. Agt.—N. S. Sivertsen
Vice Pres. and Chief Draftsman—Wm. O. Anderson
Treas.—Fred O. Rippel
Sec.—John L. Beam
Storekeeper—Robert Rietow
Supt. Shop—Walter Penekuhn
Asst. Draftsmen—A. C. Osgard and S. Pesek
Foreman Blacksmith—E. Ziehe
PRODUCTS—Ornamental bronze and iron work
Incorporated—$25,000; issued, $20,000

WHALE CREEK IRON WORKS, 345 Huron St., Brooklyn, N. Y.
PRODUCTS—Structural steel and iron work

WHITACRE BOILER CO., THE, Wellsville, O.
Pres.—E. G. Whitacre
Vice Pres. and Gen. Mgr.—R. E. Morton
Treas.—G. A. Patterson
PRODUCTS—Steam and heating boilers, vapor and water, domestic water heaters, water condensers, combination condenser and battery melters

WHITE IRON WORKS, C. M., 24 Bowker St., Boston, Mass.

WHITEHEAD & KALES CO., Detroit, Mich. Plants: River Rouge and Detroit, Mich.
Pres.—J. T. Whitehead
Vice Pres.—Wm. R. Kales
Vice Pres.—Thos. C. Whitehead
Treas.—J. T. Warner
Asst. Treas.—N. C. McMack
Sec.—S. E. Roberts
Mgr. Struct. Div.—L. J. Knapp
PRODUCTS—Structural steel
Incorporated

WHITTAKER & DIEHL, Harrisburg, Pa.
PRODUCTS—Structural steel and iron work

WICKES BOILER CO., THE, 502 No. Water St., Saginaw, Mich.
Pres.—H. T. Wickes
Vice Pres.—E. B. Wickes
Vice Pres.—H. R. Wickes
Supt.—C. L. Smith
Sec.—F. H. Payne
Pur. Agt.—E. L. Perry
Gen. Mgr.—H. E. Aldrich

WILCOX ENG. CO., Saginaw, Mich.
PRODUCTS—Steel plate work and tanks

WILDMAN BOILER & TANK CO., 3022-26 Carroll Ave., Chicago, Ill.
Pres., Treas. and G. M.—William Wildman
Vice Pres. and Mgr. Sales—William Murray
Sec.—Paul Kornfeld
Pur. Agt.—Theodore Dilks
Supt.—F. Peters
PRODUCTS—Tanks, smoke stacks, breechings and fabricators of steel plates
Incorporated—$15,000

WILFONG IRON WORKS CO., MILLARD, 52nd and P. B. & W. R. R., Philadelphia, Pa.
Pres.—J. R. Wilfong
Treas. and Sec.—Irwin Fisher
PRODUCTS—Annealing boxes, galvanizing kettles
Incorporated
Railroad—Penna.

WILKS MFG. CO., S., 3517-3539 Shields Ave., Chicago, Ill.
Pres.—E. W. Sedgwick
Vice Pres.—V. W. Sedgwick
Treas. and Sec.—H. M. Sedgwick
EQUIPMENT—Wilks water heaters, garbage burners and steel tanks
Incorporated—$50,000
Railroad—On P. Ft. W. & C. R. R.

WILLAMETTE IRON & STEEL WORKS, Portland, Ore.
Chairman—C. F. Swigert, Sr.
Pres. and G. M.—E. C. Pape
Treas.—H. V. Carpenter
Asst. Treas. and Asst. G. M.—H. H. Vinton
Sec.—M. H. Insley
Pur. Agt.—F. A. Clenaghen
Storekeeper—C. W. Schermerhorn
Chief Engr.—H. E. Bukowsky
EQUIPMENT—Logging machinery, plate products hoists, bearings
Incorporated—$800,000; bonds, $750,000

WILLBORG BOILER & SHEET IRON WORKS, 2300 Nance St., Houston, Tex.

WILLIAMS BRIDGE CO., Syracuse, N. Y.

WILLIAMS & DAVIS BOILER & WELDING CO., 2323 Live Oak St., Dallas, Tex.
PRODUCTS—Stack, tank and boiler repairing
Partnership

WILLIAMSON BROS. CO., Aramingo and Cumberland Ave., Philadelphia, Pa.
PRODUCTS—Tanks, boilers, repairs

WILLIAMSON FDRY CO., Marburg Ave., Cincinnati, O.

WILLIARD & CO., CHARLES P., Winthrop Harbor, Ill.
PRODUCTS—Boilers and repairs

WILMINGTON IRON WORKS, Foot of Orange St., Wilmington, N. C.
Pres.—Geo. E. Kidder
Vice Pres., Chief and Mech. Engr.—W. W. Storm
Treas., Sec. and P. A.—E. Z. King
Gen. Supt.—C. C. Wilson
Struct. Engr.—W. D. Beale
Foreman—R. C. Russ
Storekeeper—O. S. Rogers
Incorporated—$45,000
Railroads—Rail and water

WILSDORF CO., M. A., 213-21 St. George St., St. Louis, Mo.
Pres.—M. A. Wilsdorf
Vice Pres. and P. A.—E. C. Wilsdorf
Sec. and Treas.—L. C. Kuehner
Gen. Mgr.—A. M. Wilsdorf
Supt.—G. Hoeffner
Supt.—P. Struessel
EQUIPMENT—For the manufacture of metal products
Incorporated—$300,000; issued, $100,000
Railroads—Mo. Pac. and Manufacturers

WILSON & BENNETT MFG. CO., 6532 S. Menard Ave., Chicago, Ill.
Pres.—M. S. Bennett
Treas., Sec. and G. M.—S. A. Bennett
Pur. Agt.—A. W. Frey
Sales Mgr.—J. C. Bennett
Storekeeper—W. B. Burke
Supt.—A. P. Heinze
M. M.—James Norwood
Elec. Engr.—R. W. Algier
PRODUCTS—Steel containers
Incorporated

WILSON MACHINE CO., 551 Lydell Ave., Rochester, N. Y.
PRODUCTS—Steel plate work

WILSON STRUCTURAL CO., A. O., 40 Smith Place, Cambridge, Mass.
Pres. and Treas.—Albert O. Wilson
Sec.—A. B. Wilson
Supt.—Norman E. Little
Struct. and Sales Engr.—John L. Vaupel
Chief Draftsman—Harold P. Smith
PRODUCTS — Fabrication of structural steel and erection, ornamental iron and bronze
Capacity—200 tons monthly
Incorporated
Railroads—Boston & Maine

WINONA BOILER CO., 163 W. Front St., Winona, Minn.

WINSLOW BOILER & ENGINE CO., 1423 McCormick Bldg., Chicago, Ill.
Chief Engr.—O. F. Carlson

WISCONSON BRIDGE & IRON CO., Western Ave., No. Milwaukee, Wis.
Pres., Treas. and G. M.—H. A. Wagner
Vice Pres.—E. D. Coddington
Asst. Treas.—R. O. Simmerling
Sec. and S. M.—A. C. Bell
Pur. Agt.—A. L. Riemer
Supt.—F. T. Gaines
Chief Engr.—E. F. Barkow and H. A. Kiesow
Chief Draftsman—W. H. Reinecke
Foreman Mach.—J. Andersen
Foreman Repairs—A. Kasten
PRODUCTS — Fabricating and erecting structural steel for bridges and buildings
Capacity—25,000 tons
Railroads—C. M. & St. P. and Soo Line

WITHERS FDRY. & MACHINE WORKS, Atlanta, Ga.
PRODUCTS—Structural steel and iron work

WITT-HUMPHREY STEEL CO., Broad and Huff Ave., Greensburg, Pa.
Chairman—A. F. Humphrey
Pres.—Chas. V. Witt
Vice Pres.—L. R. Foust
Treas. and Sec.—L. M. Harper
Pur Agt.—R. L. Kough
Sales Mgr.—Wm. B. Way
Asst. Sales Mgr.—F. D. Humphrey
Supt.—Wm. Dobson
Draftsman—Frank MacDonald
Chief Engr.—N. J. Guttendorf
EQUIPMENT—Tank shop, 100 x 500 with 5 ten-ton electric traveling cranes; pipe shop, 120 x 300 with 2 fifteen-ton electric traveling cranes; pipe testing and dipping shop, 60 x 120 with 1 twenty-ton electric traveling crane; 3 twenty-ton electric traveling cranes in yard
PRODUCTS—Steel plate construction and metal spraying
Capacity—6,000 to 10,000 tons
Incorporated—$500,000; all issued
Railroad—Penna.

WOLFF COAL SAVER CO., 1330-36 W. Congress St., Chicago, Ill.
Pres.—Wm. Wolff
Vice Pres.—Albert Wolff

WOLFF RANGE BOILER MFG. CO., 2045 Fulton St., Chicago, Ill. Plant: 45th St. and South Western Blvd.

WOLVERINE BOILER WORKS, 434 St. Aubin Ave., Detroit, Mich.
Pres. and Pur. Agt.—James B. Smith
Vice Pres.—Francis Smith
Treas. and Sec.—Wm. T. Smith
Foreman Repairs—Wm. Betzold
PRODUCTS—Boiler repairs
Incorporated—$10,000

WOOD BROS. THRESHER CO., Des Moines, Iowa
Pres.—F. J. Wood
Vice Pres.—E. E. Wood
Sec. and Treas.—R. L. Wood
Asst. Sec., Asst. Treas. and Pur. Agt.—F. W. Wood
Storekeeper—Lance Watkins
Gen. Mgrs.—F. J. Wood, plant; R. L. Wood, admin.
Supt.—Chas. Whitman
Chief Draftsman—Frank Murphy
Mech. Engr.—N. W. Travis
Power and Elec. Engr.—Otto Pyle
Foreman Mach.—R. Mercer
Foreman Repairs—C. Maxwell
Blacksmith—Wm. Sloan
PRODUCTS—Wood working, painting assembly, gray iron foundry, machine shop, forge dept., steel fabricating, sheet metal
Incorporated—$600,000; bonds, $300,000
Railroads—D. M. & C. I. siding, transfer to C. G. W., Rock Island and Ft. Dodge D. M. & S.

WOOD ENGINE CO., S. W., Clyde, N. Y.
PRODUCTS—Boilers and engines

WOOD MFG. CO., JOHN, Washington St., Conshohocken, Pa.
Chairman—Victor Mauck
Pres. and Gen. Mgr.—Frank Sutcliffe
Treas. and Sec.—William J. Long
Pur. Agt.—J. C. Henderson
Storekeeper—M. Robinson
Sales Mgr.—M. H. Feldman
Asst. Gen. Mgr.—H. Lee Koenig
Mgr. Const. and Mech. Engr.—Joseph Winter
Supt.—A. Marland
Chief Draftsman—R. O'Neill
M. M. and Foreman Mach.—George Wright
Elec. Engr.—Fred Hipple
Foreman Blacksmith—Wm. Watson
Foremen—Thomas Wesley, Elmer Leeper, Philip Ford, Amos Kissling, Edward Hurley, John Holt and Fred Salter
PRODUCTS—Gas water heaters, range boilers, steel tanks, ice cream cans
Ownership—Private
Railroads—Reading, Penna., sidings

WORDEN ALLEN CO., P. O. Box 1595, Milwaukee, Wis.
Pres.—E. W. Krueger
Vice Pres. and Sales Mgr.—Wm. F. Kinsella
Treas. and Sec.—Cecil Martin
Asst. Sec. and Gen. Mgr.—E. F. Zuleger
Pur. Agt.—Arthur Sell
Supt.—Richard Wachs
Chief Engr.—Clarence Holegate
Power Engr.—John Clemens
PRODUCTS—Structural steel fabrication of all kinds
Capital—$600,000
Railroad—C. M. & St. P.

WROBBEL-MAINE CO., THE, (formerly The E. R. Rose Co.), 3106 E. 63rd St., Cleveland, O.
Pres., Pur. Agt. and Supt.—Paul Wrobbel
Treas., Sec. and Sales Mgr.—W. J. Maine
Chief Draftsman—Earl Wrobbel
PRODUCTS—Ornamental iron work
Capacity—$10,000
Incorporated—$15,000

WYATT METAL & BOILER WORKS, Box 1201, Dallas, Tex.
Pres.—W. J. Wyatt
Vice Pres. and G. M.—R. Hortenstine
Vice Pres.—C. R. Moore
Sec. and Treas.—M. F. Leavell
Pur. Agt.—M. E. Cox
Sales Mgr.—E. P. Dillman
Supt.—W. C. Leahy
Supt.—W. F. Estes
Chief Engr.—W. B. Van Wart
PRODUCTS—Tanks and culverts
Capacity—10,000 tons
Incorporated—$500,000
Railroad—T. & P. Ry. Co.

WYATT METAL BOILER & TANK CO., 1054 Mahoning Ave., Youngstown, O.

Y

YOUNG BROTHERS CO., 6500 Mack Ave., Detroit, Mich.
Pres.—Charles A. Young
Vice Pres.—Charles H. Lisch
Treas. and Sec.—George A. Young
Pur. Agt.—George J. Roe
Sales Mgr.—Robert B. Reed
Supt.—O. Henke
Chief Engr.—V. A. Fox
Chief Draftsman—Wm. Jarvis
PRODUCTS—Heating, drying, core and mold, and japanning ovens

YOUNGSTOWN BOILER & TANK CO., Youngstown, O.
Pres.—J. P. Keene
Vice Pres.—F. B. Zopf
Vice Pres.—W. C. McGaffic
Treas.—C. R. Vogel
Sec.—C. R. Paisley
Sales Mgr.—R. F. Johnson
Chief Engr.—Paul Little
PRODUCTS—Steel storage tanks, steel plate construction
Incorporated—$500,000
Railroads—B. & O., Erie, Penna., N. Y. C.

YOUNGSTOWN WELDING CO., THE, Oakdale Ave., Youngstown, O.
Pres.—Walter D. McKay
Supt.—Harry Payne
Mech. Engr.—Lee Huff
Sec. and Treas.—C. G. Watson

YUBA MFG. CO., 351 California St., San Francisco, Cal. Plants: Marysville and Benicia, Cal.
Pres.—W. P. Hammon
Vice Pres. and Gen. Mgr.—Newton Cleaveland
Vice Pres.—W. C. Hammon
Treas. and Sec.—A. L. Dahl
Asst. Sec.—E. P. Delahide
Pur. Agt.—E. Q. Parker
Sales Engr.—C. M. Romanowitz
Sales Engr.—N. Dickerman
Chief and Mech. Engr.—W. B. Macaulay
PRODUCTS—Cold dredges, tractors and marine engines
Incorporated—$1,500,000; issued, $779,541.67; bonds, $485,000
Railroads—So. Pac. and W. Pac.

(At Marysville, Cal.)
Supt.—W. B. Macaulay

(At Benicia, Cal.)
Supt.—W. L. Webster

Z

ZELNICKER SUPPLY CO., WALTER A., 511 Locust St., St. Louis, Mo. Plant: 24th and McCausland Sts.
Pres.—Walter A. Zelnicker
Vice Pres.—Ed. Elson
Treas. and P. A.—H. J. Elson
Sec.—A. R. Topping
Works Mgr.—J. A. Brown
Supt.—J. M. Muir
PRODUCTS—Railroad equipment, rails and reclamation
Railroads—Private switch, terminal connections

ZIER BOILER & SHEET IRON CO., No. Pearl St., New Albany, Ind.
Pres.—R. W. Morris
Vice Pres., Treas. and Supt.—Michael Zier
Sec. and Gen. Mgr.—Edw. M. Zier
PRODUCTS—Boiler, sheet metal and structural iron work
Incorporated—$25,000

ZIMMERMAN BOILER & TANK WKS., Iron St. and Big Four R. R., Dayton, O.

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PRODUCTS—General repair work

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