

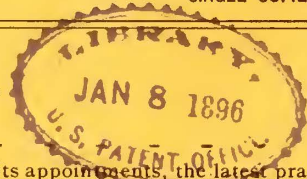
STREET RAILWAY JOURNAL

Vol. XII. No. 1.

JANUARY, 1896.

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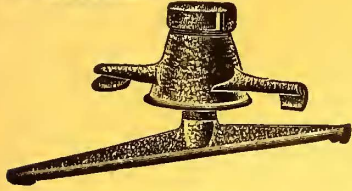
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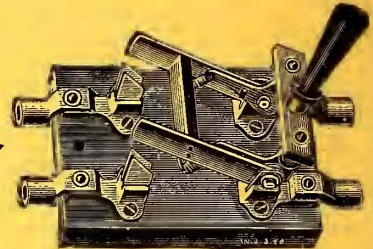
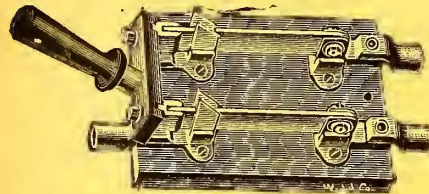
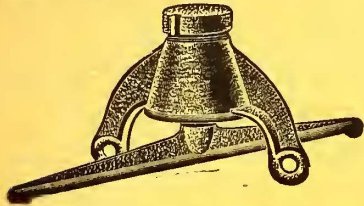
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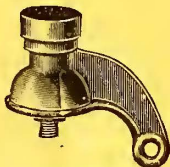
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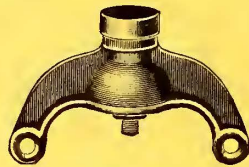
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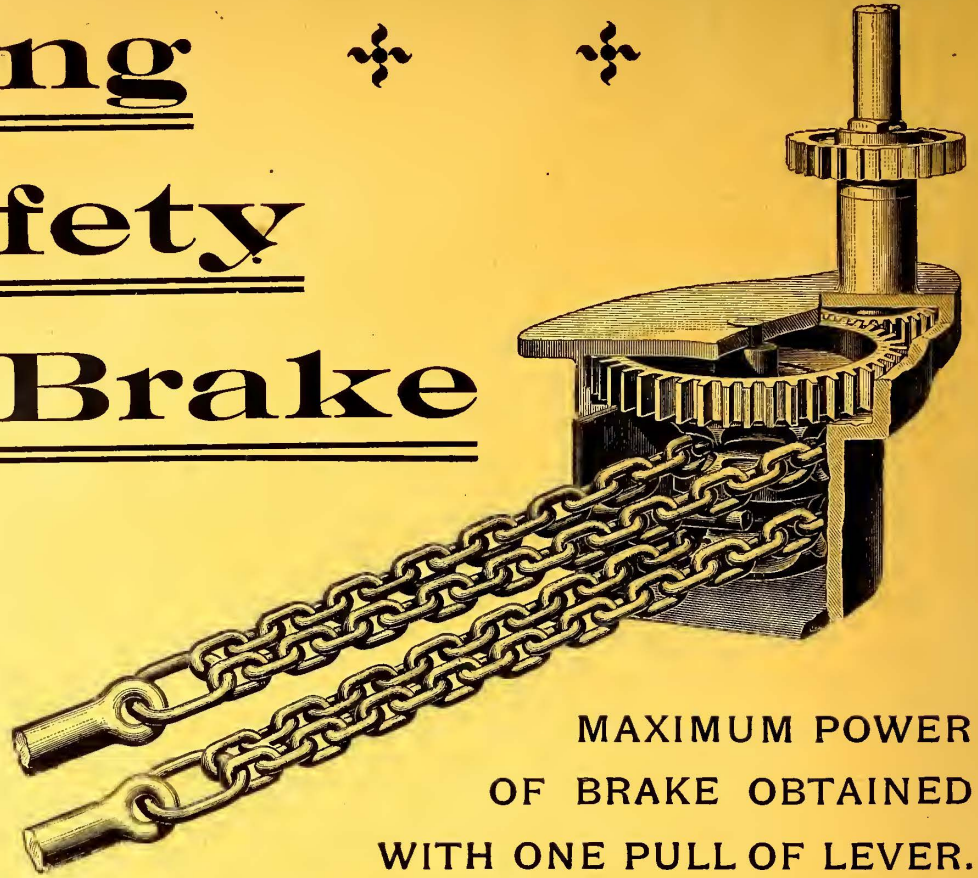
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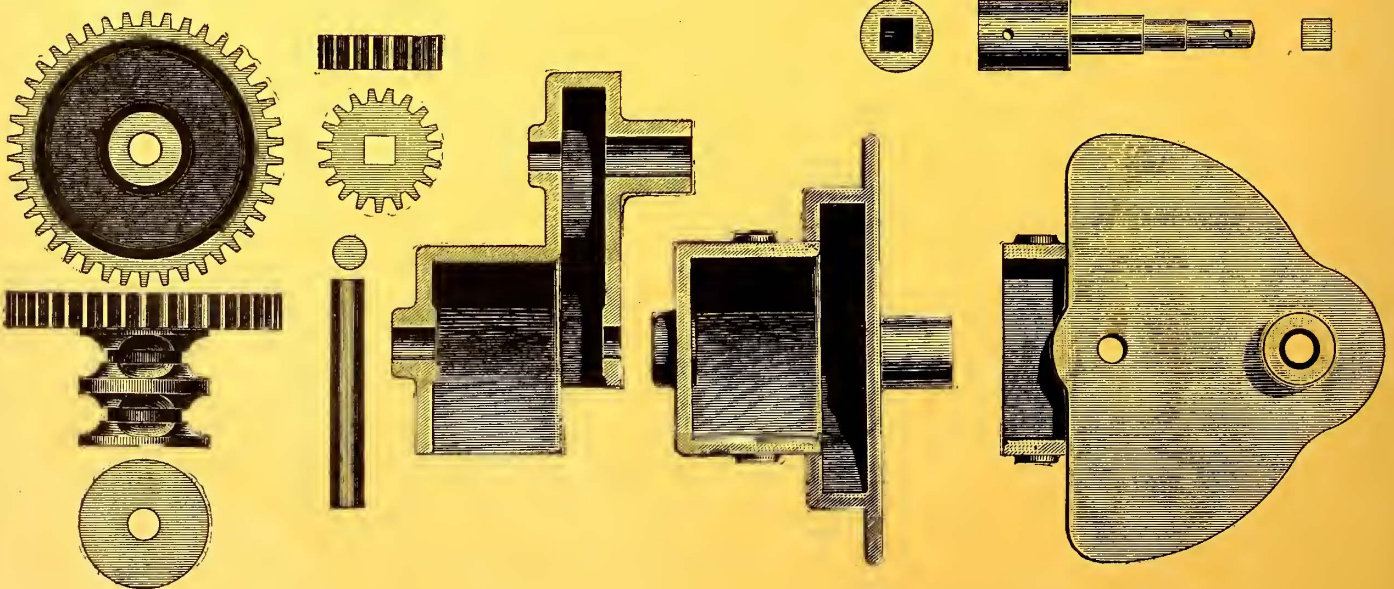
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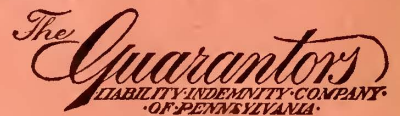
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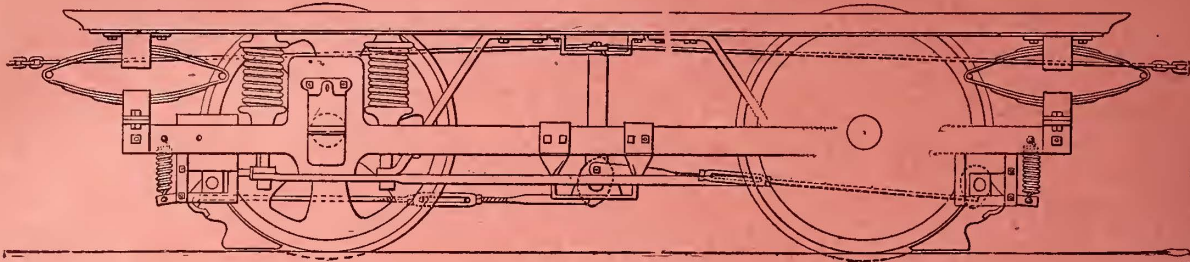


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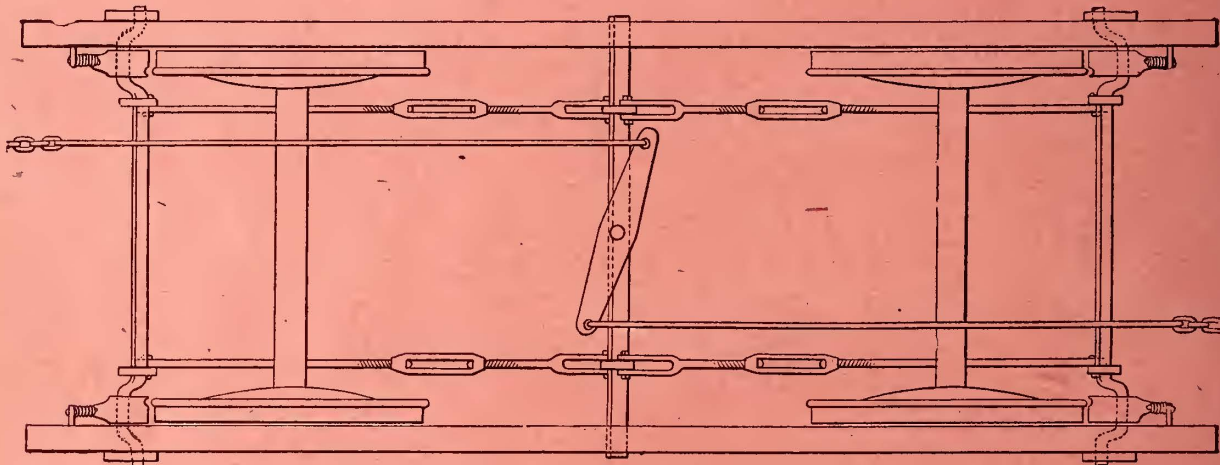


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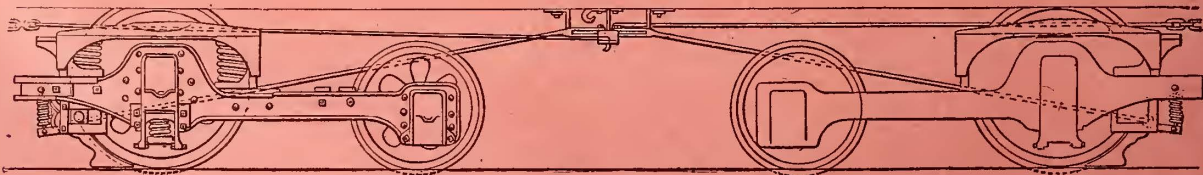


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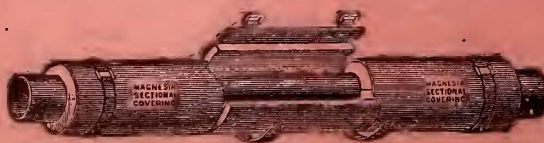
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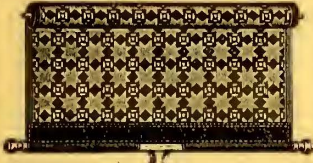
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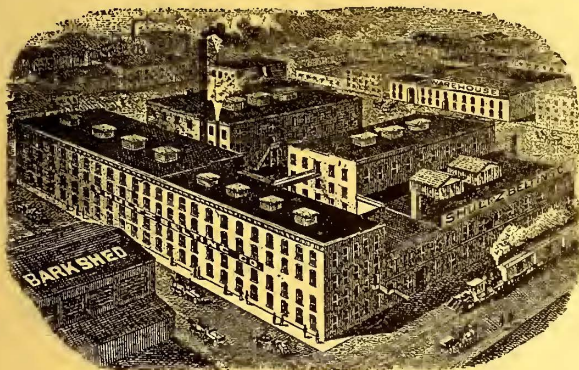
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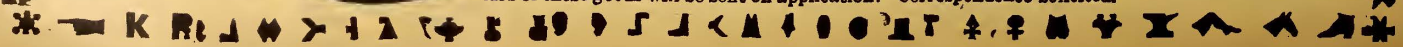


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DIRECTORY OF STREET RAILWAYS IN THE UNITED STATES AND CANADA.

COMPILED FROM DATA FURNISHED THE EDITORS OF THE "STREET RAILWAY JOURNAL,"
BY THE OFFICERS OF THE VARIOUS ROADS.

Officials of Street Railways are earnestly requested to observe whether their roads are properly represented in this directory, and if not to send us the facts to make every item correct. For use in any issue, directory matter must reach us by the 13th of the preceding month.

ABBREVIATIONS.—m, miles of track; m s, miles of street; g, gauge; lb r, pounds rail to the yard; c-b r, center-bearing rail; s-b r, side-bearing rail; c, cars; m. c, motor cars; t. c, trolley cars; g. c, grip cars; h, horses; mu, mules.
Officers' addresses are the same postoffice as the company unless otherwise specified.
The figures of track mileage mean entire length of single track, counting one mile of double track as two of single, and counting switches as additional length.
For financial details of the various roads see "American Street Railway Investments," a Supplement to the "Street Railway Journal."

A

ADRIAN, MICH.—Adrian City Electric Belt Ry Co. Elec. 2.8 m, 4-8½ g, 38 lb T r, 4 c, of which 3 are m. c. and 1 t. c. Detroit system. Receiver F. E. Snow. Pres. S. E. Graves. V. Pres. W. A. Jackson, Sec. C. Barker, Treas. M. E. Chittenden. Office, 25 S. Main st. 1 5 s

ADRIAN ST. R. R. CO. 3 m, 4-8½ g, 38 lb T r, 7 c, of which 5 are m. c. and 2 t. c. Gen. Elec. system. Jones and Pullman cars. Lansing engines. Receiver, F. E. Snow. Supt. C. T. Yedder. Office, 38 W. Maumee St. 9 5

AKRON, O.—Akron St. Ry. Co. 30 m, 19 m s, 4-8½ g, 50, 70 lb girder r, 30 m c. Walker and Edison systems. Pres. J. F. Seiberling, V. Pres. I. M. Miller, Sec. & Treas. F. A. Seiberling, Gen. Supt. W. D. Chapman. 1 5 s

Akron, Bedford & Cleveland R. R. Co.—(See Cleveland, O.)

Akron & Cuyahoga Falls Rapid Transit Co. 27 m, 4-8½ g, 50, 80 lb T and girder r. 28 m c. Gen. Elec. system. Brill, Pullman and Barney & Smith cars. Pres. Gen. Man. & Pur. Agt. T. F. Walsh, Supt. C. A. Blen, Elecn. S. B. Crane, Ch. Engr. of power station, C. Cummins. 11 5

ALAMEDA, CAL.—Alameda, Oakland & Piedmont Electric R. R. Co. 18 m, 4-2 g, 46 lb girder r, 16 m c. Gen. Elec. system. Ingler & Atkinson cars. Ball engines. 416 H. P. Babcock & Wilcox boilers. Pres. & Gen. Man. W. M. Rank, V. Pres. E. S. Denison, Sec. & Treas. T. F. Scanlan, Supt. Pur. Agt. & Elecn. L. Wheeler, Ch. Engr. of power station, G. S. Ames. Office, power house, Webster St. 9 5

ALBANY, GA.—Artesian City R. R. Co. 3½ m, 4-8½ g, 30 lb T r, 2 c, 4 mu. Pres. & Gen. Man. J. M. Tift, Sec. & Treas. W. E. Mitchell. 9 3

ALBANY, ORE.—Albany St. Ry. Co. Steam. 3 m, 3 m s, 3-6 g, 25, 35 lb T r, 3 c. Pullman cars. Porter engines. Pres. W. F. Read, V. Pres. W. Goltra, Sec., Gen. Man. & Pur. Agt. C. G. Burkhart, Treas. S. E. Young, Ch. Engr. Robt. Moore. 9 5

ALBANY, N. Y.—The Albany Ry. 34.3 m, 4-8½ g, 50-90 lb girder r, 100 m c. Gen. Elec. and Westinghouse systems. Gilbert cars. McIntosh & Seymour and Cooper engines. 1,000 H. P. Babcock & Wilcox boilers. Pres. Robt C. Bruyn, V. Pres. Anthony N. Brady, Sec. James McCredie, Treas. Gen. Man. & Pur. Agt. John W. McNamara, Asst. Gen. Man. E. S. Fassett, Ch. Engr. T. E. Murray. Office, 423 Broadway, Albany. 1 5 s

ALEXANDRIA, VA.—Washington, Alexandria & Mt. Vernon Electric Ry. Co. 12 m, 2 m s, 4-8½ g, 60-90 lb T and girder r, 18 c, of which 11 are m. c. and 7 t. c. Gen. Elec. system. Brill and own cars. Providence engines. Pres. & Gen. Man. G. E. Abbott, V. Pres. F. A. Reed, Sec. F. K. Hipple, Treas. D. C. Leech, Supt. & Pur. Agt. D. W. Holden, Ch. Engr. J. M. W. Atlee, Elecn. J. Colvin, Ch. Engr. of Power Station, J. H. Millstead, Sr. 12 4 b e

ALLEGHENY, PA.—Nunnery Hill Inclined Plane Ry. Co. Elec. 1,100 ft, 5 g, 60 lb T r, 2 c, using wire rope and drum. St. Louis cars. Bentley-Knight motors. Pres. & Treas. Oliver P. Scaife, Sec. A. Kennedy, Supt., Pur. A. t. & Ch. Engr. C. D. Helst, Office cor. Fairmount & Federal sts. 1 4

Allegheny Traction Co. 18.5 m, 10 m s, 5-2½ g, 90 lb girder r, 23 c, of which 28 are m. c. and 2 are t. c, 6 h. Gen. Elec. and Westinghouse systems. Laclede and American cars. Lake Erie Engine Works engines. Pres. G. B. Hill, Sec. A. M. Neepner, Gen. Man. G. F. Greenwood, Supt. H. P. Bruce. Office, 103 Fourth Ave., Pittsburgh. 9 5

Federal St. & Pleasant Valley Ry. Co.—(See Pittsburgh.)

Troy Hill Inclined Plane & Bridge Co. 370 ft, 6 g, 60 lb T r, 2 c. Pres. Jas. D. Callery, Sec. C. S. Wright, Treas. Wm. V. Callery, Gen. Man. J. J. Saint, Office, 448 Liberty Ave. 1 4

ALLEN TOWN, PA.—Allentown & Lehigh Valley Traction Co. (Controls and operates Allentown & Bethlehem Rapid Transit Co., Lehigh Valley Traction Co. and Allentown Electric Light & Power Co.) 20 m, 4-8½ g, 60-70 lb T and girder r, 61 c, of which 32 are m. c. and 29 t. c. Gen. Elec. and Steel Motor systems. Brill cars, Cooper engines. Pres. A. L. Johnson, Sec. H. Page, Treas. A. F. Walters. 1 5 s

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ALTON, ILL.—Alton Ry. & Illuminating Co. 6½ m, 4-8½ g, 40, 70 lb T and girder r, 12 c, of which 5

are m. c. and 7 t. c. 10 h. Walker system. St. Louis cars. Buckeye engines. Pres. Treas. & Pur. Agt. J. F. Porter, V. Pres. Jas. Duncan, Sec. W. S. Baker, Jr., Elecn. J. H. Hopkins, Ch. Engr. of power station J. T. King. 9 5

ALTOONA, PA.—Altoona & Logan Valley Ry Co., controls City Pass. Ry of Altoona, 18.70 m, 5 m s, 5-3 g, 56 and 72 lb T and girder r, 33 c, of which 21 are m. c. 12 t. c. and 2 double deck cars. Gen. Elec. system. Brill and St. Louis cars. Altoona Mfg Co. engines. Pres. John Lloyd, Sec. & Treas. C. A. Buch, Ch. Engr. A. C. Shand, Elecn. W. H. Markland, 3 5 s d e

City Pass. Ry. Co. of Altoona Pa. (Controlled by Altoona & Logan Valley Electric Ry Co.), 6½ m, 5-3 g, 48½-72 lb girder r, 25 c, of which 19 are m. c. and 6 t. c. Gen. Elec. and Westinghouse systems. Brill and Lamokin cars. Altoona Mfg. Co. engines. Pres. J. Lloyd, Sec. & Treas. C. A. Buch, Elecn. W. H. Markland. Office, Chestnut av. below First st. 3 5 s d e

AMERICUS, GA.—Americus St. Ry. Co. Elec 5½ m, 4-8½ g, 35 lb T r, 6 m c. T-H system. Owners T-H Co. 8 3

AMES, IA.—Ames & College Ry. Co. 2½ m. Steam 4-8½ g, 30 lb T r, 2 c, 2 steam motors. Pres. E. W. Stanton, V. Pres. D. S. Fairchild, Sec., Gen. Man., Supt. & Pur. Agt. M. K. Smith, Treas. B. J. Shelden. 1 4

AMESBURY, MASS.—(See Haverhill, Mass and Newburyport, Mass.)

AMSTERDAM, N. Y.—Amsterdam St. Ry. Co. 7.54 m, 5 m s, 4-8½ g, 48½ lb girder r, 13 c, of which 10 are m. c. and 3 t. c. Gen. Elec. system. Stephenson and Lewis & Fowler cars. Ball engines. Pres. J. H. McClement, Sec. & Treas. T. D. Mossrop, Gen. Man. Pur. Agt. Ch. Engr. & Elecn. G. Morgan, Supt. C. B. Rynex. Office of Supt. 102 E. Main St., Amsterdam. 9 5

ANACONDA, MONT.—Electric Ry., Light & Power Co. 5½ m, 4-8½ g, 35 & 50 lb T r, 4 motors, 10 c, of which 4 are m. c. and 6 t. c. T-H system. Water power. Pres. M. Daly, Supt. C. R. Holmes. 4 4

ANDERSON, IND.—Anderson Electric St. Ry Co. 11m, 11 m s, 4-8½ g, 40, 50, 60 lb T r, 22 c, of which 10 are m. c. and 12 t. c. Westinghouse system. St. Louis and Stephenson cars. Allis engines, Pres., Treas. & Gen. Man. C. L. Henry, V. Pres. J. F. Wild, Supt. L. Cox, Elecn. C. Berry, Ch. Engr. of Power Station F. L. Clifford, Office, 51½ N. Meridian St. 10 5

ANN ARBOR, MICH.—The Ann Arbor St. Ry Co. Elec, 5½ m, 4-8½ g, 35, 45 lb T and girder r, 12 c, of which 6 are m. c. and 6 t. c. Gen. Elec. system. Brill and Stephenson cars. Taylor and Straight Line engines. Pres. & Gen. Man. J. Winter (Detroit, Mich.), Sec. F. T. Reynolds, Treas. F. H. C. Reynolds (Bangor, Me.). 1 5

Ann Arbor & Ypsilanti St. Ry. Co. Dummy. 9 m 4-8½ g, 40 lb T r, 11 c, of which 5 are pass. c and 6 gravel c, 2 steam motors. Porter engines. Pres. & Gen. Man. J. E. Beal, V. Pres. H. P. Glover, Sec. J. T. Jacobs, Treas. D. L. Quirk, Supt. & Pur. Agt. W. Parker. 12 4

ANNISTON, ALA.—Anniston St. Ry. Co., 8 m, 4-8½ g, 35 lb T r, 12 c 50 h. Pres. & Gen. Man. W. W. Stringfellow, Sec. H. A. Young, Treas. 1st Nat. Bank. 12 4 s

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r. 65 c of which 45 are m. c. and 20 t. c. Gen. Elec. and Westinghouse systems. St. Louis cars. Hamilton-Corliss and Allis engines. Pres. J. H. Haggarty (32 Nassau St., New York), Gen. Man. C. A. Hammond. 10 5

Asbury Park & Belmar St. Ry Co. 1 5 s

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West Asheville & Sulphur Springs Ry. Co. Elec. 6 m, 4-8½ g, 40 lb T and girder r, 6 c, of which 5 are m. c. and 1 t. c. T-H system. Ellis and Stephenson cars. Stillwell-Bierce & Smith-Valle turbines. Rent power. Pres. E. G. Carrier, Sec. Treas. Gen. Man. Supt. & Pur. Agt. J. D. Carrier. 9 4

ASHLAND, KY.—Ashland & Catlettsburg St Ry. Co. 5½ m, 4-8½ g, 45 & 50 lb Johnson girder & T r, 7 c, of which 5 are m. c. and 2 are t. c. Westinghouse and Walker systems. Laclede cars. Rent power. Pres., Gen. Man. & Pur. Agt. W. L. Ringo, Sec. & Treas. John Russell, Jr., Supt. & Elecn. H. Wellman. 9 5

ASHLAND, PA.—Schuylkill Traction Co. (See Girardville, Pa.)

ASHLAND, WIS.—Ashland Lighting & St. Ry. Co. 7 m, 4 m s, 4-8½ g, 48, 60 lb T r, 12 c of which 6 are m. c. and 6 t. c. T-H system. St. Louis and Stephenson cars. Ide engines. Pres. Gen. Man. & Pur. Agt. G. W. Harrison, Sec. & Treas. G. F. Merrill, Elecn. M. Juhl, Ch. Engr. of Power Station A. Anderson. 12 4

ASHTABULA, O.—Ashtabula Rapid Transit Co. 5 m, 5 m s, 4-8½ g, 45, 70 lb girder r, 8 c, of which 5 are m. c. and 3 t. c. Gen. Elec. system. Brill cars. Buckeye and Russell engines. Pres. F. B. Wagner, V. Pres. W. W. Hazzard, Sec. Gen. Man. & Pur. Agt. T. Fricker, Treas. E. W. Savage, Ch. Engr. of power station J. N. Deys. 9 5

Ashtabula City Ry. Co. 4 m, 4-8½ g, 40 lb T r, 9 c, 60 h. Propr. J. N. Stewart, Sec. & Treas. S. C. Stewart, Man. H. H. Stewart. Officers and office at Cleveland, O. 1 3

ASTORIA, ORE.—Astoria St. Ry. Co. Elec. 3 m, 3-6 g, 30 lb T r, 8 c, of which 4 are m. c. and 4 t. c. T-H system. Brownell cars. Pres. J. W. Conn, V. Pres. W. A. Sherman, Sec. & Supt. F. W. Newell, Treas. F. R. Stokes. 4 4

ATCHISON, KAN.—Atchison Ry., Light & Power Co. 7 m, 7 m s, 4-8½ g, 45 lb T r, 13 c, of which 8 are m. c. and 5 t. c. Steel Motor Co. and Gen. Elec. systems. American and St. Louis cars. Sioux City Corliss engines. Pres. R. L. Pease, V. Pres. A. M. Rathburn, Sec. J. W. Orr, Gen. Supt. & Pur. Agt. J. A. Bendure, Ch. Engr. of power station R. Metzler. 9 5

ATHENS, GA.—Athens Electric Ry. Co. 6 m, 6 m s, 4-8½ g, 40 lb T r, 8 m c. Detroit and Gen. Elec. systems. Ball engines. Pres. W. S. Holman, V. Pres. J. Y. Carthers, Sec. & Treas. A. P. Dearing, Gen. Man., Supt. & Pur. Agt. C. D. Flanigan, Elecn. H. M. Hughes. 9 5

ATLANTA, GA.—Atlanta Consolidated St. Ry. Co. 63,805 m, of which .876 are horse, 53,767 elec. and 9,171 steam, 4-8½ g, 40, 45 and 56 lb girder and T r, 97 c, of which 87 are m. c. and 10 t. c. Gen. Elec. system. Brill, Lewis & Fowler, Pullman and Stephenson cars. Cooper-Corliss engines. Pres. J. Hurt, V. Pres. E. Woodruff, Sec. T. K. Glenn, Treas. R. J. Lowry, Gen. Supt. H. N. Hurt, Pur. Agt. W. H. Glenn, Elecn. N. W. L. Brown. 3 5 s

Atlanta Ry. Co. 19 m, 18 m s, 4-8½ g, 50, 48 lb T and girder r, 31 c, of which 23 are m. c. and 8 t. c. Westinghouse and Gen. Elec. systems. Brill and American cars. Russell engines. Pres. M. F. Amorous, V. Pres. Jacob Hass, Sec. J. W. Kimball, Treas. S. H. Bennett, Supt., Pur. Agt. & Elecn. F. M. Zimmerman, Ch. Engr. of Power Station J. T. Chambers. Office, 16 Forsyth St. 12 5

Collins Park & Belt R. R. Co. Elec. 15 m, 4-8½ g, 56 lb T r, 9 m c. Short system. Brill cars. Allis engines. Receiver & Man. J. W. Darr. P. O. Box 641. 2 4

Lithia Springs Ry. Co. 6 m, 6 m s, 4-8½ g, 60 lb T and girder r, 5 m c. Balm system. Rent power. St. Louis cars. Pres. H. Camp, V. Pres. & Gen. Man. B. F. Curtis, Sec. & Treas. T. Camp. 1 4

ATLANTIC CITY, N. J.—Atlantic City Electric Ry. (Operated by Pennsylvania R. R. Co.) 17 m, 7 m s, 4-9 g, 60 lb T and girder r, 62 c, of which 43 are m. c. and 19 t. c. Gen. Elec. and Westinghouse systems. Brill cars. Armstrong & Sims engines. Officers same as Penna R. R. Co. Gen. Foreman, W. K. McAllister. 9 5

ATLANTIC HIGHLANDS, N. J.—Atlantic Highlands, Red Bank & Long Branch Electric Ry. Co. 15 1/2 m, 15 1/2 m s, 4-8 1/2 g, 70 lb T r, 12 c, of which 8 are m. c. and 4 t. c. Gen. Elec. and Westinghouse systems. Jackson & Sharp and Barney & Smith cars. Hamilton Corliss engines. Pres. D. S. Arnott, V. Pres. B. Frick, Sec. & Treas. A. B. Eldridge. 9 5

ATTLEBORO, MASS.—Attleboro, N. Attleboro & Wrentham St. Ry. (Owned by Union R. R. Co., of Providence.) 6 1/2 m, 4-8 1/2 g, 40 lb T r, 17 c, of which 9 are m. c. and 8 are t. c. T-H system. Pres. H. M. Daggett, Jr., Treas. C. T. Guild. 1 4

AUBURN, N. Y.—Auburn City Ry. Co. Elec. 5 1/2 m, 5 m. s., 4-8 1/2 g, 45 lb T r, 14 c, of which 11 are m. c. and 3 t. c. 5 h. T-H system. Jones, Rogers and Stephenson cars. McIntosh & Seymour engines. Pres. C. D. Beebe, V. Pres. G. Underwood, Sec. & Treas. Thos. Craig, J. E. Storke, Pur. Agt. Ch. Engr. Elec. & Ch. Engr. of Power Station, R. A. Dyer, Jr. 9 5

AUGUSTA, GA.—Augusta Ry. Co. 25 1/2 m, 15 m s, 4-8 1/2 g, 35.54 lb T & girder r, 50 c, of which 32 are m. c. and 18 t. c. Gen. Elec. system. Brill and Stephenson cars. Corliss engines. 550 H. P. Babcock & Wilcox boilers. Receiver & Pres. D. B. Dyer, Sec. C. B. Reavis, Treas. G. H. Conklin, Supt. Pur. Agt. & Elec. W. E. Moore. Office, Jarvis-Conklin building. 9 4 3

AUGUSTA, ME.—Augusta, Hallowell & Gardiner R. R. Co. 8 m, 7 1/2 m s, 4-8 1/2 g, 40 lb T r, 15 m c. Gen. Elec. system. Newburyport and Briggs cars. Corliss engines. Pres. J. M. Haynes, Sec. H. G. Staples, Treas. & Gen. Man. G. E. Macomber, Supt. W. G. Meloon, Ch. Engr. of Power Station Geo. Perkins. Office, Hallowell, Me. 9 5

AURORA, ILL.—Aurora St. Ry. Co. 18 m, 14 m s, 4-8 1/2 g, 67 lb T and girder r, 25 m c. Walker system. American and Gilbert cars. Straight line engines. 832 H. P. Babcock & Wilcox boilers. Pres. & Treas. R. B. Dodson, V. Pres. H. C. Tinker, Sec. J. Zaller, Gen. Man. & Pur. Agt. A. D. Aelden, Ch. Engr. of Power Station, A. L. Hadin. 9 5

AUSTIN, TEX.—Austin Rapid Transit Ry. Co. 13 1/2 m, 9 m s, 4-8 1/2 g, 35 lb T r, 20 c, of which 12 are m. c. and 8 t. c. Gen. Elec. system. Laclede cars. Rent power. Pres. F. H. Wauriss, V. Pres. I. H. Evans, Sec. Gen. Man. Supt. Pur. Agt. & Elec. F. D. Rusling, Treas. E. P. Wilmott. 9 5

B

BABYLON, N. Y.—Babylon Street Ry. Co. 1.53 m, 4-9 g, 60 lb T r, 4 c, of which 3 are box and 1 is open, 3 h. Pres. W. F. Norton, Sec. Jos. F. Sammis Treas. John R. Reid, Supt. David S. Sammis. 1 4

BAKER CITY, ORE.—Baker City St. Ry. & Motor Co. 2 1/2 m, 3-5 1/2 g, 30 lb T r, 2 1/2-wheel box c. 6 h. Pres. Gen. Man. & Supt. C. L. Palmer, Sec. M. D. Abbott, Treas. L. W. Place. 3 5 s

BALTIMORE, MD.—Baltimore City Pass. Ry. Co. 47 m, of which 21 are cable and 26 elec. 5-4 1/2 g, 75 lb r, 194 c, of which 72 are g. c, 50 m c and 72 t. c. Westinghouse system. Brill and Stephenson cars (cable). Allis engines. Pres. W. S. Franklin, Sec. H. P. Smith, Treas. A. B. Clark, Gen. Man. & Ch. Engr. F. L. Hart, Elec. J. H. Gibson. Office, 2552 Madison Ave. 7 5

Baltimore Traction Co. (Includes N. Baltimore Pass. Ry., Baltimore & Curtis Bay St. R. R. Co., Walbrook, Gwynn Oak & Powhatan R. R. Co., Balti- more & Powhatan Ry. Co., Citizens' Ry. Co., People's Ry. Co., Pimlico & Pikesville Ry. Co., and Arlington & Pimlico Ry. Co.) 78.47 m, of which 23.99 are horse, 15.3 cable and 39.58 elec. 5-4 1/2 g, 60 and 80 lb girder and T r, 225 c, of which 100 are h. c, 60 g. c, 30 m c and 35 t. c. 831 h. Westinghouse system. Brownell and Lewis & Fowler cars. Corliss, McIntosh & Seymour and Westinghouse engines. Pres. F. Brown, V. Pres. J. S. Hagerty, Sec. J. C. Bowerman, Treas. F. S. Hambleton, Gen. Man. Wm. A. House, Jr., Ch. Engr. F. H. Hambleton, Elec. T. A. Cross. Office, Druid Hill Ave. Extension, Clifton. 2 5 s

Belt Line—Baltimore & Ohio Railroad Co. 6 m, 85 lb T r, 2 elec. locom. Pres. C. F. Mayer, Supt W. D. Young. 11 5

Central Pass. Ry. Co. Elec. 13 m, 6 1/2 m s, 5-4 1/2 g, 50 lb girder r, 40 c, of which 30 are m. c. and 10 t. c. T-H system. Brill and Stephenson cars. McIntosh & Seymour engines. Pres. G. Blakistone, Sec. P. Thompson, Treas. & Pur. Agt. N. H. Bell, Supt. J. Hopps, Ch. Engr. of Power Station, J. Burnett. Office 503 E. Preston st. 9 4

City & Suburban Ry. Co. Elec. (Includes Lake Roland Elevated Ry., Union Pass. Ry., York Road Ry., Baltimore, Catonsville & Elliott's Mills Ry. and Highlandtown & Point Breeze Ry.) 61 m, of which 5 are horse and 55 elec., 5-4 1/2 g, 25, 45, 65 lb T and girder r, 265 c of which 100 are h. c, 135 m c and 30 t. c, 40 lb. Gen. Elec. system. Brill, Lewis & Fowler, Laclede and Stephenson cars. McIntosh & Seymour engines. Pres. N. Perlin, V. Pres. G. C. Jenkins, Sec. L. Fender, Treas. E. J. D. Cross, Gen. Man. J. F. Heyward, Pur. Agt. F. D. Shaffer, Elec. & Mech. Engr. J. B. Scott, Ch. Engr. of Construction F. H. Sloan, Mast. Mech. S. B. Thompson. Office York Road & Carroll Ave. 5 5

Lake Roland Elevated Ry. Co. (Operated by City & Suburban Ry. Co.) 22.68 m, 13 m s, 5-4 1/2 g, 52, 66 T and Duplex r, 52 m c. Gen. Elec. system. Fowler, Lewis & Fowler and Pullman cars. Corliss engines. Pres. N. Perlin, V. Pres. J. Jenkins, Jr., Sec. & Treas. E. J. D. Cross. Office, Roland Park. 5 5

Pikesville, Reisterstown & Emory Grove R. R. Co. 12 m, 10.5 m s, 5-4 1/2 g, 56 lb T & girder r, 10 m c. Westinghouse system. Jackson & Sharp cars. Ball engines. Pres. H. A. Parr, V. Pres. & Gen. Man. G. R. Webb, Sec. R. H. Cox, Treas. J. W. Middendorf, Supt. Wm. Ferry, Engr. W. D. McQueenen. Main Office, Owings, Mills, Md.; branch office, 408 Equita- b.e building, Baltimore. 9 5

BANGOR, ME.—Bangor St. Ry. (Owned and operated by Public Works Co.) 9 1/2 m, 4-8 1/2 g, 50 lb T r, 26 c, of which 23 are m. c. and 3 t. c. Gen. Elec. system. Newburyport cars. Pres. F. M. Laughton, Sec. Treas. & Gen. Man. J. H. Cutler, Supt. Ry. Dept. & Pur. Agt. J. H. Green, Elec. H. White, Ch. Engr. J. G. Kimball, Office, Centre st. 9 5

Bangor, Orono & Oldtown Ry. Co. 14.5 m, 48 lb T r, 14 m c. Westinghouse and Gen. Elec. systems. Briggs cars. Pres. A. F. Gerard, Treas. I. C. Libby, Supt., Pur. Agt. & Elec. I. L. Metoon. 11 5

BATH, ME.—Bath St. Ry. Co. Elec. 4 1/2 m, 4 m s, 4-8 1/2 g, 50 lb T r, 10 c, of which 8 are m. c. and 2 t. c. Westinghouse and Walker systems. Lewis & Fowler and Newburyport cars. Ball & Wood engines. Pres. G. C. Moses, Sec. C. L. Low, Treas. Gen. Man. & Pur. Agt. F. H. Twitchell, Supt. C. E. Gahan, Ch. Engr. W. A. Day, Elec. F. P. Lord, Ch. Engr. of Power Station, J. Thurlow. 9 5

BATON ROUGE, LA.—Baton Rouge Electric Ry. Co. 5 1/2 m. Gen. Elec. system. Pres. B. F. Meyer, Sec. O. P. Steel, Treas. W. J. Knox. 4 4

Home Electric Co. 4 m, 4 1/2 g, 48 lb T r, 6 m c. Gen. Elec. system. St. Louis cars. Buckeye engines. Pres. S. G. Laycock, V. Pres. C. J. Barrow, Sec. & Treas. W. F. Knox, Gen. Man. Pur. Agt. Ch. Engr. & Elec. J. B. Crossland. 10 5

BATTLE CREEK, MICH.—Citizens' St. Ry. Co. 7 1/2 m, 7 m s, 4-8 1/2 g, 45, 60 lb T r, 13 c, of which 8 are m. c. and 5 t. c. Gen. Elec. system. St. Louis cars. Williams engines. Pres. L. N. Downs, Sec. Gen. Man. & Pur. Agt. E. E. Downs, Treas. F. N. Rowley. Office, 215 Marshall St. 1 5 s

BAY CITY, MICH.—Bay Cities Consolidated Ry. Co. (Covering Bay City and West Bay City.) 28 m, 23 1/2 m s, 4-8 1/2 g, 62 lb T r, 49 c, of which 35 are m. c. and 14 t. c. Westinghouse system. Brill, Illinois and Stephenson cars. Hamilton-Corliss engines. Pres. W. B. McKinley, V. Pres. R. S. Hunter, Sec. W. S. Hood, Treas. McFarland, Gen. Man. & Pur. Agt. C. C. Hush, Supt., Elec. & Ch. Engr. of Power Station C. L. Harry, Ch. Engr. G. W. Cawkins. 9 5

BAY RIDGE, MD.—Arundel on the Bay R. R. (Operated by Chesapeake & Columbia Investment Co.) Steam 2 m, 4-8 1/2 g, 30 lb T r, 4 c, 1 engine. Brill cars, Rhode Island loc. Pres. T. W. Smith, V. Pres. W. P. C. Hazen, Sec. L. Cavanaugh. Office, 1st and Ind. Ave., Washington, D. C. 1 5

BEATRICE, NEB.—Beatrice Rapid Transit & Power Co. 7 1/2 m, 7 1/2 m s, 4-8 1/2 g, 38, 52 lb girder & T r, 8 c, of which 4 are m. c. and 4 t. c. Short and West- ington systems. Laclede cars. Ide engines. Receiver M. C. Steele, Office Cor. Court & 8th Sts. 9 4

BEAUMONT, TEX.—Beaumont St. Ry. Co. 2 1/2 m, 4-8 1/2 g, 25 lb T r, 3 c, 12 mu. Pres. G. W. Carroll V. Pres. W. R. Caswell, Sec., Treas., Gen. Man. & Pur. Agt. J. H. Rachford. 1 4

BEAVER FALLS, PA.—Beaver Valley Traction Co. (Includes Beaver Valley St. Ry. Co., Central Electric St. R. R. Co. and College & Grand View Co.) 12 m, 8 m s, 5-2 1/2 g, 45, 56, 70, 30 lb. girder and T r, 20 c, of which 19 are m. c. and 1 t. c. Gen. Elec. and Westinghouse systems. Brill and New Castle cars. Buckeye engines. Pres. J. M. Buchanan, V. Pres. H. S. McConnell, Sec. W. P. McConnell, Treas. S. P. Stone, Supt. & Elec. F. O. Mason, Ch. Engr. of Power Station H. Supplee. 9 5

BELLAIRE, O.—Bellaire, Bridgeport & Martin's Ferry St. R. Co. (See Bridgeport, O.)

BELLEVILLE, ILL.—Belleville Electric R. R. Co. 3 1/2 m, 4-10 g, 45, 52, 66 lb girder r, 5 c. Gen. Elec. system. St. Louis cars. Westinghouse engines. Pres. J. A. Day, V. Pres. H. A. Kircher, Sec. & Treas. G. Gauss. 9 5

BELLEVILLE, ONT.—Belleville Traction Co. 2 m, T r, 4 m c. Gen. Elec. system. Can. Gen. Elec. cars. Brown engines. 9 5

BELLEVUE, N. Y.—Buffalo, Bellevue & Lancaster Ry. Co. 15 m, 13 1/2 m s, 4-8 1/2 g, 45, 94 lb girder r, 24 c, of which 10 are m. c. and 14 t. c. Gen. Elec. system. Brill and Stephenson cars. Ball engines. 190 H. P. Babcock & Wilcox boilers. Pres. H. W. Box, Sec. L. F. Messer, Treas. J. L. Williams, Supt. & Pur. Agt. R. E. Danforth, Ch. Engr. & Ch. Engr. of Power Station W. A. Davison, Elec. F. D. Jackson. 1 5 s

BENNINGTON, VT.—Bennington & Woodford Electric R. R. Co. 4 1/2 m, 4-8 1/2 g, 48 lb T r, 6 c, of which 3 are m. c. and 3 t. c. Gen. Elec. system. Brill cars. Buckeye engines. Pres. C. J. Cushman, V. Pres. D. H. Gorton, Sec. H. Mason, Treas. C. F. Keefe, Gen. Man., Supt. & Pur. Agt. H. W. Martin. 9 5

BERKLEY, VA.—The Berkley St. Ry. Co. 2 m, 2 m s, 4-8 1/2 g, 20 & 42 lb c. b., T r, 7 c, 11 h, 7 mu. Jones and Stephenson cars. Pres. T. H. Synon, Sec. Treas. & Gen. Man. W. Tillotson. 1 4

BIDDEFORD, ME.—Biddeford & Saco R. R. Elec. 6.03 m, 5.73 m s, 4-8 1/2 g, 35 lb T r, 18 c, of which 4 are 4-wheel box 7 m c and 7 t. c. Gen. Elec. system. Jones cars. Westinghouse engines. Pres. E. F. Banks, Sec. & Treas. Chas. H. Prescott, Supt. W. A. Worthington, Ch. Engr. J. Hunt, Jr. Office, 154 Main st. 1 5 s g. e.

BINGHAMTON, N. Y.—Binghamton R. R. Co. (Operates all roads in the city) 27.75 m, 22.25 m s, 4-8 1/2 g, 35 to 94 lb T and girder r, 80 c, of which 70 are m. c. and 10 t. c. 5 h. Gen. Elec. system. Laclede and Stephenson cars. Ball & Wood engines. Pres. G. T. Rogers, V. Pres. J. B. Landfield, Sec. C. O. Root, Treas. J. B. Rogers, Gen. Man. Supt. & Pur. Agt. J. P. E. Clark, Ch. Engr. of Power Station H. R. Bowen, Elec. W. Merritt. Office, Power Station. 9 5

BIRMINGHAM, ALA.—Birmingham Ry. & Electric Co. (Owns Bessemer & Birmingham R. R. Co., Birmingham Union Ry. Co. and Ensley Ry. Co.) 58 m, of which 1 1/2 are horse, 41 1/2 steam, and 15 elec. 4 1/2 g, 40-58 lb T and girder r, 74 c, of which 2 are h. c, 24 m c. and 12 t. c. and 36 steam c, 8 h. Gen. Elec. system. Rent power. Pres. A. M. Shook, 1st V. Pres. & Gen. Man. R. Jamison, 2d V. Pres. W. A. Walker, Sec. & Treas. Jas. A. Stratton, Supt. & Pur. Agt. J. B. McClary, Elec. G. H. Harris. Office. 303 N. 20th St. 9 5

East Birmingham R. R. Co., 7 m, 7 m s, 4-8 1/2 g, 30 lb T r, 10 c 3 dummies. Brill cars. Porter engines. Agent for bondholders J. Douglas. 12 4

Highland Ave. & Belt R. R. Co. 29 m, 4-8 1/2 g, 40 lb T r and 14 pass. c, 9 engines. Leased to W. E. Anger. 12 4

North Birmingham St. R. R. Co. (Leased to V. T. Brown.) 4 m, 4 m s, 4-8 1/2 g, 36 lb r, 8 c 4 dummies. Pres. E. M. Tutwiler, Sec. & Treas. M. F. Gorman. 9 5

BLOOMFIELD, N. J.—Newark & Bloomfield R. R. (See Newark, N. J.)

BLOOMINGTON, ILL.—The Bloomington City Ry. Co. 11 m, 11 m s, 4-8 1/2 g, 45, 47 lb T r, 25 c, of which 15 are m. c. and 10 t. c. Westinghouse and Short systems. St. Louis cars. Buckeye engines. Pres. John J. Patterson, V. Pres. Sec., Treas. Gen. Man. & Pur. Agt. W. H. Patterson, Elec. D. Barclay, Ch. Engr. of Power Station C. Maguire. 4 4

BLOUNTSVILLE, ALA.—Blountsville & Bangor Dummy Line. 2 m, 12 c. Pres. A. E. Fields, V. Pres. W. Fenley, Sec. J. I. Montgomery, Treas. F. M. Boncliff, Gen. Man. E. L. Blalock, Supt. C. Fenner, Pur. Agt. Prof. Duberry, Ch. Engr. J. E. Blackwood, Elec. W. D. Short, Ch. Engr. of Power Station W. D. Powers. 9 5

BOISE CITY, IDAHO.—Boise City Rapid Transit Co. Elec. 3 m, 3 m s, 4-8 1/2 g, 35 lb T r, 2 m c. Gen. Elec. system. Water power. Brill cars. Pres. & Pur. Agt. G. Ainslie, V. Pres. D. Arnold, Sec. J. Spofford, Treas. & Gen. Man. G. D. Ellis, Elec. C. Hutchison. Office Main and 7th Sts. 11 5

BOONE, IA.—Boone Electric St. Ry. Light & Power Co. 1 1/2 m, 3 g, 22 lb T r, 3 c. 9 h. Pres. L. W. Reynolds, V. Pres. D. N. De Tar, Sec. Gen. Man. & Supt. S. T. Stanfield, Treas. C. E. Rice. 1 4

BOSTON, MASS.—West End St. Ry. Co. (In- cludes Boston & Chelsea, Malden & Melrose, Somer- ville, 272.894 m, of which 60.43 are horse and 212.46 are elec., 258.13 m s, 4-8 1/2 g, 50 to 100 lb. tram and girder r, 1,115 c, of which 606 are h. c, 1,509 m c, 1,223 h. Gen. Elec. and Westinghouse systems. Brownell, Ellis, Jones, Pullman, Newburyport, St. Louis and West End cars. Allis, Armstrong & Sims and McIntosh & Seymour engines. 12,000 H. P. Bab- cock & Wilcox boilers. Pres. S. Little, V. Pres. P. Cummings, Treas. J. H. Goodspeed, Gen. Man. J. E. Rugg, Asst. Gen. Man. & Elec. P. Winsor, Auditor, H. L. Wilson, Pur. Agt. H. F. Woods, Mast. Mech. & Ch. Engr. of Power Station C. F. Baker. Office, 81 Milk St. 9 5 k e

Boston & Revere Electric St. Ry. Co. 4-23 m, 3.8 m s, 4-8 1/2 g, 56 lb T r, 16 c, of which 6 are 4-wheel open m. c. and 10 are 4-wheel open t. c. Gen. Elec. system. Pres. & Man. Washington G. Benedict, Sec. & Treas. Ellery I. Garfield. Office, 180 Summer St. 11 2 s

East Middlesex St. Ry. Co. 18.3 m, of which 12.3 are horse and 6 elec, 4-8 1/2 g, 42.70 lb r, 48 c, of which 39 are h. c and 9 m c, 185 h. Pres. Amos F. Breed, Sec. L. F. Arnold, Treas. D. F. Sweetser, Supt. J. E. Sewall. Office, 35 Congress st., Boston. 12 2 s

Gloucester, Essex & Beverly St. Ry. Co. (See Gloucester, Mass.)

Lynn & Boston. (See Lynn, Mass.)

North Shore Traction Co. (See Lynn, Mass.)

BOWLING GREEN, KY.—Park City Ry. Co. 4 1/2 m, 4 m s 4-8 1/2 g, 30, 56 lb T r, 12 c, of which 5 are m. c. and 7 t. c. Laclede cars. Com. Electric system. Buckeye engines. Pres. I. B. Wilford, V. Pres. W. R. Vaughan, Sec., Gen. Man. & Act'g Supt. M. H. Crump. 9 5

BRADDOCK, PA.—Braddock Electric Ry. Co. 4 1/2 m, 5-2 1/2 g, 48 1/2 lb Johnson girder r, 5 m. c. Short system. New Castle cars. Ball engines. 164 H. P. Babcock & Wilcox boilers. Pres. A. L. Sailor, V. Pres. J. P. McKelvey, Sec., Treas. & Man. C. F. Ellis. Office, Bell Ave. 9 5

Braddock & Turtle Creek St. Ry. Co. (Consolidated with Second Avenue Traction Co., Pittsburg.) 4 5 s

BRADFORD, PA.—Bradford & Kendall Pass. Ry. Co. 1 1/2 m, 4-8 1/2 g, 35 lb T and flat r, 2 c, 5 h. Pres. & Gen. Man. W. S. Wales, Sec. & Supt. M. F. King, Treas. G. S. Wales. 12 4 s

BRANTFORD, CAN.—Brantford St. Ry. Co. 8 1/2 m, 8 1/2 m s, 4-8 1/2 g, 40, 56 lb T r, 12 c, of which 10 are m. c. and 2 t. c. Gen. Elec. system. Patterson & Corbin and Can. Gen. Elec. cars. Goldie & McCulloch engines. Pres. F. Nicholls, V. Pres. H. P. Dwligh, Sec. W. S. Andrews, Gen. Man. & Pur. Agt. J. F. Madden, Supt. & Elec. John Watts. 9 5

BRATTLEBORO, VT.—Brattleboro Street R. R. Co. 4.75 m, 4-8 1/2 g, 48, 56 lb T r, 6 m c. Westinghouse system. Wason and Jackson & Sharp cars. Pres. Gen. Man. & Pur. Agt. E. C. Crosby, V. Pres. E. S. Waterman, Sec. & Treas. F. S. Hunt, Supt. N. H. Noyes, Ch. Engr. W. Carty, Ch. Engr. of Power Sta- tion, F. Taft. 11 5

BRIDGEPORT, CONN.—Bridgeport Traction Co. (Controls Bridgeport Ry., Bridgeport Horse R. R. and East End Ry. companies.) 45 m, 4-8 1/2 g, 70-90 lb T and girder r, 111 c, of which 20 are h. c and 90 m c, 5 h. Gen. Elec. system. Barney & Smith and Stephenson cars. Green and Watts-Campbell en- gines. Pres. & Supt. A. Radel, V. Pres. H. M. Dore- man, Sec. T. L. Watson, Treas. W. Scheerer. 9 5 s

BRIDGEPORT, O.—Bellaire, Bridgeport & Martin's Ferry St. R. R. Co. 11 1/2 m, 10 1/2 m s, 5-2 g, 63, 83 lb girder r, 17 m c, 2 h. Gen. Elec. and West- ington systems. Jewett and New Castle cars, Buckeye engines. Pres. & Gen. Man. J. K. Jolly, V. Pres. F. L. Jolly, Sec. Treas. & Pur. Agt. J. W. Fowler, Supt. J. G. Owey, Elec. J. W. Berry, Ch. Engr. of Power Station J. W. Williams. 12 4

BRIDGETON, N. J.—South Jersey Traction Co. 17 m, 16 m s, 4-8 1/2 g, 48 lb T r, 16 c, of which 9 are m. c. and 7 t. c. Gen. Elec. system. Brill, Jack- son & Sharp and St. Louis cars. Allis engines. Rent power. Pres. A. Fries, V. Pres. R. W. Clay, Sec. & Treas. W. H. Bacon, Supt. L. H. Robinson, Ch. Engr. of Power Station H. H. Hummel. Office, Pion- eer Building. 9 5

USE ONLY



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BRANCHES:

BOSTON, ELECTRIC GAS LIGHTING CO.

BRIGANTINE BEACH, N. J.—Brigantine Transit Co. 6.25 m, 4-8 1/2 g, 52 lb T r, 10 c, of which 7 are m c and 3 t c. Pres. J. R. Ritter, Sec. G. H. Cook, Treas. W. Hacker, Man. J. T. Skerrett, Audr. R. V. Page. 1 5 s

BRISTOL, TENN.—Bristol Bott Line Ry. Co. 7 m, 4-8 1/2 g, 35 lb T r, 7 c, of which 5 are m c and 2 t c. Short and Gen. Elec. systems. Brill cars. Pres. J. Strong, V. Pres. & Treas. J. L. Stadelman, Gen. Man. W. A. Stadelman, Supt., Pur. Agt. & Elec. S. M. Vance, Ch. Engr. Power Station, J. Gannon. 9 5

BROCKTON, MASS.—Brockton St. Ry. Co. (includes East Side, Brockton & Iolbrook and Whitman Rys). 38 m, 29 m s, 4-8 1/2 g, 40-70 lb T and girder r, 105 c, of which 90 are m c and 15 t c. Gen. Elec. system. Briggs, Brill, Jones, Newburyport and Stephenson cars. Ball engines. Pres. G. H. Campbell, Sec. W. T. Pope, Treas. C. A. Stone, Asst. Treas. H. E. Reynolds, Gen. Man. & Pur. Agt. H. B. Rogers, Elec. E. J. Rauch, Ch. Engr. of Power Station E. C. Baker. Offices, 203 Main st. and 104 Ames Building, Boston. 9 5

BROOKLYN, N. Y.—Atlantic Avenue R. R. Co. of Brooklyn. (Operates Brooklyn, Bath & West End R. R. Co. Controlled by Brooklyn Traction Co.) 56 m, 4-8 1/2 g, 47-90 lb c b and girder r, 468 c, of which 109 are h c, 321 m c and 38 t c, 20 h. Westinghouse system. Brownell, Lewis & Fowler, St. Louis and Stephenson cars. Cooper-Corliss engines. 3,000 H. P. Babcock & Wilcox boilers. Pres. & Gen. Man. H. M. Littell, V. Pres., J. P. Ilsey, Sec. & Treas. B. Frick, Supt. J. C. Cameron. Office, cor. Atlantic & Third aves. 9 5 h e

Brooklyn City & Newtown R. R. Co. Elec. 21.35 m, 11.40 m s, 4-8 1/2 g, 66.98 lb girder r, 279 c of which 168 are m c and 111 t c. Westinghouse system. Brill, Jones, Lewis & Fowler and Stephenson cars. Westinghouse, Church, Kerr & Co. engines. Pres. John N. Partridge, V. Pres. L. Fitzgerald, Sec. & Treas. Duncan, B. Cannon, Supt. & Pur. Agt. John L. Heins, Elec. H. A. Mook, Ch. Engr. of Power Station J. Wallace. General office, 120 Broadway, New York. Executive office, cor. DeKalb & Central aves. 9 5

Brooklyn Elevated R. R. Co. 41.06 m, 16.9 m s, 4-8 1/2 g, 60, 85 lb T r, 290 c, 95 locomotives. Pres. F. Uhlmann, V. Pres. G. W. Wingate, Sec. & Treas. E. Dyer, Jr., Gen. Supt. J. D. Barton, Supt. G. S. Edwards, Ch. Eng. O. F. Nichols. Office, 31 S. Wadsworth st. 1 5 s

Brooklyn Heights R. R. Co. (Lessee of Brooklyn City R. R. and controlled by Long Island Traction Co.) 200.27 m of which 199.1 are, 187.8 elec., and 1.17 cable. 4-8 1/2 g, 50-65 lb tram and girder r, 538 c of which 421 are m c, 109 t c and 8 g c. Gen. Elec. and Westinghouse systems. Brill, Jones, Pullman, St. Louis and Stephenson cars. 16,500 H. P. Babcock & Wilcox boilers. Pres. C. L. Rossiter, V. Pres. E. W. Bliss, Sec. & Treas. T. S. Williams, Supt. Ira A. McCormack, Pur. Agt. H. F. Taylor, Ch. Engr. M. G. Starratt. Office, 168 Montague st. 4 5 s j e

Brooklyn Queens Co. & Suburban R. R. Co. (Includes Broadway Ferry & Metropolitan Ave. R. R. Co., Broadway R. R. Co., Jamaica & Brooklyn R. R. Co.) 44.9 m of which 32.1 are horse and 12.8 elec. 4-8 1/2 g, 259 c of which 230 are h c, 21 m c and 9 t c, 450 h. Gen. Elec. system. Pres. C. M. Englis, V. Pres. & Gen. Man. C. M. Wicker, Sec. I. L. Carroll, Treas. J. G. Jenkins, Jr., Supt. C. E. Harris, Elec. T. M. K. Meikleham. Office, 21 Broadway. 4 5 s

Coney Island & Bklyn R. R. Co. 24.77, 4-8 1/2 g, 60 lb girder and T r, 123 c, of which 61 are m c and 62 t c, 15 h. Gen. Elec. system. 500 H. P. Babcock & Wilcox boilers, Pres. Sec. W. Brower, Treas. W. Vanderhoef, Supt. D. W. Sullivan. Office, cor. Smith & 9th sts. 1 5 s

Kings County Elevated R. R. Co. 19.5 m, 8.36 m s, 4-8 1/2 g, 60, 70 lb T r, 153 c, locomotives 43, Pullman cars. Grant and Rhode Island engines. Pres. J. Jourdan, V. Pres. A. Belmont, Sec. H. J. Robinson, Treas. J. H. Frothingham, Gen. Man. Pur. Agt. & Supt. W. T. Goundie, Ch. Engr. O. F. Balston. Office, 308-7 Washington st. 1 5 s

Nassau Electric R. R. Co. 33 m, 200 cars. Stephenson cars. Cooper engines. 2,500 H. P. Babcock & Wilcox boilers. Pres. A. L. Jonsson. 10 5

Van Brunt St. & Erie Basin R. R. Co. 3 m, 1 1/2 m s, 4-8 1/2 g, 45 lb s b r, 17 c, 42 h. Lewis & Fowler and Stephenson cars. Pres. Michael Murphy, Sec. & Treas. & Pur. Agt. Wyllys Terry, Supt. T. J. Carey. Offices, 264 Van Brunt st. 7 4

BROWNSTOWN, IND.—Brownstown & Ewing St. R. R. Co. 2 m, 5-4 g, T r, 2 c, 8 h, 2 mu. Pres. & Supt. F. Falk, V. Pres. & Sec. W. L. Boyatt, Treas. G. Helms. 12 4

BRUNSWICK, GA.—Brunswick St. R. R. Co. 9 m, 4-8 1/2 g, 48 1/2 lb T and girder r, 15 c, 50 mu, 1 1/2 m on St. Simon's Island, with 2 connecting steamboat lines. Stephenson cars. Owners. A. J. Crovatt, J. E. Dublignon, A. H. Lane, W. O. Allison, Gen. Man. W. E. Recknagel. Office, Newcastle st. 6 3

BUFFALO, ILL.—See Mechanicsburg, Ill.

BUFFALO, N. Y.—Buffalo Railway Co. (Operates Crosstown Ry.) 142.94 m, 4-8 1/2 g, 60.94 lb girder r, 283 c, of which 28 are h c, 194 are m c and 61 t c, 400 h. Gen. Elec. system. Lake Erie engines. 4,500 H. P. Babcock & Wilcox boilers. Pres. Henry M. Watson, V. Pres. & Gen. Man. H. H. Littell, Sec. & Treas. Joseph S. Baecher, Office, 178 Main st., Buffalo. 3 5 s k e

Buffalo & Tonawanda Electric Ry. Co. 6 m, 4-8 1/2 g, 45 lb T & girder r, 8 c, of which 3 are m c and 5 t c. Gen. Elec. system. Pres. E. H. Butler, V. Pres. M. Nellany, Sec. & Treas. C. M. Howard, Supt. W. J. Voorhees. 1 5 s

Buffalo & Williamsville Electric Ry. Co. (See Williamsville, N. Y.)

Buffalo, Tonawanda & Niagara Falls Electric R. R. Co. (See North Tonawanda, N. Y.)

Buffalo, Bellevue & Lancaster Ry. Co. (See Bellevue, N. Y.)

Buffalo, Gardenville & Ebenezer Ry. Co. (See Gardenville, N. Y.)

Buffalo, Kenmore & Tonawanda Electric Ry. Co. 5.99 m, 5.99 m s, 4-8 1/2 g, 56, 72 1/2 lb T and girder r, 4 m c. Gen. Elec. system. Brill cars. Noye Engines. Pres. D. F. Callahan, V. Pres. F. S. Oaks, Sec. & Treas. F. W. Plato, Supt. Pur. Agt. Ch. Engr. Elec. & Ch. Engr. of Power Station H. E. Heller. 4 5 1 e

Buffalo, North Main St. & Tonawanda R. R. Co. Elec. 6 m, 5 1/2 m s, 4-8 1/2 g, 50 lb T r, 4 m c. Gen. Elec. system. Brill cars. Ball engines. Pres. J. O. Carr, Sec. H. M. Francis, Treas. T. H. Fearey, Supt. W. W. Vaughan. 9 5

Buffalo & Niagara Falls Electric Ry. Co. 30 m, 78 lb girder r, 30 m c. Gen. Elec. system. Brill and

Jackson & Sharp cars, Ball engines. Water power. Pres. W. Caryl Ely, Sec. & Treas. H. Dunbar, Gen. Man. B. Van Horn, Supt. J. A. Wilson. 9 5

BURLINGTON, IA.—Burlington Electric Ry. Co. 11 m, 10 m s, 4-8 1/2 g, 40 lb T r, 22 c, of which 15 are m c and 7 t c. Westinghouse system. Stephenson cars. Westinghouse engines. Pres. F. G. Jones, V. Pres., H. C. Garrett, Sec. E. G. McInnes, Treas. J. M. Jones, Supt. & Pur. Agt. C. D. Jones. 4 4

BURLINGTON, VT.—Winooski & Burlington St. Ry. Co. 6 m, 4-8 1/2 g, 50 lb T r, 17 c, of which 12 are m c and 5 t c. Gen. Elec. system. Gilbert & Jones cars. Pres. Elias Lyman, V. Pres. J. A. Powers, Sec. B. H. Eagan, Treas. W. F. Hendee, Supt. T. B. Jones, Elec. F. A. Cole, Ch. Engr. of Power Station C. D. Nash. Office, 182 College st. 12 4 g e

Military Post St. Ry. Co. 5 m, 5 m s, 4-8 1/2 g, 56 lb T r, 6 m c. Gen. Elec. system. Jackson & Sharp cars. Water power. Pres. & Gen. Man. F. C. Kennedy, Sec. C. W. Brownell, Treas. J. J. Flynn, Supt. & Elec. T. L. Harvey, Ch. Engr. F. O. Sinclair, Ch. Engr. Power Station T. E. Smith. 9 5

BUTTE, MONT.—Butte Consolidated Ry. Co. 17 m, of which 1 1/2 are cable and 15 1/2 elec, 3 and 4-1/2 g, 40, 50 lb T r, 22 c, of which 4 are g c, 11 m c and 7 t c. Gen. Elec. system. St. Louis and Stephenson cars. Allis and Fraser & Chalmers engines. Pres. W. A. Clark, V. Pres. W. L. Hoge, Sec. & Treas. A. H. Wethy, Gen. Man. J. R. Wharton, Supt. J. S. Wethy, Ch. Engr. D. Hartnell, Elec. G. Whitcomb. Office, Main and Park sts. 9 5

C

CAIRO, ILL.—The Delta Electric Power, Light & St. Car Co. 4 m, 4-8 1/2 g, 45 lb T r, 6 c, of which 4 are m c and 2 t c. Detroit system. St. Louis cars. Russell engines. Receiver E. A. Budder, Pres. W. Kluge, V. Pres. A. Miller, Sec. & Gen. Man. H. Schuitze, Treas. H. Hasenjaeger. Office 1010 Washington av. 9 5 s

Cairo Electric Ry. Co. 4.86 m, 4.8 m s, 4-8 1/2 g, 40 lb T r, 10 c, of which 8 are m c and 2 t c. Westinghouse system. St. Louis and Laclede cars. Hamilton-Corliss engines. Pres. & Treas. E. W. Holiday, V. Pres. C. O. Potter, Sec. C. Cunningham, Supt. & Pur. Agt. Edwin Halliday, Elec. W. A. Rittenhouse, Ch. Engr. of Power Station, T. O. Schlosser. 9 5

CALAIS, ME.—Calais St. Ry. Co. 7 m, 7 m s, 4-8 1/2 g, 48 lb T r, 8 m c. Westinghouse system. Briggs and Jackson & Sharp cars. Ball engines. Pres. & Gen. Man. G. A. Cuvan, Supt. & Pur. Agt. C. F. Pray. 9 5

CAMDEN, N. J.—Camden, Gloucester & Woodbury Ry. Co. 21.81 m, 5 g, 80 lb girder r, 42 c, of which 12 are m c and 30 t c. Westinghouse system. Lamokin cars. Westinghouse engines. 750 H. P. Babcock & Wilcox boilers. Pres. J. Willard Morgan, Sec. T. P. Curley, Treas. W. J. Thompson, Supt. H. M. Royal. 1 5 s d e

Camden Horse R. R. Co. 32.2m, 5 g, 47, 52, 63 1/2 lb s-b Duplex and girder r, 74 c, of which 28 are h c, 26 m c and 18 t c, 150 h. Gen. Elec. and Westinghouse systems. Brill, Lewis & Fowler and Stephenson cars. Westinghouse and Ball engines. Pres. Wm. S. Scull, V. Pres. B. C. Reeve, Sec. Morris W. Hall, Treas. G. G. Browning, Supt. S. J. Fenner. Office, 307 Market st. 1 5 s

Cape May, Delaware Bay & Sewell's Point Electric Ry. Co. 10.5 m, of which 1.4 are steam and 9.4 elec. 4-8 1/2 g, 45 lb T r, 19 c, of which 6 are steam c, 10 m c and 3 t c. Westinghouse system. Brill, Jackson & Sharp and Lamokin cars. Ball engines. Pres. G. G. Browning, V. Pres. D. Baird, Sec. Gen. Man. Pur. Agt. & Elec. J. J. Buriel, Treas. B. C. Reeves, Supt. J. H. Edmunds. 1 5 s

CANANDAIGUA, N. Y.—Canandaigua Electric Lt. & R. Co. 3 m, 4-8 1/2 g, 42 lb girder r, 5 c of which 2 are m c and 3 t c. Gen. Elec. system. Stephenson cars. Water power. Pres. M. D. Munger, Sec. & Treas. H. B. Ferguson, Gen. Supt., Pur. Agt. & Elec. C. J. Purdy. Office, Phoenix st. 12 4

CANTON, O.—Canton & Massillon St. Ry. Co. 15 1/2 m, 18 1/2 m s, 4 g, 40, 60 lb T r, 67 c of which 40 are m c and 27 t c. Westinghouse system. Brill and Stephenson cars. Russell engines. Pres. & Treas. W. A. Lynch, V. Pres. C. A. Gates, Sec. A. J. Underhill, Supt. & Pur. Agt. T. R. Catlin. Offices, Canton and Massillon. 9 4

CARBONDALE, PA.—Lackawanna Valley Rapid Transit Co. (Operates, owns and controls Carbondale Traction Co. 11 m, and Carbondale & Forest City Pass. Ry. Co., now building, 19 m.) 30 m, 5-2 g, 50, 58, 60 lb T & girder r, 9 m c. Curtis, Fort Wayne, Gen. Elec. and Westinghouse systems. Brill, Jackson & Sharp, New Castle and St. Louis cars. Armstrong & Sims and Frick-Corliss engines. Pres. H. B. Jadwin, Treas. & Gen. Man. J. W. Aitken, Supt. D. J. Duncan. Office, 52 Salem Ave. 9 4

CARTERSVILLE, GA.—Southwest Missouri Electric Ry. Co. (See Webb City.)

CARTHAGE, MO.—Jasper County Electric R. R. Co. 11 1/2 m, 4-8 1/2 g, 48 lb T r, 10 c of which 5 are m c and 5 t c. Walker system. American cars. Bates engines. Pres. W. W. Calhoun, V. Pres. C. F. McElroy, Sec. J. A. Banks, Treas. D. R. Goucher, Supt. F. H. Fitch, Elec. & Ch. Engr. of Power Station C. Knowles. 9 5

CEDAR RAPIDS, IA.—Cedar Rapids & Marion City Ry. 14 m, 12.33 m s, 4-8 1/2 g, 45, 58 lb T & girder r, 29 c, of which 17 are m c and 12 t c. Gen. Elec. system. American St. and Louis cars. Allis engines. Pres. P. E. Hall, V. Pres. W. D. Douglas, Sec. & Treas. C. H. Clark, Gen. Man. Supt. & Pur. Agt. F. L. Disersen, Elec. & Ch. Engr. of Power Station R. B. Holbrook. 9 5

CENTERVILLE, IA.—People's St. Ry. Co. 2 m, 3-8 g, 20 lb T r, 3 n, 14 mu. Robinson & Hitt and Laclede cars. Pres. J. R. Wooden, Sec. Treas. & Supt. C. R. Wooden. 9 5

CENTRALIA, ILL.—Centralia & Central City St. Ry. Co. 3 1/2 m, 8 1/2 m s, 4-8 1/2 g, 25 lb T r, 8 c, 12 mu. Brill cars. Pres. S. N. Pierce, V. Pres. J. Grush, Sec. G. P. Duncan, Treas. A. Dunker. 9 4

CHAMPAIGN, ILL.—Urbana & Champaign St. Ry. Co. (Lessee of Champaign Rapid Transit Co.) 11 m, 4-8 1/2 g, 40-48 lb T r, 15 c, of which 7 are m c and 8 t c. Westinghouse system. Brownell and Laclede cars. Ide and Russell engines. 728 H. P. Babcock & Wilcox boilers. Pres. Treas. Gen. Man. & Pur. Agt. B. F. Harris, Jr., V. Pres. H. H. Harris, Sec. N. M. Harris, Gen. Supt. H. J. Pepper, Ch. Engr. of Power Station F. Heimlicher. 1 5 s

CHARLESTON, S. C.—Charleston City Ry. Co. 14 m, 6 m s, 4-8 1/2 g, 42 lb c. b. r, 32 c, 135 h and mu.

Stephenson cars. Pres. & Pur. Agt. Jno. S. Riggs, Sec. & Treas. Frank F. Whildon, Gen. Man. & Supt. John Mohlenhoff. Office, 4 Broad st. 9 5

Enterprise R. R. Co. 14 m, 5 g, 30, 40, 45 lb c b T and girder r, 35 c, 95 h, 15 mu. Brill, Jones and Stephenson cars. Pres. & Gen. Man. T. W. Passalalgue, Sec. & Treas. P. J. Balaguer. Office cor. Shepard and Meeting Sts. 4 5 s

Middle Street Sullivan Island Ry. Co. 2 1/2 m, 4-8 1/2 g, 20, 30 lb T r, 7 c, 14 mu. Brill and Stephenson cars. Pres. & Pur. Agt. B. Callaghan, Sec. & Treas. Frank F. Whildon, Gen. Man. & Supt. B. Buckley. Office 4 Broad st. 9 5

CHARLESTON, W. VA.—Charleston St. Ry. Co. 4 m, 4-8 1/2 g, 35 lb. s. b. r, 6 open c, 7 h, 12 mu. Sec E. W. Bridge, Treas. & Gen. Man. J. D. Campbell Supt. W. B. Carder. Office, 215 Kanawha st. 3 2

CHARLOTTE, N. C.—Charlotte Electric Ry., Light & Power Co. 5 m, 3 m s, 4-8 1/2 g, 40-45 lb T and girder r, 12 c, of which 11 are m c and 1 t c. Gen. Elec. and Westinghouse systems. Brill cars. Arlington & Sims and Cooper Corliss engines. Pres. E. D. Latta, Sec. & Treas. F. A. Savin, Gen. Man. F. D. Sampson, Elec. A. F. Scott, Ch. Engr. of Power Station M. B. Presson. 9 5

CHARLOTTESVILLE, VA.—Piedmont Construction & Improvement Co. 3.5 m 4-8 1/2 g, 48 lb T r, 10 c, of which 3 are h c, 5 m c and 2 t c. Gen. Elec. system. Brill and Stephenson cars. Ball engines. Pres. Treas. & Gen. Man. T. O. Troy, V. Pres. D. Harmon, Sec. F. B. Pegton, Elec. M. Troy. 10 5

CHATTANOOGA, TENN.—Chattanooga & North Side St. Ry. Co. (Operates North Chattanooga St. Car line) 6 1/2 m, 3 m s, 4-8 1/2 g, 56 lb girder & T r, 9 c of which 3 are h c and 6 t c. T-II system. Stephenson cars. Arlington & Sims engines. Pres. & Gen. Man. S. R. Read, V. Pres. N. E. Barker, Sec. & Treas. W. H. Hart, Gen. Man. S. R. Read, Supt. Pur. Agt. Elec. & Ch. Engr. of Power Station W. C. Teas. 11 5

Chattanooga & Lookout Mountain Ry. Steam 9 m 4-8 1/2 g, 50 lb T r. Supt. W. T. Carley. 2 4

Chattanooga Electric Ry. Co. 32 m, 25 m s, 4-8 1/2 g, 25-100 lb T & girder r, 40 c, of which 30 are m c and 10 t c. Gen. Elec. system. Brill and Stephenson cars. Arlington & Sims, Beck and Taylor engines. Receiver, S. W. Divine, Gen. Supt. W. L. McCall. Office Richardson Block. 9 5

Chattanooga Union Ry. Co. dummy line, 44 m 4-8 1/2 g, 56 lb r, 59 c, of which 17 are pass. c. and 42 freight c. Gilbert and Chattanooga Car & Foundry Co. cars. Baldwin and Rhode Island engines. Pres. H. S. Chamberlain, Sec. & Treas. O. L. Hurlbut, Supt. J. R. Shaler. 5 3

Incline & Narrow Gauge Ry. Co. 3 1/2 m, of which 3 are steam and 1/2 incline cable, 3 g, 35 lb T r. Pres D. Woodworth, V. Pres. H. F. Temple, Gen. Man. H. C. Evans, Supt. T. M. Derickson. Office Lookout Mountain. 2 4

CHEBOYGAN, MICH.—Cheboygan Street Railway Co. Horse. Supt. D. J. Kennedy (Bay City, Mich.) k e

CHESTER, PA.—Chester Traction Co. (Controls all lines in the city.) Pres. G. B. Lindsay, Sec. & Treas. J. G. Dyer, Gen. Man. J. MacFayden, Ch. Engr. J. D. Rostrum, Elec. A. McDowell. Office, 4th and Penn Sts. 4 5 s

Union Ry. Co. (Operates Chester St. Ry. and Chester, Darby & Philadelphia St. Ry.) 33 m 30 m s, 5-2 1/2 g, 60-90 lb T and girder r, 60 c of which 50 are m c. and 5 t c. Gen. Elec. and Westinghouse systems. Brill and Lamokin cars. Wetherill engines. Pres. G. B. Lindsay, V. Pres. J. F. Black, Sec. & Treas. J. G. Dyer, Gen. Man. & Pur. Agt. J. MacFayden, Ch. Engr. & Ch. Engr. of Power Station J. Rostrum, Elec. A. McDowell. Office, 4th and Penn Sts. 4 5 s

CHICAGO, ILL.—Chicago City Ry. Co. 161.62 m, of which 27.98 are horse, 34.77 cable and 98.87 elec, 80 m s, 4-8 1/2 g, 83 lb girder r, 1,747 c, of which 172 are h c, 320 g c, 388 m c, 867 t c, 766 h. Westinghouse system. Own and Brill cars. 960 H. P. Babcock & Wilcox boilers. Pres. Geo. H. Wheeler, 1st V. Pres. J. C. King, 2d V. Pres. E. M. Phelps, Sec. F. R. Greene, Treas. T. C. Pennington, Supt. M. K. Bowen, Pur. Agt. R. L. Garth, Elec. G. W. Knox, Ch. Engr. C. C. Smith, Ch. Engr. of Power Station, R. G. Hill. Office 2,020 State St. 9 5

Calumet Electric St. Ry. Co. 57 m, 20 m s, 4-8 1/2 g, 78, 80 lb girder r, 106 c, of which 65 are m c and 41 t c. Gen. Elec. and Detroit systems. American, Lamokin, Pullman and St. Louis cars. Ball and Armstrong & Sims engines. Pres. R. Berger, Sec. & Treas. H. B. White, Gen. Man. John Farson, Supt. E. D. Du Bois, Ch. Engr. G. H. Binteley, Elec. C. B. White, Ch. Engr. of Power Station, E. J. Dempsey. Office 9314 Drexel Ave. 9 5

Chicago Electric Transit Co. 11 m, 11 m s, 4-8 1/2 g, 85 lb girder r, 25 m c. Gen. Elec. system. Brownell cars. Fraser & Chalmers engines. Pres. D. H. Louderback, V. Pres. J. L. Cochran, Sec. Treas. & Pur. Agt. H. Abel, Supt. & Elec. C. E. Collins, Ch. Engr. & Ch. Engr. of Power Station W. Thiel. Office, 444 N. Clark St. 4 5

Chicago North Shore St. Ry. Co. 19 m, 8 1/2 m s, 4-8 1/2 g, 85 lb Johnson girder r, 25 m c. Gen. Elec. system. Pullman cars. Wheelock engines. Pres. D. H. Louderback, V. Pres. E. Louderback, Sec. & Treas. Howard Abel. Supt. R. S. Ives. 6 5

Chicago General St. Ry. Co. (includes West & South Towns St. Ry. Co's). 15 m, 8 m s, 4-8 1/2 g, 85 lb girder r, 30 c of which 20 are m c and 10 t c. Gen. Elec. and Sperry systems. Pullman cars. Bates engines. Pres. & Gen. Man. L. E. McGann, V. Pres. C. L. Bonney, Sec. & Treas. L. C. Bonney, Supt. W. F. Breman, Pur. Agt. C. L. Hull, Elec. Jas. Cleary, Ch. Engr. of Power Station Jno. Conrad, Office, 30th St. and Kedzie Ave. 9 5

Cicero & Proviso St. Ry. Co. 45 m, 4-8 1/2 g, 60 lb Johnson girder r, 106 c, of which 61 are m c and 45 t c. Gen. Elec. system. American, Pullman and St. Charles cars. Allis & Bullock engines. Pres. G. Butters, V. Pres. & Gen. Man. C. R. Frederick, Sec. W. G. Foreman, Treas. W. F. Furbeck. Office, Oak Park. 6 5

Chicago & South Side Rapid Transit R. R. Co. 18.62 m, 4-8 1/2 g, 90 lb T r, 150 cars, 46 loc. Pres. & Gen. Man. M. Hopkins, V. Pres. W. R. Champlin, Sec. & Treas. J. H. Glade, Audr. F. E. Williams. Office, 47 Congress St. 3 5 s

Lake Street Elevated R. R. Co. 14 m, 6 1/2 m s, 4-8 1/2 g, 76, 80 lb T r, 125 c, 25 loc. Gilbert and Pullman cars. Rhode Island locomotives. Pres. D. H. Louderback, V. Pres. A. S. Littlefield, Sec. & Treas. R. Laughlin, Asst. Sec. & Pur. Agt. R. S. Buchanan, Supt. F. Healey, Ch. Engr. C. V. Weston, Elec. J. R. Chapman. Office, 1337 West Lake St. 9 5

Metropolitan West Side Elevated R. R. Co. 30.5 m, 4 8 1/2 g, 80 lb T rail, 155 c, of which 55 are m c and 100 t c. Barney & Smith and Pullman cars. Allis engines. 4,000 H. P. Babcock & Wilcox boilers. Pres. R. E. Jenkins, Sec. & Treas. G. Hingston, Jr., Gen. Supt. Pur. Agt. & Ch. Engr. W. E. Baker, Supt. of Trans. A. S. Jones, Supt. of Motive Power, M. H. Gerry, Jr., Ch. Engr. Power Station, G. H. Klumph. Office, 260 Franklin St. 9 5

North Chicago St. R. R. Co. 100 m, of which 50 are horse, 17 cable and 33 elec., 60 m s, 4-8 1/2 g, 75-85 lb girder r, 1000 c, of which 300 are h c, 130 c c, 100 c c and 470 t c and 1,000 h. Gen. Elec. system. American, Brill, Brownell, Pullman and Stephenson cars. Allis, Fraser & Chalmers and Wetherill engines. Pres. Chas. T. Yerkes, 1st V. Pres. W. F. Furbeck, 2d V. Pres. Gen. Man. Pur. Agt. & Ch. Engr. J. M. Roach, Sec. & Treas. J. W. Helm, Supt. E. W. Sherman, Elec. J. R. Chapman. Office, 445 N. Clark St. 2 5

South Chicago City Ry. Co. 35 m, 1 1/2 m s, 4-8 1/2 g, 80 lb girder r, 92 c, of which 43 are m c and 49 t c. Gen. Elec. and Westinghouse systems. Brownell and Pullman cars. Allis engines. Pres. D. F. Cameron, V. Pres. V. Shaw Kennedy, Sec. Treas. & Pur. Agt. O. S. Galtner, Supt. B. J. Jones (S. Chicago). Office 308 1st Nat. Bank Bldg. 9 5

West Chicago St. R. R. Co. (Includes Chicago Pass. Ry.) 185 m, of which 151 are horse and 34 cable. 4-8 1/2 g, 43-90 lb flat & girder r, 1,815 c, of which 1,475 are h c, 225 t c and 200 c c, 4,025 h. Pres. Chas. T. Yerkes, V. Pres. & Gen. Man. John B. Parsons, 2d V. Pres., Sec. & Treas. G. A. Yullie, Pur. Agt. E. A. Blodgett, Man. of Construction, J. R. Chapman, Supt. F. L. Fuller. Office of Pres. 89 W. Washington St. 3 5

CHILLICOTHE, ILL.—People's Street Ry. Co 3 1/2 m, 4-8 1/2 g, 16, 20, 25 lb T r, 6 c, 12 mu. Lessee & Gen. Man. J. Klnloch. 1 4

CHILLICOTHE, O.—Chillicothe Electric R. R., Light & Power Co. 5 m, 4 1/2 m s, 4-8 1/2 g, 55 lb T r, 14 c, of which 8 are m c and 6 t c. Gen. Elec. system. Barney & Smith cars. Ideal engines. Pres. & Gen. Man. J. P. Myers, V. Pres. R. Enderline, Sec. & Treas. W. F. Hays, Ch. Engr. & Ch. Engr. of Power Station C. Wickwire, Elec. L. Lauber. 9 5

CINCINNATI, O.—Cincinnati Inclined Plane Ry Co. Elec. 16 m, 1920 ft, of which are on an inclined plane, 5-2 1/2 g, 56, 65 1/2, 63 lb girder r, 40 m c, 5 h. Gen. Elec. system. Lane & Bodley Engines. Pres. H. H. Littell, V. Pres. St. John Boyle, Sec. J. M. Doherty, Gen. Man. & Pur. Agt. H. P. Bradford, Ch. Engr. Jno. Smith. 9 5

Cincinnati, Newport & Covington St. Ry. Co. (Operated by South Covington & Cincinnati St. Ry. Co.) 60 m, 35 m s, 5-2 1/2 g, 65, 80 lb T & girder r, 113 m c, Westinghouse system. Brownell, Jones, Laclede and Stephenson cars. Arlington & Sims, Cleveland Ship Bldg Co. Lane & Bodley and McIntosh & Seymour engines. 600 H. P. Babcock & Wilcox boilers. Pres. J. J. Shipherd, V. Pres. C. E. Orr, Sec. J. H. Hoyt, Treas. H. P. Eells, Resident operating officers, Gen. Man. S. Bigstaff, Asst. Sec. & Treas. G. M. Abbott, Supt. & Pur. Agt. T. M. Jenkins, Supt. of Power Station A. C. Harrington. Office, 4th and Scott sts. 9 5

Cincinnati St. Ry. Co. 152.2 m, of which 8 are cable, and 144.2 elec. 5-2 g, 70, 96 lb girder r, 751 c of which 440 are m c, 36 g c and 275 other c. Gen. Elec. and Siemens systems. 3,200 H. P. Babcock & Wilcox boilers. Pres. & Gen. Man. John Kilgour, Sec. Jas. A. Collins, Treas. R. A. Dunlap, Gen. Supt. Jno. Harris, Pur. Agt. A. G. Starr, Elec. B. L. Kilgour, Mech. Engr. B. L. Baldwin, Ch. Engr. of Power Stations, H. C. Rolf, Audr. W. R. Avery, Engr. of Roadway, F. K. Welzenacker. Office, 2d floor Apollo bldg. 3 5 s

Mt. Adams & Eden Park Inclined Ry. 25.30 m of which 7.81 are cable and 17.46 elec. 5-2 1/2 g, 70-96 lb r 208 c, of which 48 are g c, 66 m c and 94 t c. Gen. Elec. system. Brill, Laclede, Pullman and Stephenson cars. Pres. John Kilgour, Sec. & Treas. James A. Collins, Pur. Agt. A. G. Starr, Supt. John C. Weaver. Office, 5th & Walnut sts. 3 5 s

Cincinnati Electric St. Ry. Co. Successors to Mt. Auburn Cable Ry. Co. 8 1/2 m, cable, 5-2 g, 56 lb girder r, 42 c, of which 21 are g c and 21 t c. Receiver A. Hill, Pres. H. Martin, V. Pres. R. Wurlltzer, Supt. G. Levins. Office, Imogene ave. & Saunders St. 9 5

Pendleton, Mt. Lookout & E. Walnut Hill Ry. Co. 2 m, 5.2 g, 40 lb T r, 5 c, of which 2 are dummy, 1 m c, and 2 t c. Gen. Elec. system. Pres. & Gen. Man. C. H. Kilgour, Sec. Supt. & Pur. Agt. A. H. Meier, Treas. C. G. Gove, Elec. B. Kilgour. Office Station C. 9 5

Price Hill Inclined Plane R. R. Co. 2 planes, each 800 ft., 5-6 g, 60 and 85 lb T r, 4 c. Pres. M. W. Oliver, Gen. Man. Lees E. McDuffie, Sec. & Treas. Geo. T. McDuffie. Office, Price Hill. 9 5

CITY ISLAND, N. Y.—Pelham Park R. R. Co 3 1/2 m, 3.2 m s, 3-6 g, 30-57 lb T and s b r, 8 c, of which 6 are 4-wheel box and 2 4-wheel open, 16 h. Pres. H. D. Carey, V. Pres. W. R. Lambertson, Sec. & Treas. E. N. Anable, Supt. Jesse Titus. Office, City Island, N. Y., and 16 & 18 Exchange Place, New York City. 6 4 s

CLARKSVILLE, TENN.—Clarksville St. Ry Co. 4 1/2 m, 4-8 g, 18 lb T r, 7 c, 32 mu. Pres. W. M. Danial, V. Pres. F. P. Gracey, Sec. J. P. Polk, Supt. T. A. Small. Brownell and Stephenson cars. Office, 211 S. 10th St. 4 4

CLEVELAND, O.—Cleveland City Ry. Co. (Includes Woodland Ave. & West Side R. R., Superior St., Payne & Lexington Ave. and St. Clair st. lines.) 74 m, of which 19 are cable and 55 elec. 90 lb girder r, 360 c, of which 47 are h c, 150 c c and 163 t c. Elwell-Parker, Short and Westinghouse systems. Brill, Jones and Brownell cars. Globe engines. 1088 H. P. Babcock & Wilcox boilers. Pres. M. A. Hanna, V. Pres. F. De H. Robinson, Sec. Treas. & Pur. Agt. J. B. Hanna, Gen. Supt. George G. Mulhern. Office, Western Reserve Bldg. 9 5

Akron, Bedford & Cleveland R. R. Co. 30 m, 27 m s, 4-8 1/2 g, 60 lb T and girder r, 12 c of which 10 are m c and 2 t c. Westinghouse system. Jackson & Sharp cars. Allis engines. Pres. H. A. Everett, V. Pres. J. Christy, Jr, Sec. F. S. Borton, Treas. E. W. Moore, Gen. Man. & Pur. Agt. W. Christy, Supt. F. J. J. Sloat, Elec. L. M. Sheldon, Ch. Engr. of Power Station J. Morgan, Office, 616 Garfield Bldg. operating office, Cuyahoga Falls, O. 11 5

Cleveland & Berea St. Ry. Co. 11 m, 10 m s, 4-8 1/2 g, 45, 56 T and girder r, 10 c, of which 6 are m c and 4 t c. Gen. Elec. and Westinghouse systems. Brill and Kuhlman cars. Ball engines. Pres. & Pur. Agt. C. W. D. Miller, V. Pres. F. T. Pomeroy, Sec. & Treas.

A. H. Pomeroy, Supt. A. W. Bishop, Elec. F. Botzum, Ch. Engr. of Power Station J. Sayer. 10 4

Cleveland Electric Ry. Co. 120 m, 4-8 1/2 g, 62-98 lb girder r, 482 c, of which 240 are m c and 242 t c. Gen. Elec. and Steel Motor systems. Brill and Jones cars. Allis engines. Pres. H. E. Andrews, V. Pres. H. A. Everett, Sec. R. A. Harman, Treas. J. Parmelee, Asst. Sec. & Treas. H. J. Davies, Elec. & Pur. Agt. C. W. Wason, Gen. Supt. J. J. Stanley. 3 5 s

Cleveland & Elyria R. R. Co. 17 m, 4-8 1/2 g, 60 lb T r, 6 m c, Jackson & Sharp cars. Westinghouse system. Pres. A. H. Pomeroy, V. Pres. L. M. Col, Sec. A. E. Atkins, Treas. & Man. F. T. Pomeroy. Office, 616 Garfield Bldg. 11 5

Cleveland, Palmsville & Eastern R. R. Co. Pres. W. Wason, V. Pres. J. A. Heidner, Treas. E. W. Moore, Sec. F. S. Borton. Office 616 Garfield Bldg. 11 5

CLEVELAND, TENN.—Cleveland St. Ry. Co. 2 m, 4-9 g, 32 lb T r, 2 1/4 wheel box c, 4 mu. Pres. L. D. Campbell, Sec. & Treas. L. L. Harle, Supt. J. T. Johnston. 5 2

CLINTON, IA.—State Electric Co. (Operates Lyons & Clinton Horse R. R.) 14 m, of which 2 are horse and 12 elec. 4-8 1/2 g, 45, 54 lb girder & T r, 20 c, of which 2 are h c, 12 m c and 6 t c, 6 h, 4 mu. Gen. Elec. and Westinghouse systems. Pullman cars. Ideal engines. Pres. E. C. Walsh, V. Pres. D. Langan, Sec. C. C. Coan, Treas. A. L. Stone, Gen. Man. J. P. Calman, Supt. W. H. Calman. 4 4

CLINTON, MASS.—Clinton St. Ry. Co. 3.01 m, 2.92 m s, 4-8 1/2 g, 48, 55, 60 lb T r, 4 m c. Gen. Elec. and Westinghouse systems. Jones cars. Power rented. Pres. H. Parker, V. Pres. H. A. Willis, Sec. W. R. Dane, Treas. F. A. Hammond, Supt. & Pur. Agt. C. A. Jeffers, Audr. W. W. Henry. 9 5

CLINTON, MO.—Clinton St. Ry. Co. 3 m, 4 g Z T & crescent r, 5 c, 8 mu. Pres. A. P. Frowen, V. Pres. J. T. Ruffin, Sec. & Treas. H. P. Faris, Supt. G. C. Haysler. 4 4

COHOKS, N. Y.—The Cohooks City Ry. Co. 4.5 m, 4.5 m s, 4-8 1/2 g, 70, 90 lb T & girder r, 12 c of which 8 are m c and 4 t c. Gen. Elec. system. Jones cars. Knowles & Kelley engines. Pres. Urban Weldon, Treas. M. Hubbard, Ch. Engr. of Power Station. Chas. Davies. 10 5

COLORADO SPRINGS, COLO.—Colorado Springs Rapid Transit Ry. Co. Elec. 25 m, 4-8 1/2 g, 30 lb T r, 42 c, of which 25 are m c and 17 t c. Gen. Elec. system. Pullman and Woebler cars. Frick and Reynolds Corliss engines. Pres. F. L. Martin, V. Pres. E. J. Eaton, Sec. & Treas. A. L. Lawton, Gen. Man. & Auditor, A. A. McGovney, Supt., Pur. Agt. & Elec. D. L. Macaffree, Ch. Engr. of Power Station C. Bibb. 9 5

COLUMBIA, PA.—(See Lancaster, Pa.)

COLUMBIA, S. C.—Columbia Electric St. Ry. Light & Power Co. 10 m, 4-8 1/2 g, 50 lb T r, 10 c, of which 6 are m c and 4 t c Short system. Lamokin cars. Pres. & Gen. Man. J. Q. Marshall, V. Pres. T. J. Moore, Sec. & Treas. W. G. Childs, Supt. A. Wallace. Office, 85 Gervais St. 9 5

COLUMBUS, GA.—Columbus R. R. Co. (Includes North Highlands R. R. Co.) 20 1/2 m, 4-8 1/2 g, 56 lb T r, 24 c, of which 19 m c, and t c. Gen. Elec. system. Jackson & Sharp cars. Water power. Pres. J. F. Flournoy, V. Pres. John H. Drake (Phila.) Sec. C. Grimes, Treas. W. S. Drake, Supt. & Pur. Agt. John H. Henderson, Ch. Engr. of Power Station & Elec. W. D. Keen. 9 5

COLUMBUS, IND.—Crump's St. Ry. 7 m, 0 of which 1/2 m is horse and 6 1/2 elec. 4-8 1/2 g, 30 lb T r, 9 c of which 1 is h c, 4 m c and 4 t c. American Car Co. and Brownell cars. Ide engines. John S. Crump, proprietor; Man. R. F. Gottschalk, Supt. J. W. Crump, Jr. 4 5 s

COLUMBUS, O.—Columbus St. Ry. Co. (Operates Crosstown St. Ry. Co.) 60 m, 38 m s, 5-2 g, 45 95 lb girder r, 150 c, of which 115 are m c and 35 t c. Gen. Elec. system. Brill, Brownell and Stephenson cars. Buckeye and McIntosh & Seymour engines 1,807 H. P. Babcock & Wilcox boilers. Pres. E. Mc Millin, 1st V. Pres. & Treas. E. K. Stewart, 2d V. Pres. R. E. Sheldon, Sec. P. V. Burlington, Gen. Man. & Pur. Agt. W. F. Kelly, Supt. of Transp. Geo. H. Scranton, Elec. M. S. Hopkins, Ch. Engr. of Power Station F. H. Brosius, Office, 14 N. High St. 9 5

Columbus Central Ry. Co. Elec 25 m, 5-2 g, 70 lb T r, 45 m c. Westinghouse system. Brownell cars. Westinghouse engines. Pres. J. J. Shipherd, V. Pres. M. H. Neil, Sec. & Treas. E. W. Radder, Gen. Man. J. A. Barry. 9 5 k e

Worthington, Clintonville & Columbus St. Ry. Co. 5 m, 5-2 g, 45 lb T r, 5 c of which 4 are m c and 1 t c. Westinghouse system. Brill cars. Power rented. Pres. O. W. Aldrich, V. Pres. G. VanLoon, Sec. Supt. & Pur. Agt. R. M. Weaver, Treas. H. C. Cooke. Office 11 Wesley Block. 9 5

CONCORD, N. C.—Concord Ry. Co. (Not in operation) Steam, 2.65 m, 4 1/2 g, 40 lb T r, 3 c. Owned by J. P. Allison, A. B. Young and W. M. Smith. 9 5

CONCORD, N. H.—Concord St. Ry. Co. 12 1/2 m, 1 1/2 m s, 3 g, 35, 45 and 50 lb T r, 26 c, of which 18 are m c and 8 t c. Gen. Elec. system. Briggs, Lamokin and Stephenson cars. Rollins and Swampscoot engines. Pres. & Pur. Agt. J. H. Albin, Sec. N. E. Martin, Treas. A. B. Cross, Supt. H. E. Chamberlin, Elec. D. W. White, Ch. Engr. of Power Station, C. E. Roberts. Office, 3 Depot St. 9 5

CONEY ISLAND, N. Y.—Sea View R. R. Co. Elevated. 2.3 m, 1 m s, 4-8 1/2 g, 56 lb T r, 7 c, 7 locomotives. Brill and Felgel cars. Baldwin engines. Pres. F. A. Schroeder, Sec. Gen. Supt. & Pur. Agt. W. Finley, Treas. F. M. Argumbeau. Office, Flatbush. 9 5

J. M. Ropes, Sec. W. B. Newkirk, Treas. & Supt. H. Keller. 2 8

Gussett St. Ry. 4 m, 4-8 1/2 g, 25-30 lb T r, 6 c, 16 mu. Proprietor, N. Gussett. 9 1

CORSICANA, TEX.—Corsicana St. Ry. Co. 4 1/2 m, 4-8 1/2 g, 16 lb T r, 6 c, 28 mu. Pres. & Gen. Man. B. G. McKie, V. Pres. J. E. Whiteside, Sec. & Treas. W. J. McKie. 5 3

CORTLAND, N.Y.—Cortland & Homer Traction Co. 11 m, 4-8 1/2 g, 56 lb G r, 17 c, of which 9 are m c and 8 t c. Gen. Elec. system. Jackson & Sharp, and Jones cars. Watertown engines. Pres. E. D. Simpson, 1st V. Pres. H. Bergholtz, 2d V. Pres. P. S. Page, Sec. & Treas. H. E. Hand, Supt. R. E. Dunston. 9 5

CORVALLIS, ORE.—The Corvallis St. Ry. Co. 2 m, 2 m s, 3-6 g, 30 lb steel T r, 2 box c, 2 h. Pres. Gen. Man. Supt. & Pur. Agt. M. W. Wilkins, Sec. M. O. Wilkins, Treas. M. G. Wilkins. 1 4

COTTAGE CITY, MASS.—Cottage City St. Ry. Co. 6 m, 6 m s, 4-8 1/2 g, 40 lb T r, 10 c, of which 7 are m c and 3 t c. Briggs, Jones and Ellis cars. McIntosh & Seymour engines. Pres. Josiah Quincy, Treas. Fred. Nichols, Gen. Man. Pur. Agt. & Elec. John A. Duggon, Ch. Engr. of Power station, John Burnham. Offices, Cottage City and 13 School St., Boston, Mass. 9 5

COTTONWOOD FALLS, KAN.—Consolidated St. Ry. Co. 1 1/2 m, 1/2 m s, 3-6 g, 36 T lb steel T r, 2 4-wheel box c, 6 h, 4 mu. Pres. H. S. F. Davis, V. Pres. W. Adare, Sec. E. W. Tanner, Treas. C. J. Lan, try, Gen. Man. & Pur. Agt. W. P. Martin. 9 4

COVINGTON, GA.—Covington & Oxford St. Ry. Co. 6 m, 6 m s, 4-8 1/2 g, 25 lb T r, 6 h c, 8 mu. Pres. I. W. Brown, Sec. & Treas. J. G. Lester, Gen. Man. & Supt. R. O. Usher. 9 5

CUMBERLAND, MD.—Cumberland Electric Ry Co. 6 1/2 m, 4-8 1/2 g, 54 lb T and girder r, 14 c, of which 9 are m c and 5 t c. Gen. Elec. and Westinghouse systems. Brill cars. Rent Power. Pres. G. L. Wellington, V. Pres. L. Lowndes, Sec. & Treas. J. H. Holzshu, Supt. W. Milnor Roberts, Jr., Elec. R. Bergman. Office, North Centre St. 9 5

CUYAHOGA FALLS, O.—(See Akron, O.)

DALLAS, TEX.—Dallas Consolidated Traction Ry. Co. 26 m of which 18 are horse and 8 elec. 19 m s, 4-8 1/2 g, 35 lb girder and T r, 64 c, of which 52 are h c and 12 m c, 208 mu. Gen. Elec. and Westinghouse systems. Laclede, St. Louis, Brownell and Stephenson cars. Receiver, S. P. Cochran, Supt. W. Dresser, Pur. Agt. J. L. Sale, Elec. C. M. Orr. Office, 135 Main St. 9 5

Dallas & Oak Cliff Electric Ry. Co. 11 m, 4-8 1/2 g, 35 & 65 lb T r, 4 m, 15 c. Pres. H. C. Scott, V. Pres. C. F. Carter, Sec. & Treas. Supt. B. F. Sibert. Office, Jefferson and Commerce sts. 6 4

Dallas Rapid Transit Ry. Co. Elec. 13 m, 13 m s, 4-8 1/2 g, 35 & 45 lb steel T r, 10 m c. Edison system. Receiver, C. F. Freeman, Supt. Geo. D. Harrison, Ch. Engr. of Power Station, W. Boyd. Office, 303 North Texas Bank Bldg. 5 4

North Dallas Circuit Ry. Co. Elec. 4 m, 4-8 1/2 g, 40 lb T r, 4 m c. T-H system. St. Louis cars. Pres. J. C. Schneider, V. Pres. & Gen. Man. Royal A. Ferris. Sec. E. T. Moore. 5 4

Queen City Ry. Co. 10.02 m, 6 m s, 4-8 1/2 g, 45 lb T r, 18 m c. Gen. Elec. system. American and St. Louis cars. Receiver Paul Furst, Supt. & Pur. Agt. C. L. Wakefield, Elec. E. Light. Office 263 Elm St. 9 5

DANBURY, CONN.—Danbury & Bethel Horse Ry. Co. 7.16 m, 6.62 m s, 4-8 1/2 g, 25 lb T s, and c. B. Kilnzng. Office, 23 South st. 4 5 s

r, 20 c, of which 13 are 4-wheel box and 7 4-wheel open, 180 h. Pres. S. C. Holly, V. Pres. S. H. Wagner, Sec. & Treas. M. H. Griffing, Gen. Supt. G. H. Kilnzng, Elec. E. Wightman, Office, 23 South st. 4 5 s 1 e

DANVILLE, ILL.—Danville Gas, Elec. Light & St. Ry. Co. 9 m, 7 m s, 4-8 1/2 g, 50 lb T r, 21 c, of which 11 are m c, and 10 t c. Gen. Elec. system. St. Louis cars. Ide engines. Pres. F. W. Penwell, V. Pres. A. C. Daniel, Sec. Treas. Gen. Man. & Pur. Agt. W. P. Cannon, Supt. M. Connor, Elec. O. J. Penwell, Ch. Engr. of Power Station W. Jones. 4 5 s

DANVILLE, VA.—Danville St. Car Co. Elec. 2.06 m, 4-8 1/2 g, 38 lb girder r, 5 m c. T-H system. Lamokin cars. Taylor engines. Pres. P. R. Jones, V. Pres. L. C. Berkeley Jr., Sec. & Treas. H. S. Lanier, Gen. Man. & Supt. N. W. Berkeley, Jr. Office, 320 Craighead st. 1 3

DAVENPORT, IA.—Tri-City Ry. Co. (successor to Davenport & Rock Island Ry. Co.) 43 m, of which 1 is horse and 42 elec. 4-8 1/2 g, 52 lb girder r, 125 c, of which 5 are h c, 65 are m c and 55 t c, 8 h. Gen. Elec. system. St. Louis cars. "Ideal" engines. Pres. J. H. Louderback, V. Pres. J. C. Shaffer, Sec. Treas. & Pur. Agt. J. F. Lardner, Gen. Supt. J. G. Huntoon, Elec. J. D. Fish. Office, 2d & Rock Island sts., Davenport. 9 5

DAYTON, KY.—Cincinnati, Newport & Covington St. Ry. Co., Dayton Division. (See Cincinnati, O.)

DAYTON, O.—City Ry. Co. (Owns and operates Third St., Fifth St., Green and Dayton & Soldiers' Home lines.) 23 m, 9 1/2 m s, 4-8 1/2 g, 70, 90 lb girder r, 96 c, of which 60 are 4 m c and 46 t c. Gen. Elec. and Siemens & Halske systems. Pres. D. B. Corwin, V. Pres. C. B. Clegg, Sec. W. H. Sims, Supt. L. A. Scoville, Asst. Supt. T. C. Howell. Office, Beckel Bldg., 3d and Jefferson sts. 7 5

Home Avenue R. R. Co. Steam 3 m, 4-8 1/2 g, 40 lb T r, 6 c, 3 motors. Barney & Smith cars. Porter engines. Pres. W. P. Callahan, V. Pres. C. W. Dustin, Sec. & Treas. O. J. Bard, Gen. Man. Supt. & Pur. Agt. W. F. Stark. Office, N. Main St. 9 5

Oakwood St. Ry. Co. 8 m, 4 m s, 4-8 1/2 g, 90 lb girder r, 16 m c. Gen. Elec. system. Barney & Smith cars. Green-Wheelock e engines. Pres. and Treas. Charles B. Clegg, V. Pres. A. L. Stout, Sec. & Supt. V. Winters. Office, cor. Brown and Fairground av. 9 5

Wayne & Fifth St. R. R. Co. 8 m, 4 m s, 4-8 1/2 g, 60, 70, 90 lb girder r, 13 c, 85 h. St. Louis cars, Pres. Geo. W. Shaw, V. Pres. & Gen. Man. Ezra Blinn, Sec. & Treas. Eugene Wuchet, Supt. N. Routzohn. Office 29 Wayne av. 9 5

White Line St. R. R. Co. 1 1/2 m, 4-8 1/2 g, 70 lb girder r, 34 c, of which 22 are m c and 12 t c T-H and Westinghouse systems. American, Barney & Smith and Laclede cars. Pres. J. A. McMahon, V. Pres. A. G. Clark, Sec. J. E. Lowe, Supt. & Pur. Agt. Geo. H. Volker, Ch. Engr. & Ch. Engr. of Power Station, C. M. Crane, Elec. J. Cook. 7 5

DECATUR, ALA.—(See New Decatur, Ala.)

DECATUR, ILL.—City Electric Ry Co. 13 1/2 m, 12 m s, 4-8 1/2 g, 40, 42, 48, 50 lb T and girder r, 26 c, of which 21 are m c and 5 t c. Gen. Elec. system. Pullman and St. Louis cars. Ide engines. Pres. D. S. Shellharger, Sec. Treas. & Pur. Agt. W. L. Shellharger, Gen. Man. W. L. Ferguson, Ch. Engr. & Ch. Engr. of Power Station S. Ray, Elecn. G. J. Nitsche. 9 5

DEER PARK, ONT.—Metropolitan St. Ry. Co. 5 m, 5 m s, 4-8 1/2 g, 56 lb T r, 5 m c. Gen. Elec. system. Jones cars. Goldie & McCulloch engines. Pres. C. D. Warren, Sec. & Treas. R. Jenkins, Gen. Man. J. W. Moves. 9 4

DEERFIELD, N. Y.—Deerfield & Utica R. R. Co. 2 m, 2 m s, 4-8 1/2 g, 42 lb flat and T r, 3 box c, 9 h. Stephenson cars. Pres. & Gen. Man. F. G. Weaver, Sec. & Treas. J. R. Swan. 1 4

DEFIANCE, O.—The Defiance Light & R. R. Co. 3 1/2 m, 60 lb T r, 6 c, of which 3 are m c and 3 t c. Westinghouse system. Brownell and Pullman cars. Russell engines. Pres. S. L. Nelson, Sec. & Gen. Man. W. R. Faben, Elecn. C. Miller, Ch. Engr. of Power Station G. Butler. 9 5

DELAWARE, O.—Delaware Electric St. Ry. Co. 6 m, 6 m s, 4-8 1/2 g, 45 lb girder and T r, 7 m c. Westinghouse system. Brill cars. Rent Power. Pres. J. K. Newcomer, V. Pres. J. D. Van Deman, Sec. L. L. Hudson, Treas. V. T. Hills, Supt. Pur. Agt. & Elecn. F. P. Welch. 9 5

DENISON, TEX.—Denison Rapid Transit Ry. Co. (Owned by Denison Land & Improvement Co.) 6 1/2 m, 4-8 1/2 g, 35 lb T r, 6 c, 2 dummies, Baldwin motors. Receiver L. S. Regate, Supt. W. F. Haven, 9 4 Denison Street & Belt Line Ry. Co. 6 m, 4-8 1/2 g, 16, 35 lb T r, 11 c, 2 h, 32 mu. Receiver R. S. Legate, Supt. W. F. Haven. 9 4

DENNISON, O.—The United Electric Co. 2 m, 4-8 1/2 g, 55 lb girder r, 3 m c. Gen. Elec. system. Lamokin cars. Russell and Westinghouse engines. Pres. C. S. Johnson, Sec. & Gen. E. Elvin, Treas. W. H. Smith, Gen. Man. & Pur. Agt. R. F. Gardner, Ele 1. C. J. Farr, Ch. Engr. & Ch. Engr. of Power Station T. Watters. Office Grant St. 9 4

DENVER, COL.—Colfax Electric Ry. Co. 10 1/2 m, 3-6 g, 30 lb T r, 32 c, of which 12 are m c. and 20 t c. Gen. Elec. system. Ball and Armstrong & Sims engines. Pres. & Gen. Man. S. M. Perry, Treas. T. S. Hayden, Supt. F. A. Perry, Office, 1738 Curtis st. 3 5 Denver & Westminster Ry. Co. Elec. 18 m, 4-8 1/2 g, 16, 35 lb T r, 11 c, 2 h, 32 mu. Receiver R. S. Legate, Supt. W. F. Haven. 9 4

Denver, Lakewood & Golden R. R. Co. Elec. and Steam, 20 m, of which 15 are steam and 5 elec, 4-8 1/2 g, 60, 76 lb T r, 12 c, of which 4 are m c, 4 t c and 4 steam c. T-H system. Woebler cars. Sloux City engines. Pres. C. C. Welch, V. Pres. W. F. R. Mills, Sec. J. Q. Adams, Treas. W. A. H. Loveland, Supt. Offices, 1427 Arapahoe St. 8 3

Denver Consolidated Tramway Co. (Includes Denver Cable, Denver & Berkeley Park, So. Denver Cable, University Park and Metropolitan.) 99.13 m, 3-6 g, 48 lb T r, 295 c, of which 17 are g c, 120 m c and 109 t c and 49 other c. Gen. Elec. and Westinghouse systems. Brill, St. Louis and Woebler cars. Hamilton-Corliss and Wetherill engines. Pres. Rodney Curtis, V. Pres. Jno. J. Riethman, Sec. Wm. G. Evans, Treas. F. A. Keener, Gen. Supt. C. K. Durbin, Pur. Agt. J. C. Curtis, Elecn. A. M. Ballou, Ch. Engr. Construction J. A. Beeler, Ch. Engr. Motive Power A. G. Worden. Offices, 15th & Arapahoe Sts. 4 5

Denver City Cable Ry. Co. 46 m, of which 5 are horse, 30 cable and 11 elec., 24 m s, 3-6 and 4-8 g, 45, 56 lb T r, 200 c of which 2 are h c, 62 g c, 17 m c and 119 t c, 30 h. Gen. Elec. system. Laclede and Woebler cars. Allis, Arlington & Sims and Wright engines. 2686 H. P. Babcock & Wilcox boilers. Receivers G. E. Randolph and C. E. Sweetland. Pres. Geo. H. Holt, Sec. & Treas. G. D. L'Hullier, Gen. Man. Supt. & Pur. Agt. G. E. Randolph, Ch. Engr. of Power Station, W. F. Smith. Office, 18th & Lawrence Sts. 3 5

Thirty-fourth Ave. Ry. 1 1/2 m, 3-6 g, 25 lb T r, 1 c, 4 h. Owner, J. Cook, Jr., P. O. Box 528. 9 4 West End St. R. R. Co. Elec. 10 1/2 m, 4-8 1/2 g, 50 lb T r, 17 m c. Gen. Elec. system. Laclede and Woebler cars. Arlington & Sims engines. Receivers G. E. Randolph and C. E. Sweetland. Pres. J. Wilhour V. Pres. & Gen. Man. D. F. Longstreet, Supt. & Pur. Agt. S. Roy Wright. Office Prospect Ave. 9 5

DEPTFORD, TENN.—Deptford & South Pittsburg St. R. R. Co. 2 1/2 m, 4-8 1/2 g, 40 lb T r, 4 c, 8 mu. Stephenson cars. Pres. L. W. Barringer, V. Pres. J. G. Kelley, Sec. Treas. & Gen. Man. J. Bright, Office, South Pittsburg, Tenn. 9 5

DERBY, CONN.—Derby Street Ry. Co. 6 m, 4-8 1/2 g, 60, 90-lb T and girder r, 25 c, of which 17 are m c and 8 t c. Gen. Elec. system. Brill and Jackson & Sharp cars. Allis engines. Pres. H. H. Wood, V. Pres. C. F. Bliss, Sec. & Supt. B. W. Porter, Treas. C. E. Clark, Ch. Engr. of Power Station H. Schmitz, Office 90 Main St. 9 5

DES MOINES, IA.—Des Moines City Ry. Co. Elec. 35 m, 27 m s, 4-8 1/2 g, 45, 60 lb T and girder r, 51 c, of which 49 are m c, and 2 t c. Gen. Elec. system. St. Louis cars. Lane & Bodley engines. Pres. J. S. Polk, Sec. G. H. Huttenlocker, Treas. & Gen. Man. Geo. B. Hippee, Supt. W. G. Owens, Ch. Engr. of Power Station J. S. Goodrell. Office, 607 Mulberry St. 2 5

DETROIT, MICH.—Fort Wayne & Belle Isle Ry Co. 2 1/2 m, 4-8 1/2 g, 45, 91, 98, lb girder r, 91 c, of which 35 are m c. and 56 t c. Gen. Elec. system. Brill cars. Allis engines. Pres. E. H. Butler, V. Pres. S. Schiess, Sec. N. W. Goodwin, Treas. E. S. Heineman, Supt. & Pur. Agt. G. S. Hazard, Elecn. A. S. Van DeMark, Ch. Engr. of Power Station J. Renk. Office, Room 12 Kanter Bldg. 9 5

Detroit Citizens' St. Ry. Co. (Includes Grand River St. Ry. and Hamtramck & Grosse Pointe Ry. Leases Highland Park and Detroit Suburban Ry.) 64.12 m, of which 49.40 are horse and 14.72 elec, 44.79 m s, 4-8 1/2 g, 40, 60, 77, 78 lb T, tram and girder r, 398 c, of which 296 are h c, 68 m c and 34 t c, 1,550 h. Detroit, Gen. Elec. and Westinghouse systems. Brill, Jones and Pullman cars. Westinghouse, Church, Kerr & Co. engines. 3,500 H. P. Babcock & Wilcox boilers. Pres. T. L. Johnson, V. Pres. J. C. Hutchins, Sec. A. E. Peters, Treas. R. T. Wilson, Asst. Treas. J. V. Johnson, Gen. Man. A. B. Dupont, Supt. J. Grant, Elecn. J. C. Liggett, Const. Engr. E. J. Cook, Ch. Engr. of Power Station Thos. Farmer, Jr. Office, 12 Woodward Ave. 9 5

Detroit Railway. 30 m, 4-8 1/2 g, 85 lb girder r, 75 m c. Westinghouse system. Mehling cars. Allis engines. Pres. G. W. Pack, V. Pres. & Gen. Man. H. A. Everett, Sec. & Treas. A. Pack, Asst. Sec. & Auditor. F. Starring, Supt. L. E. Belstein, Elec. Engr. & Pur. Agt., W. E. Davis, M. E. J. F. Randall, C. E. A. P. Ruggles, Office, Chamber of Commerce Bldg. 4 5

Detroit, Rouge River & Dearborn St. Ry. Co. Elec 1 1/2 m, 4-8 1/2 g, 56 lb T r, 1 m c. Edison system. Pres. E. J. Owen, V. Pres. J. R. McLoughlin, Sec. S. Hendrie, Treas. R. J. McLoughlin. Office, Moffat Building. 5 4

Rapid Ry. Co. 18 m, 4-8 1/2 g, 70 lb T r, 16 c, of which 8 are m c and 8 t c. Walker system. Jackson & Sharp cars. Phoenix engines. Pres. G. J. Keltly, Treas. C. M. Swift, Gen. Man. & Pur. Agt. P. A. Glassdell, Supt. & Ch. Engr. W. G. Wagenholz, 9 5 Wyandotte & Detroit River Ry. Co. 10 1/2 m, 10 1/2 m s, 4-8 1/2 g, 52, 56 lb T r, 12 c, of which 8 are m c, 4 t c. Westinghouse system. Jackson & Sharp and Jones cars. Phoenix engines. Pres. C. M. Swift, V. Pres. L. S. Trowbridge, Sec. & Treas. R. J. McKinney, Gen. Man. Pur. Agt. & Elecn. S. Hendrie, Supt. J. Busby. 9 5

DOVER, N. H.—Union St. Ry. Co. (Leased by Consolidated Light & Power Co.) 14 m, 4-8 1/2 g, 40 lb T r, 19 c, of which 11 are m c and 8 t c. T-H system. Receiver G. E. Macomber, Pres. H. Haley, V. Pres. & Treas. H. W. Burgett, Sec. R. W. Burwell, Gen. Man. G. E. Macomber, Supt. & Pur. Agt. H. C. Weston, Elecn. J. Batchelder. 7 4

DUBLIN, TEX.—Dublin St. Ry. Co. 3 m, 3 m s. Brownell cars. 4 g, 20 lb T r, 4 c, 20 mu. Pres. H. A. Smith, V. Pres. R. H. McCain, Sec. J. E. Chapman, Treas. A. A. Chapman, Gen. Man. & Pur. Agt. R. V. Le Grand. 9 4

DU BOIS, PA.—Du Bois Traction Passenger Ry. Co. 3 m, 2 1/2 m s, 4-8 1/2 g, 50 lb girder r, 5 m c. Wightman and Gen. Electric systems. Brill and Stephenson cars. McEwen and Ball engines. Pres. M. D. Wayman, V. Pres. & Sec. A. C. Bailey, Pur. Agt., Gen. Man. & Supt. S. R. Smith, Treas. G. E. Grier, Ch. Eng. Power Station, W. L. Shawkey. 1 4

DUBUQUE, IA.—Dubuque St. R. R. Elec. 15 m, 9 m s, 4-8 1/2 g, 52 lb girder r, 25 c, of which 15 are m c and 10 t c. Gen. Elec. and Detroit systems. Brill cars. Sloux City engines. Pres. & Gen. Man. J. A. Rhomberg, Sec. C. H. Meyer, Treas., Gen. Man. & Supt. J. H. Rhomberg, Ch. Engr. Power Station L. A. Pitus. 9 5

Dubuque Light & Traction Co. Elec. 10.5 m, 10 m s, 4 1/2 g, 52 lb T and girder r, 19 c, of which 12 are m c and 7 t c. Gen. Elec. system. St. Louis cars. Receiver J. Balch, Supt. C. H. Lantz. 9 5

DULUTH, MINN.—Duluth St. Ry. Co. (Operates Motor Line Improvement Co. and Lakeside Ry.) 42 m, of which 1.13 are cable and 40.87 elec, 21 m s, 4-8 1/2 g, 45, 60 lb girder and T r, 71 c, of which 2 are g c, 66 m c and 3 t c. Gen. Elec. and Westinghouse systems. Laclede and Northern cars. Allis engines. 1,312 H. P. Babcock & Wilcox boilers. Pres. L. Mendenhall, V. Pres. G. H. Hartley, Sec. & Treas. T. W. Hoopes, Gen. Man. Supt. & Pur. Agt. H. Warren, Ch. Engr. & Ch. Engr. of Power Station M. Noble, Elecn. L. E. Fairchild, T. Armstrong, Office, 209 First Nat. Bank Bldg. 9 5

Lakeside Ry. Co. (Operated by Duluth St. Ry. Co.) 8.4 m, 4.2 m s, 4-8 1/2 g, 45 lb T r, 6 m c. Gen. Elec. system. Laclede and Northern cars. Pres. D. G. Cash, V. Pres. G. F. Chester, Sec., Treas. & Gen. Man. W. C. Sargent. 9 5

Minnesota Point St. Ry. 3 1/2 m, 3-6 g, 24 lb T r, 8 c 16 h. Pres. & Gen. Man. J. J. Hilbard, V. Pres. R. P. Edson, Sec., W. Warner, Treas. B. Silberstein, Supt. E. Wakelin. 12 4

Motor Line Improvement Co. (Operated by Duluth St. Ry. Co.) 6 m, 4-8 1/2 g, 45 lb T r, 4 m c. Gen. Elec. system. Laclede cars. Pres. G. H. Hartley, V. Pres. J. D. Stryker, Sec. T. W. Hoopes, Treas. A. R. Macfarlane, Gen. Mans. Mendenhall & Hoopes. Office, 12 3d Ave. W. 9 5

DU QUOIN, ILL.—Du Quoin St. R. R. Co. 3 m, 4-8 1/2 g, 57 lb T r, 3 c, 3 h. Pres. & Gen. Man. P. D. Miffitt, V. Pres. C. Horn, Sec. & Pur. Agt. D. White, Treas. P. N. Pope. 9 5

DURANGO, COLO.—Durango Ry. & Realty Co. 2 m, 2 m s, 4-8 1/2 g, 30 lb T r, 4 c, of which 2 are m c, and 2 t c. Westinghouse system. Woebler cars. Ide engines. Pres. J. A. Potter, V. Pres. J. B. Harper, Sec. W. S. Pickerill, Treas. H. Schiffer, Gen. Man. Supt. & Pur. Agt. H. J. Arnold, Elecn. J. J. McLarin. 9 5

DURHAM, N. C.—Durham St. Ry. Co. 2 m, 4-8 1/2 g, 16 lb T r, 4 hox c, 4 mu. Pres. J. S. Carr, V. Pres. A. B. Anderson, Sec. R. H. Wright. 8 3

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EAST LIVERPOOL, O.—East Liverpool & Wellsville St. R. R. Co. Elec. 8 1/2 m, 4-8 1/2 g, 56 lb T and 81 lb girder r, 20 m c. Short and Westinghouse systems. Brill and Stephenson cars. Pres. & Gen. Man. A. L. Johnson, Sec. & Treas. C. H. J. Davis, Supt. R. L. Andrews. 9 5

EASTON, PA.—Easton Transit Co. (Includes Pennsylvania Motor Co., Weygott Mountain Ry. Co., Philadelphia H. C. Ry. Co., Easton & Bethlehem Transit Cos. and Easton Amusement Co.) 26 m, 20 m s, 5-2 1/2 g, 70 lb girder r, 51 c, of which 49 are m c and 2 t c, one sweeper and two snow plows. Westinghouse system. Brill, Lamokin and own cars. Power rented. Pres. H. Riney, V. Pres. J. S. Rodenbough, Sec. & Treas. A. D. Childsey, Managing Dir. F. H. Knight, Dispatcher W. M. Williams. Treas. office, 1 and 2 Trust Building, Main office 16th and Washington sts. 9 5

EAST ST. LOUIS, ILL.—East St. Louis Electric St. Ry. Co. 14 m, 4-10 g, 18 m c. Gen. Elec. system. St. Louis cars. Hamilton-Corliss and Porter-Allen engines. Pres. John Scullin, V. Pres. H. D. Sexton, Sec and Treas. Harry Scullin, Supt. Michael Harold. Office East St. Louis, Ill. 5 5

EAST WAREHAM, MASS.—East Wareham Onset Bay & Point Independence St. Ry. Co. 3.02 m, 2.01 m s, 4-8 1/2 g, 25, 35 lb T r, 14 c, 19 h. Pres. T. B. Griffith, Sec. B. F. Gibbs, Treas. & Supt. I. B. E. Bridge. 4 5

EAU CLAIRE, WIS.—Eau Claire St. Ry. Lt. & Power Co. 6 m, 4-8 1/2 g, 35-45 lb c & s b r, 8 m c. Gen. Elec. system. Receiver G. B. Wheeler. 9 5

ELGIN, ILL.—Elgin City Ry. 20 m, 4-8 1/2 g, 40, 60 lb T and girder r, 24 c, of which 15 are m c and 9 t c. Gen. Elec. system. Pullman cars. Ball engines. Pres. W. Grote, V. Pres. J. B. Lane, Sec. & Treas. A. B. Church, Gen. Man. C. Wuestenfeld. 10 5

Elizabeth St. Ry. Co. 3 1/2 m, 5-2 g, 32 and 52 lb girder r, 13 c, 50 h. Pres. F. L. Heidritter, V. Pres. A. Heidritter, Sec. & Treas. E. C. Woodruff, Supt. J. C. Husbands. Office, foot of East Jersey st. 2 5

ELKHART, IND.—(See Goshen, Ind.)

ELMIRA, N. Y.—Elmira & Horseheads St. Ry. Co. (Owned by Elmira Municipal Improvement Co.) Elec. 15.72 m, of which .83 is horse and 14.89 elec, 4-8 1/2 g, 38, 78 lb T and girder r, 48 c, of which 2 are h c, 19 m c and 27 t c, 8 h. Gen. Elec. and Westinghouse systems. Brill and Stephenson cars. McIntosh & Seymour engines. Power rented. Pres. Thos. Ryan, Sec. & Treas. J. M. Dixon, Gen. Man., Supt., Pur. Agt. & Ch. Engr. J. B. Cahoon, Elecn. T. Mack, Office, Robinson Bldg., Lake St. 9 5

West Side R. R. Co. Elec. 9 m, 7 1/2 m s, 4-8 1/2 g, 70, 90 lb T and girder r, 29 c, of which 28 are m c and 1 t c. Gen. Elec. system. Brill and Stephenson cars. Bates-Corliss engines. Pres. C. M. Tompkins, V. Pres. A. E. Akeley, Sec. & Treas. H. H. Hallcock, Gen. Man. & Pur. Agt. W. W. Cole, Asst. Supt. W. J. Jones, Ch. Engr. & Ch. Engr. of Power Station P. Kaufel, Elecn. J. Hendricks. Office, 123 Baldwin st. 9 5

EL PASO DE ROBLES, CAL.—El Paso de Robles St. Ry. 5 m, 3 g, 16 lb T r, 2 box c, 6 h Props. Putnam & Hord. Office Adams Block, cor Spring & 12th sts. 4 4

EL PASO, TEX.—El Paso & Juarez Ave. St. Ry. Co. 3 1/2 m, 3 1/2 m s, 4-8 1/2 g, 35 lb T r, 10 c, 50 mu. Brownell cars. Pres. Z. T. White, Sec. J. J. Bruck, Supt. & Pur. Agt. A. Larmour. 10 4

San Antonio & Magoffin St. Ry. Co. 4 m, 4-8 1/2 g, 30 lb T r, 3 c, 9 mu. Pres. Z. T. White and J. Magoffin, Sec. Supt. & Pur. Agt. A. Larmour. 10 4

ELWOOD, IND.—Elwood Electric St. Ry. Co. 5 m, 5 m s, 4-8 1/2 g, 60 lb T r, 5 m c. Gen. Elec. system. Barney & Smith cars. Ide and Russell engines. Pres. J. H. DeHority, V. Pres. C. I. Taylor, Sec. Treas. & Pur. Agt. S. B. Harting, Gen. Man. O. B. Frazier. 9 5

EMPORIA, KAN.—Emporia City Ry. Co. 3 1/2 m, 3-6 g, 20 h r, c, 24 h. Pres. Van R. Holmes, Treas. A. F. Crowe, Sec. & Man. J. D. Holden. 12 4

ENSLEY, A.I.A.—Ensley Ry. Co. (Consolidated with Birmingham Ry. & Elec. Co.)

ERIE, PA.—Erie Elec. Motor Co. (Operates Erie City Pass. Ry.) 25 m, 4-8 1/2 g, 52 lb Johnson girder r, 174 c, of which 87 are h c, 77 m c and 10 t c, 4 h and mu. Gen. Elec. system. Pres. J. S. Cament, V. Pres. J. C. Brady, Sec. & Treas. J. L. Sternberg, Office 202 State st. 7 4

ESCANABA, MICH.—Escanaba Electric St. Ry. Co. Elec. 4 m, 4-8 1/2 g, 40 lb T r, 4 m c. Westinghouse system. St. Louis cars. McEwen engines. Pres. J. Little, Sec. J. B. Moran, Treas. J. K. Stark, Supt. & Elecn. F. C. McGovern. 9 5

ESSEX, MASS.—(see Salem, Mass.)

EUREKA, CAL.—Eureka St. R. R. Co. 4 1/2 m, 4-8 1/2 g, 14, 36 lb T & flat r, 6 box c, 13 h, 7 mu. Holt and N. B. & M. Ry. cars. Pres. & Gen. Man. R. M. Fernald, Supt. J. A. Clark. 7 4

EUREKA SPRINGS, ARK.—Eureka Springs Elec. Lt. & St. Ry. Co. 2 1/2 m, 4-8 1/2 g, 35 lb T r, 5 c, 17 mu. St. Louis cars. Pres. Sec. & Gen. Man. J. D. Jordan, V. Pres. C. F. Ellis, Treas. T. N. Cloffin, Supt. W. J. Wallace. 8 3

EVANSVILLE, IND.—Evansville St. Ry. Co. 27 m, 15 m s, 4-8 1/2 g, 60 lb T r, 75 c, of which 50 are m c and 25 t c. Westinghouse engines. Brownell and St. Louis cars. Westinghouse engines. Pres. J. J. Sulphard, V. Pres. Sec. & Gen. Man. H. D. Moran, Treas. T. S. Krutz, Supt. J. Cast, Elecn. W. L. Stockton. Office, 102 Main St. 9 5

EVERETT, WASH.—Everett Ry. & Electric Co. 7 m, 5.6 m s, 4-8 1/2 g, 35 lb girder r, 5 m c. Westinghouse system. American cars. Ball engines. Pres. G. Colby, V. Pres. & Treas. J. B. Crooker, Sec. H. A. Scheuck, Gen. Man. & Supt. W. D. Ray. 9 5

EXCELSIOR SPRINGS, MO.—Excelsior Springs R. R. Co. 12 4 8

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FAIRHAVEN, WASH.—Fairhaven & New Whatcom Ry. Co. Elec. 18 1/2 m, 4-8 1/2 g, 40, 56 lb T r, 16 m c, T-H system. Brill cars. Ide engines. Pres. H. Eldridge, V. Pres., Gen. Man. & Supt. E. Cosgrove, Sec. G. C. Hyatt, Treas. C. C. Fisher. 1 5

FALL RIVER, MASS.—Globe St. Ry. Co. 27 m, 16 m s, 4-8 1/2 g, 45, 48 1/2, 75 lb girder r, 88 m c, 6 h. Gen. Elec. system. Feigel, Jones, Newburyport and Stephenson cars. McIntosh & Seymour engines. 675 H. P. Babcock & Wilcox boilers. Pres. Frank S. Stevens, Sec. M. G. B. Swift, Treas. & Gen. Man. R. S. Goff, Supt. John H. Bowker, Ch. Engr. Power Station G. B. Esterly, Elecn. G. W. Palmer, Jr. Office, 182 N. Main st. 12 4

FINDLAY, O.—Findlay St. Ry. Co. (Operated by Northern Ohio & Lake Erie Ry., Lt. & Power Co.) Elec. 13 m, of which 4 are horse and 9 elec., 4-8 1/2 g, 60, 70 lb T r, 17 c, of which 5 are h c, 10 m c and 2 t c, 4 h, 32 mu. Westinghouse system. Laclede cars. Buckeye engines. Pres. G. B. Kerper, V. Pres. J. A. Bope, Sec. J. Strader, Treas. C. D. Kinney, Gen. Man. & Pur. Agt. C. Smith, Elecn. W. Twining, Ch. Engr. of Power Station W. Nushaum. Office N. Main St. 9 5

Northern Ohio & Lake Erie Ry., Lt. & Pow. Co. (Operates Findlay St. Ry. and Tiffin Elec. Ry.)

FISHKILL-ON-HUDSON, N. Y.—Citizens' St. Ry. Co. 3 1/2 m, 3 m s, 4-8 1/2 g, 45, 54 lb T & girder r, 11 m c. Gen. Elec. system. Gilbert cars. Fishkill Land-Ing engines. Pres. Gen. Man. & Pur. Agt. J. T. Smith, V. Pres. W. H. Weston, Sec. S. K. Phillips, Treas. W. H. Southard, Supt. W. E. Havens, Ch. Engr. W. E. Blakely. 9 5

Fishkill Electric Ry. Co. Leased to and operated by the Citizens St. Ry. Co. 4 m, 56 lb T r. Pres. J. T. Smith, V. Pres. E. L. Tompson, Sec. S. K. Phillips, Treas. W. H. Southard. 9 5

FITCHBURG, MASS.—Fitchburg & Leominster St. Ry. Co. 16 m, 4-8 1/2 g, 58, 90 lb T and girder r, 33 c, of which 25 are m c and 8 t c, 9 h Westinghouse system. Brill, Jones, Lamokin and Newburyport cars. Westinghouse engines. Pres. H. A. Willis, V. Pres. H. L. Wallace, Sec. C. F. Baker, Treas. R. N. Wallis, Supt. W. W. Sargent, Act. Supt. & Pur. Agt. H. R. Preble, Elec. P. L. LeNoir, Ch. Engr. of Power Station A. H. Moore. 8 5 j e

FLUSHING, N. Y.—Flushing & College Point Electric Ry. Co. 4 m, 4 m s, 4-8 1/2 g, 47 lb s, b, r, 9 c, of which 5 are m c and 4 t c. Westinghouse system. Brill, Jones and Stephenson cars. N. Y. Safety engines. 1 4

FOND DU LAC, WIS.—Fond du Lac Power & Ry. Co. 5 m, 4-8 1/2 g, 35 lb T and tram r, 8 c, of which 6 are m c and 2 t c. Westinghouse system. Pullman cars. Ball engines. Owner M. D. Moore. 1 5 s

FORT MADISON, IA.—Fort Madison St. Ry. Co. Elec. 4 1/2 m, 4 m s, 4-8 1/2 g, 56 lb T r, 12 c. Westinghouse system. Wells, French Co. cars. Pres. & Gen. Man. D. A. Morrison, Sec. H. Jones, Treas. J. C. Brewster, Supt. F. H. Weber. Office, Santa Fe Ave. 9 5

FORT MEADE, FLA.—Fort Meade St. Ry. Co. 1 1/2 m, 1 1/2 m s, 3 g, 25, 30 lb T r, 2 c, 2 mu. Pres. L. B. Flood, V. Pres. M. Reif, Sec. H. L. Rockner, Treas. Gen. Man. & Pur. Agt. J. G. Carter. 9 5 s

FORT SCOTT, KAN.—Fort Scott Rapid Transit Co. (Operated by Davenport & Fort Scott Investment Co.) 10 m, of which 1 1/2 are horse and 8 1/2 elec. 4 g, 35 lb T r, 12 c, of which 6 are h c, and 6 m c, 2 h. Edison system. St. Louis cars. Beck engines. Pres. H. H. Anderson, Sec. F. H. Giggis, Treas. J. Lorenze, Supt. & Pur. Agt. W. D. Mitchell, Elec. J. Tegardy, Ch. Engr. of Power Station J. Hunt. Office Wall & Main Sts. 9 5

FORT SMITH, ARK.—Fort Smith St. Ry. Co. 8 1/2 m, 3-6 g, 38 & 45 lb girder r, 22 c, 86 h. Brownell and Laclede cars. Pres. Gen. Man. & Pur. Agt. Sam'l McLeod, V. Pres. Benj. T. Duval, Sec. & Treas. Geo. T. Sparks, Supt. B. S. Corbett. Office, Cor. Third & A Sts. 9 5

FORT WAYNE, IND.—Fort Wayne Electric Ry. 22 m, 16 m s, 4-8 1/2 g, 40, 60 lb T r, 65 c, of which 57 are m c and 8 t c, 6 h. Short system. Jones cars. Bass engines. Pres. J. H. Bass, V. Pres. & Treas. M. S. Robinson, Jr., Sec. J. M. Barrett, Supt. L. D. McNutt. 9 5

Lakeside Electric Ry. 1 m, 52 lb s b Duplex & T r. Gen. Elec. system. Gen. Man. J. D. McDonald. 8 3

FORT WORTH, TEX.—Fort Worth St. Ry. Co. Elec. 10 m, 4 g, 35 lb and 52 lb T r, 21 c, of which 19 are m c and 2 t c. Gen. Elec. system. Brownell cars. Hamilton-Corliss engines. Pres. K. M. VanZandt, V. Pres. M. Jones, Sec. J. B. Burnside, Gen. Man. & Pur. Agt. G. B. Hendricks, Supt. J. W. Renfro, Ch. Engr. of Power Station. Wm Kirby, Elec. J. S. E. Lee. Office 409 1/2 Main St. 9 5

Fort Worth & Arlington Heights St. Ry. Co. 6 1/2 m, 4 g, 35 lb T r, 8 m c. Gen. Elec. and Westinghouse systems. Pullman and Woerber cars. Ideal engines. Receiver Robert McCart, Gen. Man. Pur. Agt. Elec. & Supt. S. Horn, Ch. Engr. of Power Station J. A. Winn. Address, P. O. Box 68. 9 5

City Ry. Co. 7 1/2 m, 7 1/2 m s, 4 g, 30, 35 lb T r, 16 c, of which 14 are m c and 2 t c, 2 mu. Detroit system. Pullman cars. Ide engines. Pres. L. Warfield, Sec. J. C. Terrall, Jr., Treas. J. C. Harrison, Gen. Man. Supt. & Pur. Agt. W. P. Quigg, Elec. S. Gerthey. 12 4

Glenwood & Polytechnic St. Ry. Co. 2 1/2 m, 4 g, 20 lb T r, 2 c, 10 mu. V. Pres. R. Vickery, Sec. H. G. Borney, Gen. Man. E. Fostick. 12 4

FRAMINGHAM, MASS.—Framingham Union St. Ry. Co. 7.35 m, 6.91 m s, 4-8 1/2 g, 30, 35 lb T and s, b, r, 17 c, 40 h. Pres. Jas. R. Entwistle, Sec. I. B. Forbes, Treas. F. E. Gregory, Supt. J. J. Hennessy, Office, S. Framingham. 10 4 s

FRANKFORD, KY.—Capital Ry. of Frankfort, 4 m, 56 lb T r, 3 m c, 1 rt, m c. Jeuncy system. Barney & Smith cars. Dick & Church engines. Pres. J. P. McDonald, Sec. & Gen. Man. J. T. Buckley. 1 5 4

FRANKFORT, N. Y.—Frankfort & Ilion St. Ry. Co. 2.63 m, 2.5 m s, 5 g, 25 lb T r, 5 c, of which 4 are box and 1 open. 6 h. Pres. J. H. Hoard, V. Pres. J. Loftis, Sec. W. I. Piper, Treas. W. W. Crosby, Supt. J. Myers. Office, Frankfort. 7 4 s

FRANKLIN, PA.—Franklin Electric St. Ry. Co. 3 1/2 m, 3 1/2 m s, 4-8 1/2 g, 60 lb T r, 4 m c. Gen. Elec. system. American and St. Louis cars. Rent power. Pres. A. H. McKelvey, V. Pres. J. H. Donly, Sec. Supt. and Pur. Agt. H. R. McCallum, Treas. E. W. Echols, Elec. W. H. Pape. Office 5 Park St. 9 5

FREDONIA, N. Y.—Dunkirk & Fredonia R. R. Co. 3.7 m, 3.5 m s, 4-8 1/2 g, 42, 48 1/2 lb c, b, T and girder r, 11 c, of which 4 are m c and 7 t c. Edison and Westinghouse and Walker systems. Brill and Briggs cars. Dick & Church and Noye engines. Pres. W. McKinstry, Sec. Treas. Pur. Agt. & Gen. Man. M. M. Fenner, Ch. Eng. & Elec. J. Larsen, Ch. Engr. of Power Station A. Kurniski. 9 5

FREEDPORT, ILL.—Freedport Electric Co. 6 m, 5 m s, 4-8 1/2 g, 56 lb T r, 12 c, of which 6 are m c and 6 t c. Westinghouse system. Brill cars. Ball and Ball & Wood engines. Trustee J. C. Sibby, Gen. Man. H. Mutchler, Supt. A. J. Cooper, Elec. G. Curric. 12 4 s

FREMONT, NEB.—City St. Ry. Co. 6 1/2 m, 4-8 1/2 g, 140 lb T r, 7 c, 24 h. Pres. F. Fowler, V. Pres. F. Meyer, Sec. Treas. & Gen. Man. E. N. Morse. 4 5 s

FREMONT, O.—Fremont St. Ry. Co. 1 1/2 m, 1 1/2 m s, 4-8 1/2 g, 40 lb flat r, 1 m c. Receiver G. Slessman, Pres. F. N. Carter, 29 Euclid ave., Cleveland, O., Sec. & Treas. T. M. Irvine, Cleveland, O., Supt. E. J. Carter. Office, 307 Croghan st. 10 4 f e

FRESNO, CAL.—Fresno R. R. Co. 4 1/2 m, 4-8 1/2 g, 20 lb r, 7 c, 7 h. Pres. Dr. L. Leach, V. Pres. R. E. Hughes, Sec. N. I. Baldwin, Treas. L. Einstein. 11 0

Fresno, Belmont & Yosemite R. R. Co. 4 m, 4-8 1/2 g, 20 lb steel T r, 6 c, 12 h, 6 mu. Stockton cars. Pres. T. C. White, V. Pres. H. P. Hedges, Sec. J. P. Vincent, Gen. Man. C. L. Walter. Leased to C. L. Walter. 9 3

FREYBURG, ME.—Freyburg Horse R. R. Co. 8 m, 4 3/4 g, 16 lb steel T r, 4 c, 1 h. Pres. Freeman Hatch, Gen. Man. Supt. & Pur. Agt. Seth W. Flefe, Treas. John Locke. 9 5

FULTON, N. Y.—Fulton & Oswego Falls St. Ry. Co. 1.14 m, 1.14 m s, 4-8 1/2 g, 42 1/2 lb r, 4 c, of which 3 are box and 1 open, 8 h. Pres. Joseph Walker, Jr., V. Pres. N. N. Stranahan, Sec. & Treas. Charles

Lyman, Supt. E. Quirk. Office, 15 Broad st., New York. 7 4 s

C

GADSDEN, ALA.—Gadsden & Attalla Union Ry. Co. Dummy. 1 1/2 m, 4-8 1/2 g, 45 lb T r, 41 c. 5 engines. Brill cars. Baldwin engines. Pres. J. M. Elliott, Jr., V. Pres. C. A. Lyerly, Sec. Supt. & Pur. Agt. J. H. Wragg, Treas. & Gen. Man. J. M. Elliott, Jr., Ch. Engr. W. M. Venerable. Office 123 N. 4th st. 9 5

GAINESVILLE, GA.—Gainesville & Hall Co. St. R. R. Co. 5 m, 4-8 1/2 g, 20 lb crescent r, 3 c, 3 h, 4 mu. Pres. Sec. & Treas. H. H. Dean, V. Pres. A. D. Candler. Capital, \$15,000. Leased to G. P. Boone for three years from Oct. 1, 1891. Office, 10 Spring st. 4 4

GAINESVILLE, TEX.—Gainesville St. Ry. Co. 3 1/2 m, 4-8 1/2 g, 36 lb T r, 8 c, 16 mu. Pres. J. M. Lindsay Gen. Man. & Supt. G. W. Lindsay. Office, Fort Worth. 2 3

GALESBURG, ILL.—Galesburg Electric Motor & Power Co. 9 m, 8 1/2 m s, 4-8 1/2 g, 50 lb T r, 20 c, of which 10 are m c and 10 t c. Westinghouse system. American and Pullman cars. Westinghouse engines. Pres. R. Chappell, V. Pres. O. F. Price, Sec. & Pur. Agt. H. F. Arnold, Treas. W. Seacord, Ch. Engr. of Power Station R. W. Whipple. Office 540 Main St. 4 5 s

GALLIPOLIS, O.—Gallipolis St. Ry. Co. 6 m, 4-8 1/2 g, 30 lb T r, 6 c, of which 5 are m c and 1 t c. Gen. Elec. system. Receiver H. R. Bradbury, Gen. Man. F. E. Mohr, Pur. Agt. T. E. Bradbury, Elec. F. McDaniel. 4 5 s

Gallipolis & Point Pleasant Ry. Co. 5 m, 4-8 1/2 g, 60 lb T r, 8 c, of which 4 are m c and 4 t c. Gen. Elec. system. Barney & Smith cars. Pres. John L. Vance, Sec. & Treas. H. C. Johnston, Supt. Pur. Agt. & Elec. F. R. Vance. 9 5

GALT, ONT.—Galt, Preston & Hespeller Electric Ry. Co. 9 m, T r, 4 m c, 3 t c, 1 electric motor freight c, 1 Baldwin locomotive. Can. Gen. Elec. and Westinghouse systems. Wheelock engines. Pres. Thos. Todd, V. Pres. R. G. Cox, Sec. & Treas. W. H. Lutz. 9 5

GALVESTON, TEX.—Galveston City R. R. Co (Controls and operates Gulf City Ry. & Real Estate Co.) 40 m, 39.5 m s, 4-8 1/2 g, 40, 52 lb T r, 62 c, of which 52 m c and 10 t c. Westinghouse system. Laclede and St. Louis cars. Buckeye and Cooper engines. Pres. Julius Runge, Sec. H. M. Kellner, Treas. J. Lobit, Supt. J. K. Urle, Pur. Agt. C. C. Williams, Ch. Engr. & Ch. Engr. of Power Station F. Gwartnev. Office, 1 and Center Sts. 9 5

GARDENVILLE, N. Y.—Buffalo, Gardenville & Ebenezzer Railway Co. 4.5 m, 4-8 1/2 g, 60 lb T r, 2 m c. Gen. Elec. system. Jackson & Sharp cars. Noye engines. Pres. Chas. Schoepflin, V. Pres. E. H. Ballou, Sec. W. P. Smith, Treas. Wm. F. C. Trier, Gen. Man. Chas. Schoepflin, Supt. R. E. Danforth. Office, Gardenville, N. Y.

GARDNER, MASS.—Gardner Electric St. Ry. Co. 4 1/2 m, 4-8 1/2 g, 45 lb T r, 6 m c, 2 h. Westinghouse system. Jackson & Sharp cars. Phlog. engines. Pres. F. S. Coolidge, V. Pres. E. F. Blodgett, Sec. & Treas. J. A. Stiles, Gen. Man. Supt. & Pur. Agt. M. A. Coolidge. 9 5

GENEVA, N. Y.—Geneva & Waterloo Ry. Co. (Owned by Geneva, Waterloo, Seneca Falls and Cayuga Lake Park Co.) 10 m, 10 m s, 4-8 1/2 g, 60, 70 lb T and girder r, 6 c, of which 4 are m c and 2 t c, 2 h. Short system. Barney & Smith cars. Ball & Wood engines. Pres. T. Craig, Sec. L. G. Hoskins, Treas. J. B. Reilly, Supt. T. M. Linn, Ch. Engr. S. G. Gann, Elec. G. B. Fairbanks, Ch. Engr. of Power Station J. E. Sliney. 8 5

GEORGETOWN, KY.—Georgetown St. Ry. Co. 1 1/2 m, 4-8 1/2 g, 20 lb T r, 2 c, 6 mu. Pres. S. M. Davis Sec. W. Z. Thomson, Treas. A. H. Sinclair. Leased to John Cole. 1 4

GETTYSBURG, PA.—Gettysburg Electric Ry. Co. 8 m, 4-8 1/2 g, 56 lb T r, 6 c, of which 3 are m c and 3 t c. Brill cars. Pres. & Supt. E. M. Hoffer, Gen. Man. A. G. Davids, Sec. H. G. Walmer, Treas. G. P. Hoffer. 9 3 j e

GRANDVILLE, PA.—Schuylkill Traction Co. (Lessee of Mahanoy, Shenandoah Girardville & Ashland St. Ry.) 2 1/2 m, 10 m s, 4-8 1/2 g, 50, 60 lb T r, 22 m c. Westinghouse system. Brill and Lamokin cars. Frick engines. Pres. D. Sanders, Sec. & Treas. J. A. Johann, Gen. Man. & Pur. Agt. E. W. Ash. 4 5 s

GLENS FALLS, N. Y.—Glens Falls, Sandy Hill & Fort Edward St. R. R. Co. 9 m, 4-8 1/2 g, 40 lb T r, 14 m c. Westinghouse system. Gilbert and Jones cars. Bates and Knowles & Kelly engines. Pres. J. M. Coolidge, V. Pres. L. Allen, Sec. Treas. & Pur. Agt. J. A. Powers, Supt. J. E. Derrick, Ch. Engr. E. A. Clark. 9 5

GLOUCESTER, MASS.—Gloucester St. Ry. Co. 9.09 m, 9.09 m s, 4-8 1/2 g, 40-60 lb T and girder r, 13 m c, 2 h. Gen. Elec. and Detroit systems. Pres. W. B. Ferguson, V. Pres. J. H. Cunningham, Sec. D. S. Presson, Treas. A. D. Bosson, Supt. A. R. Hallowell. Office, Gloucester st. 10 4 s

Gloucester, Essex & Beverly St. Ry. Co. 17 m, 16.5 m s, 4-8 1/2 g, 50 lb T r, 17 m c. Walker system. Jackson & Sharp cars. M. & I. engines. Pres. & Pur. Agt. W. B. Ferguson, Sec. & Treas. G. A. Butman, Supt. W. A. Larrabee. Office, 53 State St, Boston, Mass. 11 5

GLOUCESTER, N. J.—Camden, Gloucester & Woodbury Ry. Co. (See Camden, N. J.)

GLOVERSVILLE, N. Y.—Fonda, Johnstown & Gloversville R. R. Co. (Leases Cayadutta Electric R. R. and Johnstown, Gloversville and Kingsboro Horse R. R.) 31.29 m, 4-8 1/2 g, 50.90 lb T and girder r, 18 c, of which 14 are m c, and 4 t c. Brill and Gilbert cars. Russell engines. Pres. J. Shanahan, V. Pres. J. P. Argersinger, Sec. G. M. Peace, Treas. J. L. Hees, Supt. R. T. McKeever. 4 5 s

GOSHEN, IND.—Indiana Electric Ry. Co. (Owns Elkhart St. Ry. Co. and Goshen & Wabash Ry. Co.) 70 m, 45, 60 lb T r. Pres. & Gen. Man. J. J. Burns, Sec. W. L. Stonex, Gen. Man. H. P. Myton. 4 5

GRAND ISLAND, NEB.—Grand Island St. Ry. Co. 7 m, 4-6 g, 20 & 35 lb T r, 7 c, 40 h & mu. Water-100 cars. Pres. & Treas. H. T. Toenuk, V. Pres. and Gen. Man. H. C. Toenuk, Sec. H. T. Fehrman. 9 5

GRAND JUNCTION, COL.—Grand Junction St. Car Co. 1 1/2 m, 1 1/2 m s, 3 g, 22 lb T r, 2 c, 2 h. Pres. B. Cannon, V. Pres. G. Wheeler, Sec. & Treas. T. B. Crawford, Gen. Man. & Supt. B. K. Kennedy. 12 4

GRAND RAPIDS, MICH.—Consolidated St. Ry. Co. 49.27 m, 27.02 m s, 4-8 1/2 g, 45, 66 & 78 lb T and girder r, 174 c, of which 129 are m c and 45 t c, 6 h. Gen. Elec. system. Hamilton and Wheelock engines. Pres. A. J. Bowne, V. Pres. V. S. Kennedy, Gen. Man. G. S. Johnson, Sec. & Treas. O. S. Gaither, Asst. Sec. B. S. Hanchett, Jr., Supt. D. Campbell, Elec. F. L. Stevenson, Ch. Engr. of Power Station J. Cooper. Office, Lyon Street. 10 4 s h e

South Grand Rapids St. Ry. Co. 1 1/2 m. 1 5 s

GREAT FALLS, MONT.—Great Falls St. Ry. Co. 8.66 m, 8 1/2 m s, 4-8 1/2 g, 45 lb T and girder r, 11 c, of which 7 are m c and 4 t c. Gen. Elec. system. Northern cars. Water power. Receiver W. D. Dickinson, Pres. A. S. Bigelow, V. Pres. L. Lewisohn, Sec. & Treas. T. Nelson, Ch. Engr. of Power Station G. H. Jay. 2 5 s

GREEN BAY, WIS.—Fox River Electric Ry. Co. 6 1/2 m, 5 1/2 m s, 4-8 1/2 g, 45, 78 lb T and girder r, 11 c of which 7 are m c and 4 t c. Westinghouse system. Brill cars. Ball & Wood engines. Pres. C. H. Holmes, V. Pres. F. W. Holman, Sec. & Treas. J. H. Elmore, Gen. Man. & Pur. Agt. W. F. Harvey. 4 5 s

GREEN CASTLE, IND.—Green Castle City St. Ry. Co. 3 m, 4-8 1/2 g, 40 lb T r, 3 c, 10 mu. Pres. J. W. Weik, V. Pres. J. S. Dowling, Sec. & Treas. F. G. Gilmore, Pur. Agt. J. H. Deltrick. Office Crystal Palace cor. Vine and Walnut sts. 4 4

GREENSBURG, PA.—Greensburg & Hempfield Electric St. Ry. 2.4 m elec., 4-8 1/2 g, 35 & 45 lb girder & T r, 3 m c. Westinghouse system. Lamokin cars. Phoenix Iron Works engines. Pres. W. W. Jamison, Sec. & Treas. J. E. Keenan, Gen. Man. F. Y. Clopper, Supt. Pur. Agt. & Elec. R. C. Reamer. Office, Huff Building. 1 4

GREENVILLE, MISS.—Greenville St. Ry. Co. 6 m, 4-8 1/2 g, 25, 30 lb T r, 9 c, 15 h. Pres. J. M. Jayne, Sec. & Treas. J. E. Negus, Supt. C. H. Wheat. 1 4 s

GREENVILLE, S. C.—St. Ry. Co. of the City of Greenville. 2 1/2 m, 5 g, 16 lb crescent r, 6 c, 3 mu, T. C. Gower & Son, proprs. Pres. T. C. Gower, Sec. G. G. Wells, Supt. A. G. Gower. Office, 104 Washington st. 1 4

H

HALIFAX, N. S.—Halifax Electric Tramway Co. (successors to Nova Scotia Power Co., Ltd.) 10 m, 10 m s, 4-8 1/2 g, 60 & 73 lb girder and T r, 28 c of which 14 will be m c. Can. Gen. Elec. system. Rhodes & Curry cars. Robb engines. Provisional officers. Pres. J. Y. Payzant, Sec. & Treas. W. B. Ross. 9 5

HAMILTON, O.—Hamilton & Lindenwald Electric Transit Co. 9 m, 8 m s, 4-8 1/2 g, 45 lb girder r, 22 c, of which 14 are m c and 8 t c. Gen. Elec. system. Stephenson cars. Hamilton engines. Pres. Thos. Millikin, V. Pres. C. Benninghofen, Sec. Gen. Man. & Pur. Agt. Ira S. Millikin, Treas. P. Benninghofen, Ch. Engr. & Ch. Engr. of Power Station W. Sentney, Elec. W. Bowman. Office, 22 South Second St. 9 5

HAMILTON, ONT.—Hamilton St. Ry. Co. 22 m, 11 m s, 4-8 1/2 g, 62, 69 lb girder r, 75 c, of which 35 are m c and 40 t c. Westinghouse system. Jones Cars. Corliss and Wheelock engines. Pres. B. E. Charlton, V. Pres. B. E. Martin, Sec. Gen. Man. & Pur. Agt. J. B. Griffith, Elec. W. W. Dean, Ch. Engr. of Power Station H. Ralph. Office 11 Stuart St. West. 9 5

Hamilton, Grimsby & Beamsville Electric Ry. Co. 81 m, 17 m s, 4-8 1/2 g, 50, 70 lb T and girder r, 12 c, of which 8 are m c and 4 t c. Westinghouse system. Ottawa cars. Ingls engines. Pres. C. J. Myles, V. Pres. T. W. Lester, Sec. & Treas. A. Rutherford, Supt. A. J. Nelles, Elec. Supt. C. K. Green, Ch. Engr. of Power Station W. A. Sweet. Office, Main and Catherine streets. 9 5

HAMMOND, IND.—Hammond, Whiting & East Chicago Electric Ry. Co. 12 m, 12 m s, 4-8 1/2 g, 62 lb girder and T r, 9 c of which 7 are m c and 2 t c. Westinghouse system. Pullman cars. Ball and Providence engines. Pres. C. F. Griffin, V. Pres. N. M. Kaufman, Sec. Treas. & Gen. Man. A. M. Turner, Supt. A. J. Campbell. 4 5 s

HAMPTON, VA.—Hampton & Old Point Ry. Co. 3 1/2 m, 1 1/2 m s, 4-8 1/2 g, 45-72 lb T and girder r, 14 c, of which 7 are m c and 7 t c. Edison system. Brill cars. Frick engines. Pres. Gen. Man. Supt. & Pur. Agt. F. W. Darling, V. Pres. J. McMenamin, Sec. & Treas. H. L. Schmelz, Elec. J. B. Crankshaw, Ch. Engr. of Power Station F. L. Small. 10 4

HANNIBAL, MO.—Hannibal Ry. Co. Elec. 4 1/2 m, 4 1/2 m s, 4-8 1/2 g, 40 lb T r, 7 c, of which 4 are m c, and 3 t c. Gen. Elec. system. St. Louis cars. Hooven, Owens & Rentschler engines. Pres. & Supt. M. Doyle, Sec. & Treas. James O'Hearn, Ch. Engr. of power station. O. N. Emerson, Elec. J. S. Shelton. Office 300 Market St. 11 5

HARRISBURGH, PA.—Harrisburgh Traction Co. (consolidation of Citizens' Passenger Ry. Co. and East Harrisburgh Pass. Ry. Co.) 45 in, 5-2 1/2 g, 75 lb girder r, 84 c, of which 71 are m c and 13 t c. Gen. Elec. and Westinghouse systems. Brill, St. Louis and Lamokin cars. Wetherill and Harrisburgh engines. Pres. E. C. Felton, V. Pres. B. F. Myers, Sec. & Treas. W. J. Calder, Supt., Pur. Agt. & Elec. F. B. Musser 9 5

HARTFORD, CONN.—Hartford St. Ry. Co. Elec. 58 m, 4-8 1/2 g, 60 to 90 lb T, and girder r, 130 c, of which 101 are h c and 29 m c 468 h. Gen. Elec. and Westinghouse systems. Brill cars. Ball & Wood engines. Pres. E. S. Goodrich, V. Pres. S. G. Dunham, Sec. & Treas. Dan'l R. Howe, Gen. Man. N. McDonald Crawford, Elec. W. Grantin, Ch. Engr. of Power Station, F. Caum. Office, 346 Main st. 9 5

Hartford, Manchester & Rockville Tramway Co. 16 m, 4-8 1/2 g, 56 lb T r. Pres. M. S. Chapman, Sec. & Treas. H. J. Wickham. 7 4 s

Hartford & West Hartford Horse Railroad R. R. Co. 14 m, 13 1/2 m s, 4-8 1/2 g, 60 lb T r, 18 m c. Gen. Elec. system. Jackson & Sharp cars. Cooper engines. Pres. D. Henney, Sec. W. D. Simonds, Treas. E. Peckham, Gen. Man. & Pur. Agt. J. B. Henney, Supt. R. S. Rand, Elec. H. G. Clark, Ch. Engr. of Power Station R. J. Sheehan. Office 266 Pearl St. 9 5

HARVEY, ILL.—Harvey Transit Co. Elec. 3 m 4-8 1/2 g, 40 lb T r, 3 m c. Short system. Laclede cars. Ideal engines. Receiver, Chicago Title & Trust Co. Gen. Man. Supt. & Pur. Agt. W. J. McCorkindale, Ch. Engr. W. F. Kissel. 9 5

HASTINGS, NEB.—Citizens' St. Ry. Co. 5 1/2 m, 4-8 1/2 g, 16 & 32 lb T & flat r, 6 box c, 8 h. V. Pres

A. C. Badger, Gen. Man. & Supt. R. A. Batty, Sec. Rose E. Shedd, Treas. J. Hornshaw. 9 3

HAVERHILL, MASS.—Haverhill & Amesbury St. Ry. Co. 34 m, of which 5 are horse, 5½ steam and 21 elec. 32½ m s, 4-8½ g, 35, 50, 70 lb T & girder r, 45 c, of which 16 are h c, 20 are m c and 9 t c, 8 h Gen. Elec. and Westinghouse system. Newburyport cars. Corliss engines. Pres. Chas. Goss, Treas. G. A. Butman, Supt. & Pur. Agt. L. E. Lynde. Office, 53 State St., Boston. 10 5

Lowell, Lawrence & Haverhill St. Ry. Co. (See Lawrence, Mass.)

HAZLETON, PA.—Lehigh Traction Co. 23 m, 4-8½ g, 60 lb T r, 42 c, of which 38 are m c, 4 t c. Westinghouse system. Brill cars. Westinghouse engines. Pres. C. W. Kline, V. Pres. J. G. Seager, Sec. E. S. Doud, Treas. N. C. Yost, Gen. Man. A. Markle, Ch. Engr. A. E. Hess, Elecn. C. A. B. Houck. 9 5

HELENA, ARK.—Citizens' St. Ry. Co. 2½ m, 2½ m s, 4-8½ g, 20 lb T r, 4 c, 10 mu. St. Louis cars. Pres. H. S. Hornor, V. Pres. D. T. Hargraves, Sec. Gen. Man. & Pur. Agt. J. H. Thompson, Treas. S. H. Hornor. 9 5

HELENA, MONT.—Helena Power & Light Co. (Includes Helena Electric Ry. Co., Helena Rapid Transit R. R. and Helena Gas Light & Coke Co.) 24 m, 4-8½ g, 38-50 lb T and girder r, 24 c, of which 1 are m c and 8 t c. Gen. Elec. and Westinghouse system. Northern, Pullman and Stephenson cars. Corliss and Russell engines. Pres. H. M. Parthen, V. Pres. T. A. Marlow, Sec. H. L. Walker, Treas. H. Gans. 3 5 8

HENDERSON, KY.—Henderson Electric St. Ry. Co. 7½ m, 4-8½ g, 40 lb T r, 19 c, of which 12 are m c and 7 t c. Stephenson cars. S. & M. engines. Pres. W. E. Whitney, Gen. Man. J. N. Aisp, Treas. D. Banks, Jr., Supt. J. N. Miller, Ch. Engr. G. Tompkins, Ch. Engr. of Power Station, Wm. Hedges. 9 5

HENDERSONVILLE, N. C.—Hendersonville St. Ry. Co. 1½ m, 1½ m s, 4-8½ g, 30 lb T r, 3 h c, 1 h, 2 mu. Stephenson cars. Owner & Gen. Man. S. V. Pickens. Office, 18 End Main St. 9 5

HOBOKEN, N. J.—North Hudson County Ry. Co. 60 m, of which 28 are horse and 32 elec, 4 6½, 4-8½ g, 56, 67, 78 lb c. b. girder and T r, 25 c of which 171 are h c, and 179 m c, 930 h. Gen. Elec. system. Brill, Gilbert and Stephenson cars. Ball, Phila-Corliss and Watts-Campbell engines. Pres. M. Tierney, V. Pres. H. J. Bonn, Sec. T. J. Malory, Treas. J. F. W. Mangels, Gen. Man. W. H. Starr, Supt. Nicholas Goetz, Elecn. A. K. Bonta. Office, 21 Hudson Place. 9 8

HOLYOKE, MASS.—Holyoke St. Co. 18 m, 15 m s, 4-8½ g, 54 lb T r, 54 m c. Gen. Elec. system. Wason and Jones cars, Providence engines. 600 H. P. Babcock & Wilcox boilers. Pres. L. Perkins, Sec. W. R. Hill, Treas. Gen. Man. & Pur. Agt. Wm. S. Loomis, Supt. G. H. Hunter, Ch. Engr. of Power Station A. J. Barstow. Office 23 Canal St. 9 5

HOOSICK FALLS, N. Y.—Hoosick Ry. Co. 5½ m, 4-8½ g, 48 lb T r, 8 c of which 6 are m c and 2 t c Walker system. Morse cars. Pres. F. H. Twitchell, Sec. & Supt. & Pur. Agt. C. B. Story, Treas. G. C. Moses. 9 5

HORNELLVILLE, N. Y.—Hornellville Electric Ry. Co. 4 m, 4-8½ g, 56 lb girder and T r, 9 c, of which 5 are m c and 4 t c. Gen. Elec. system. Brill cars. Pres. C. Adist, Sec. D. M. Page, Treas. G. T. Rehn, Supt. & Ch. Engr. C. H. Wickham. Office, 119 Main St. 12 4

Hornellville & Canisteo Ry. Co. 4.5 m, 4-8½ g, 40 lb T r, 5 c, of which 3 are m c and 2 t c. Gen. Elec. system. Brill cars. Pres. D. M. Page, Sec. C. Adist, Treas. G. T. Rehn, Supt. & Ch. Engr. C. H. Wickham. Office 119 Main St. 12 4

HOT SPRINGS, ARK.—Hot Springs St. R. R. Co. Elec. 17.8 m, 4-0¾ g, 48 lb T r, 37 c, of which 18 are m c and 19 t c. 3 h. Gen. Elec. system. American and St. Louis cars. Pres. S. W. Fordyce, Sec. C. E. Maurice, Treas. Man. & Pur. Agt. C. G. Convers, Elecn. P. F. Bigler. Office, 615 Park Ave. 9 5

Fountain & Suburban R. R. Co. (Controlled by Hot Springs St. R. R. Co.) 1 m, 4 g, 35 lb T r, 1 c. 12 4 8

HOT SPRINGS, S. DAK.—Hot Springs & Cha. tauqua R. R. Co. 4 m, 4-8½ g, 2 m c. Short system. Pullman cars. Water power. Pres. & Treas. F. T. Evans, V. Pres. H. A. Clark, Sec. Gen. Man. Pur. Agt. & Elecn. W. H. Train, Supt. Ch. Engr. & Ch. Engr. of Power Station, W. S. Bush. 10 4

HOUSTON, TEX.—Houston City St. Ry. Co. (Operates Bayou City and Houston Heights Rys.) 40 m, 40 ms, 4-8½ g, 45 lb T r, 47 c, of which 41 are m c and 6 t c. Gen. Elec. system. Brill, Brownell, St. Louis and Stephenson cars. Allis engines. 164 H. P. Babcock & Wilcox boilers. Receiver J. H. Kirby, Pres. A. N. Parlin, V. Pres. H. F. MacGregor, Sec. and Treas. C. A. McKinney, Gen. Man. W. W. Wilson, Supt. R. Adair, Cashier and Pur. Agt. H. C. Chase, Ch. Engr. of Power Station J. F. Usener. Office, 502-4 Travis st. 9 5

HUDSON, N. Y.—Hudson Electric Ry. Co. 1.8 m, 1.66 m s, 35, 90 T and girder r, 4-8½ g, 5 m c. Gen. Elec. system. Pres. H. McGonegal, Vice-Pres. A. J. Rowles, Sec. E. J. Hodge, Treas. S. D. Lake. 7 4 8

HULL, MASS.—Hull St. Ry. Co. 2 m, 2 m s, 4 8½ g, 45 lb T r, 5 c, of which 4 are m c and 1 t c. Gen. Elec. system. Newburyport cars. Pres. E. P. Shaw, Treas. Geo. A. Butman, Supt. Geo. B. Larrabee. Office, 53 State St., Boston. 9 5

HUNTINGTON, I. N. Y.—Huntington R. R. Co. 3 m, 3 m s, 4-8½ g, 30 lb T r, 3 c, 10 h. Stephenson cars. Pres. E. D. Davidson, V. Pres. Temple. Prime, Sec. Geo. M. Tilleston, Treas. D. Conkling Gen. Man. & Pur. Agt. I. Rogers. 4 5 8

HUNTINGTON, W. VA.—Consolidated Light & Ry. Co. 10 m, of which 1 is horse and 9 elec, 9 m s, 4-8½ g, 30, 42, 60 lb T and girder r, 13 c, of which 6 are h c and 7 m c, 3 h. Westinghouse system. Laclede & St. Louis cars. Buckley, Hamilton and Taylor engines. Pres. J. L. Caldwell, V. Pres. F. McCullough, Sec. Gen. Man. & Pur. Agt. F. L. Doolittle, Treas. G. F. Miller, Supt. W. W. Magoon, Ch. Engr. & Ch. Engr. of Power Station J. A. Cassier, Elecn. E. M. Edwards. Office, 904½ 3d Ave. 9 5

HUNTSVILLE, ALA.—Huntsville Belt Line & Monte Sano Ry. Co. 12 m steam, 4-8½ g, 60 lb T r, 20 c. Pres. J. F. O'Shaughnessy, 36 Wall st, New York Office, Jefferson st. 2 2

HUTCHINSON, KAN.—Hutchinson St. Ry. Co. 8 m, 4-6 g, 20 lb T r, 14 c, 42 h. Brownell and

Laclede cars. Pres. Gen. Man. & Supt. L. A. Boebbe, Sec. & Treas. Thos. R. Beebe. Office, 8 E. Sherman St. 9 5

INDEPENDENCE, MO.—Kansas City, Independence & Park Dummy Line. (See Kansas City.)

INDIANAPOLIS, IND.—Citizens' St. R. R. Co. 100 m, 4-8½ g, 35 to 95 lb T and girder r, 252 c, of which 172 are m c and 80 t c. Gen. Elec. and Westinghouse systems. St. Louis and Pullman cars. Allis and Wheelock engines. 600 H. P. Babcock & Wilcox boilers. Pres. and Pur. Agt. A. L. Nason, V. Pres. W. L. Elder, Sec. & Treas. W. F. Millholland, Gen. Man. T. H. McLean, Elecn. H. B. Niles. Office West Washington Power Station. 7 5

Indianapolis & Broad Ripple Rapid Transit Co. 7 m, 4-8½ g, 60 lb T r, 25 c, of which 13 are m c and 12 t c. Gen. Elec. system. Fowler cars. Pres. Gen. Man. & Pur. Agt. R. C. Light, V-Pres. J. H. Ferguson, Sec. & Treas. W. Bosson, Supt. M. B. Dawson, Ch. Engr. H. B. Fontant, Elecn. G. Armontrant. Office 15-16 Lombard Building. 4 5 8

IRONTON, O.—The Ironton & Petersburg St. Ry. Co. 8 m, 4-8 g, 32 lb T and flat r, 13 c, 42 h. Pres. C. H. Harman, Sec. & Treas. Wm. M. Kerr, Supt. T. T. Johnson. Office, 32 Nassau St., New York. 4 5 8

IRONWOOD, MICH.—Twin City Ry. Co. 5½ m, 5½ ms, 4-8½ g, 45 lb T r, 4 m c. Gen. Elec. system. Allis engines. Pres. & Gen. Man. E. D. Nelson, V. Pres. H. M. Byllesby, Sec. & Treas. H. F. Jahn, Supt. & Pur. Agt. M. Kinch. 10 4

ITHACA, N. Y.—Ithaca St. Ry. Co. (Leases Ciyuga Lake Electric Ry.) 8½ m, 8 m s, 4-8½ g, 45, 60 lb T r, 22 c, of which 15 are m c and 7 t c. Gen. Elec. systems. Brill, Gilbert, Jackson & Sharp cars. Ball and McEwen engines and water power. Pres. H. E. Hand, V. Pres. A. Hand, Sec. Treas. & Gen. Man. H. Bergholtz, Supt. Pur. Agt. & Elecn. D. Thomson Ch. Engr. of Power Station L. C. Pierce. Office Savings Bank Building. 9 5

JACKSON, MICH.—Jackson Street Ry. Co. Elec 7 m, 6 m s, 4-8½ g, 45 T & lb girder r, 18 c, of which 10 are m c and 8 t c. Gen. Elec. system. Brill cars. Pres. Hiram H. Smith, Sr., V. Pres. D. S. Smith, Sec. Treas., Gen. Man. & Pur. Agt., Henry H. Smith, Jr., Office E. Main and Horton Sts. 9 5

JACKSON, MISS.—Jackson City R.R. 1½ m 4-8½ g, 4-4-wheel box c, 10 h. Pres. P. W. Peoples 3 2

JACKSON, TENN.—Jackson & Suburban St. R. R. Co. 7 m, 4 g, 30 lb tram r, 9-4-wheel box c, 30 mu Pres. J. H. Hunter, V. Pres. G. C. Anderson, Sec. J. W. N. Burkett, Treas. J. L. Wisdom, Atty. Hayes & Bond. Office, Royal St. at Five Points. 4 5 8

JACKSONVILLE, FLA.—Main St. R. R. Co. Elec. 3 m, 3 m s, 4-8½ g, 40 lb T r, 6 c of which 3 are m c and 3 t c. Gen. Elec. system. Stephenson & Brill cars. Rent power. Pres. S. B. Hubbard, V. Pres. W. A. MacDuff, Sec. & Pur. Agt. A. F. Perry, Elecn. Johnson Laid. Office, 26 Main st. 9 5

Jacksonville St. R. R. Co. 12 m, 5 g, 25 & 30 lb T & 35 lb c b r. Changing to electricity. 450 H. P. Babcock & Wilcox boilers. Pres. D. F. Jack, V. Pres. Geo. R. Foster, Treas. J. M. Lee, Savannah; Supt. M. E. Satchwell, Agent & Eng. M. H. Motte, Jacksonville. Office, Commercial st. 9 0 j e.

JACKSONVILLE, ILL.—Jacksonville Ry. Co. 5 m, 4-8½ g, 25-45 lb r, 21 c, of which 9 are m c, 12 t c 5 h. Detroit and Gen. Elec. systems. Pres. Wm. S. Hook, Sec. & Supt. Marcus Hook, Treas. Francis Hook. 4 5 8

JAMAICA, N. Y.—Jamaica & Brooklyn Road Co. (See Brooklyn, Queens Co. & Suburban R. R. Co., Brooklyn, N. Y.)

JAMESTOWN, N. Y.—Jamestown St. Ry. Co. 20 m, 4-8½ g, 30-70 lb T and girder r, 42 c, of which 38 are m c and 4 t c, 7 h. Short, Walker and Westinghouse systems. Brill cars. Noye and Phoenix engines. Pres. A. N. Broadhead, V. Pres. L. B. Warner, Sec. W. S. Cameron, Treas. S. B. Broadhead, Supt. & Pur. Agt. G. E. Maltby, Elecn. J. Swanson, Ch. Engr. of Power Station, C. Palmer. 9 5

JANESVILLE, WIS.—Janesville St. Ry. Co. 6 m, 5½ m s, 4-8½ g, 35 lb T r, 9 c, of which 6 are m c and 3 t c. Short system. Calumet and Laclede cars. Arlington & Sims engines. Pres. G. W. Blabon, V. Pres. G. A. Carrington, Gen. Man. W. R. Proudfoot, Elecn. Charles Reeder, Ch. Engr. of Power Station A. Gibson. Office, Power House, Academy st. 9 5

JEFFERSONVILLE, IND.—Jeffersonville City Ry. Co. 5 m, 4-8½ g, 20 & 35 lb steel T r, 11 c, 35 mu. Pres. Sec. & Treas. E. J. Howard, V. Pres. G. J. Long, Supt. E. Frazer. Office, 57-59 Spring st. 1 3

JERSEY CITY, N. J.—Consolidated Traction Co. (Controls Newark Passenger and Jersey City & Bergen railroads) Gen. Elec. and Westinghouse systems. Brill, Laclede and Stephenson cars, 4,000 H. P. Babcock & Wilcox boilers. Pres. E. F. C. Young, V. Pres. E. B. Gaddis, Sec. T. J. George, Treas. R. F. Ewer, Asst. Treas. E. N. Hill, Gen. Man. D. Young, Audr. E. D. Hibbs, Pur. Agt. G. Campbell, Gen. Supt. Francis Ellmaker, Elecn. Eng. C. F. Uebelacker, Ch. Engr. of Power Station G. E. Taicott, Roadmasters (Newark), A. W. Pratt. (Jersey City), J. W. Leahy. Office No. 1 Exchange Pl. 9 5

Jersey City & Bergen R. R. Co. (Controlled by Consolidated Traction Co. of New Jersey.) 44 m, 4-8½ g, 75 lb girder r, 125 m c. Curtis and Westinghouse systems. Brill, Laclede, Stephenson and Trimble cars. Pres. E. F. C. Young, V. Pres. & Gen. Man. D. Young, Sec. T. J. George, Treas. E. N. Hill. Office, No. 1 Exchange Pl. 9 5

JOHNSON CITY, TENN.—Johnson City & Carnegie St. Ry. Co. Elec. 4 m, 4-8½ g, 45 lb T r, 4 m c. Gen. Elec. system. Ellis cars. Power rented. Pres. E. Day, V. Pres. F. A. Stratton, Sec. Treas. Gen. Man. & Pur. Agt. E. H. Stevens, Elecn. W. Fraser. 10 4

JOHNSTOWN, PA.—Johnstown Pass. Ry. Co. 18.5 m, 4-8½ g, 75 lb girder r, 33 c, of which 19 are m c and 14 t c. Westinghouse motors. Ball and Westinghouse engines, Stephenson cars. Pres. Tom L. Johnson, V. Pres. & Treas. H. Banner, Sec., Gen. Man. and Pur. Agt., S. E. Young, Elecn. & Ch. Engr. of Power Station, C. J. Devine. Office Central Ave. 9 5

JOLIET, ILL.—Joliet St. Ry. Co. 16 m, 4-8½ g 38, 40, 55 lb. girder and T r, 24 c, of which 15 are m c and 9 t c. Gen. Elec. system. Brownell, Pullman and St. Louis cars. Bates and Lane & Bodley engines. Pres. & Gen. Man. J. A. Henry, V. Pres. &

Supt. J. W. Falk, Sec. Treas. & Gen. Man. J. Huilsizer Elecn. W. Stevens, Ch. Engr. of Power Station. E. G. Taylor. Office, S. W. corner Jefferson and Ottawa Sts. 6 5

JOPLIN, MO.—Joplin & Galena Electric Ry. Co. (Owns Joplin Electric Ry. & Motor Co. and Webb City, Joplin & Galena Ry. Co.) 5 m, 5 in s, 4-8½ g, 48-56 lb T and girder r, 19 c, of which 8 are m c and 2 t c. Gen. Elec. system. St. Louis cars. Ide engines. Pres. N. Hamilton, Sec. & Treas. E. Z. Wallower, Gen. Man. A. H. Rogers, Supt. J. M. Maret, Ch. Engr. E. J. Pratt. Offices, East Broadway, Joplin, and Harrisburg, Pa. 9 5

Southwest Missouri Electric Ry. Co. (See Webb City, Mo.)

KALAMAZOO, MICH.—Citizens' St. Ry. Co. of Kalamazoo. 11 m, 11 m s, 4-8½ g, 50 lb T r, 25 c, of which 13 are m c and 12 t c. Gen. Elec. system. Pres. T. P. Bailey, V. Pres. G. J. Kobusch, Treas. J. W. Johnson, Supt. W. M. Hawley. 4 5 8

KANKAKEE, ILL.—Kankakee Electric Ry. Co. 6 m, 4-8½ g, 50 lb T r, 6 c of which 5 are m c and 1 t c. Westinghouse system. Pullman cars. Pres. E. Cobb, V. Pres. H. K. Wheeler, Sec. & Treas. H. J. Sternberg, Gen. Man. C. H. Cobb. 1 5 8

North Kankakee Elec. L. & Ry. Co. 4½ m, 4½ m s, 4-8½ g, 40, 57 lb T and girder r, 3 m c. Detroit and Gen. Elec. systems. St. Louis cars. Phoenix engines. Pres. B. F. Uran, Sec. E. E. Day, Treas. A. D. Ehrlich, Gen. Man. & Supt. E. Powell. 4 5 8

KANSAS CITY, KAN.—Kansas City Elevated Ry. Co. (Operates Kensington Ry. Controlled by Metropolitan St. Ry. Co.) 20 m, 20 m s, 4-8½ g, 40, 50, 62 lb T and Duplex r, 34 m c. Gen. Elec. and Westinghouse systems. Pullman and St. Louis cars. Corliss engines. Pres. & Treas. C. F. Morse, V. Pres. R. Gillham, Sec. J. A. Harder, Gen. Man. & Ch. Engr. R. J. McCarty, Asst. Gen. Man. E. M. Bernardin, Elecn. C. Grover, Supt. W. E. Barnhart, Ch. Engr. of Power Station A. E. Deibert. Office 9th and Broadway. 5 8

West Side R. R. Co. (Controlled by Kansas City Cable Ry. Co., Consolidated. 10 m, 4-8½ g, 45, 54 lb T and girder r, 16 c, of which 12 are m c, and 4 t c. Westinghouse system. St. Louis cars. Sioux City Corliss engines. Pres. L. H. Hole, Sec. C. F. Hutchings Supt. W. E. Barnhart. 4 5 8 1 e

KANSAS CITY, MO.—Metropolitan St. Ry. Co. consolidated, (consisting of Kansas City Cable Ry., Grand ave. Ry., Kansas City and Independence R. T. Ry., and old Metropolitan St. Ry.) 135.95 m, of which 62.53 are cable, 12 75 horse and 60 61 elec. 4-8½ g, 56 100 lb, s b c b, and girder r, 612 c of which 88 are h c, 147 g c, 87 m c and 340 t c, 175 h. Gen. Elec. and Westinghouse systems. Stephenson, Brownell, Wright, Laclede and Pullman cars. Wright, Allis and Hooven, Owens & Rentschler engines. 4348 H. P. Babcock & Wilcox boilers. Pres. C. F. Morse, V. Pres. & Gen. Man. W. H. Holmes, Supt. C. F. Holmes. Pur. Agt., W. A. Satterlee, Elecn. C. Grover, Ch. Engr. of Power Station, D. W. Duzier. Office 9th & Broadway. 9 5

North East St. Ry. Co. 8 m, 4.2 m s, 4-8½ g, 46, 60 lb girder & T r, 10 m c. Westinghouse system, Brownell cars. Arlington & Sims engines. 250 H. P. Babcock & Wilcox boilers. Receiver R. Gillham, Gen. Man., Supt. & Pur. Agt. W. O. Hands, Elecn. C. G. Adney, Ch. Engr. of Power Station W. Casebolt. Office, St. John and Elmwood Aves. 9 5

People's Cable Ry. Co. 6.8 m, 4-8½ g, 58½ lb r, 35 c, of which 15 are g. c. and 20 t c. 600 H. P. Babcock & Wilcox boilers. Auditor & Cashier, W. C. Phillips, Supt. F. Phillips. 3 2

Westport & Waldo St. Ry. Co. 15 m, 4-8½ g, 52, 60 lb. girder and T r, 15 c of which 5 are m c and 10 t c. Westinghouse system, Hamilton Corliss engines. Pres. W. E. Winner, V. Pres. E. S. Young, Sec. C. B. Adams, Treas. G. Law, Gen. Man. J. R. Anderson, Ch. Engr. W. H. Dunn. 4 5 8

KEARNEY, NEB.—Kearney Electric Co. 5½ m 4-8½ g, 40 lb T r, 6c, of which 4 are m c and t c. Gen. Elec. system. Pres. Geo. W. Frank, V. Pres. A. Frank 2d, Sec. Treas. & Supt. G. W. Frank Jr., Elecn. T. J. O'Brien. 12 4

KEOKUK, IA.—Keokuk Electric Ry. Co. 7 m, 4-8½ g, 45-56 lb T r, 14 c, of which 11 are m c and 6 t c. Gen. Elec., Walker and Westinghouse systems. Ball & Wood and Hamilton engines. Pres. Treas. Man. & Ch. Engr. J. C. Hubinger, Elecn. A. Gregory. 2 5 8

KEYPORT, N. J.—Keypott & Matawan St. Ry. Co. 3½ m, 3½ ms, 4-8½ g, 35 lb girder s-b r, 6-4-wheel box c, 24 h. Pres. R. R. Brown, Sec. Treas. Gen. Man. & Pur. Agt. A. M. Brown, Supt. W. C. Smith. 1 5 8

KEY WEST, FLA.—Key West Street Car Co., 5 m, 5 g, 35 lb r. s c, 75 mu. Brill cars. Ball engines. Pres. J. J. Philbrick, Sec. J. C. Whalton, Jr., Treas. G. W. Allen, Supt. N. G. Fulford, Ch. Engr. & Ch. Engr. of Power Station, F. M. Sankey. 9 5

KINGSTON, N. Y.—Colonial City Electric Ry. Co. 6 m, 6 m s, 4-8½ g, 80 lb girder r, 12 c of which 8 are m c and 4 t c. Gen. Elec. and Westinghouse systems. St. Louis cars. Ball & Wood engines. Receivers J. E. Kraft and A. E. Walradt, Gen. Man. and Pur. Agt. J. E. Kraft, Ch. Engr. W. Klingberg, Ch. Engr. of Power Station M. Bell. Office 303 Wall St. 9 5

Kingston City R. R. Co. (See Rondout, N. Y.)

KINGSTON, ONT.—Kingston, Portsmouth and Catarauq Ry. Co. 10m, 7m s, 56 and 63 lb T, rail, 19 m c, 2 sweepers. Gen. Elec. system, Rathbun, Paterson and Can. Gen. Elec. cars, Brill and Can. Switch trucks. Pres. Ira A. Breck, V. Pres. Wm. Nicie, Sec. and Treas. Geo. Osborne, Man. B. W. Folger. 8 5

KNOXVILLE, TENN.—Knoxville Electric Ry. Co. 17 m, 4 8½ g, 25-45 lb T, tram and girder r, 26 c. Gen. Elec. system. Receiver, J. C. Duncan. 3 5 8

Fountain Head Ry. Co. 6 m, 2 m s, 4-8½ g, 45 lb T r, 11 c, of which 7 are passenger and 4 freight, 3 dummies. Brill cars. Pres. G. Borgfeldt, V. Pres. G. F. Pfeiffer, Sec. J. Dunne, Treas. J. Kable, Supt. & Pur. Agt. R. T. Baker. Office, 703 Broadway, N. Knoxville. 9 5

West End St. Ry. Co. 4½ m, 4½ m s, 4-8½ g, 24, 45 lb c b and T r, 7 m c. Gen. Elec. system. Stephenson cars. Power rented. Pres. R. M. Rhea, V. Pres. W. F. Chamberlain, Sec. Treas. Gen. Man. Supt. & Pur. Agt. T. J. Thomas, Elecn. P. W. Hickman. 12 4 8

KOKOMO, IND.—Kokomo City St. Ry. Co. Elec 4½ m, 4-8½ g, 35 lb T r, 13 c, of which 9 are m c, and 4 t c. Detroit system. Brownell cars. Dick & Church engines. Pres. F. E. Snow, V. Pres. W. A.

Jackson, Sec. & Treas. F. Woodruff, Supt. & Elec. F. H. Allen. 1 4

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LA CONIA, N. H.—Laconia & Lakeport St. Ry. 3.62 m, 3 g, 35 lb T r, 11 c, 28 h. Pres. J. C. Moore, V. Pres. & Gen. Man. H. Tucker, Sec. & Treas. E. Little. 4 5 s j e

LA CROSSE, WIS.—La Crosse City Ry. Co. 10 1/2 m, 4-8 1/2 g, 40-66 lb girder and T r, 29 c, of which 11 are m c and 18 t c. Gen. Elec. system. St. Louis cars Allis engines. Pres. B. E. Edwards, V. Pres. W. W. Cargill, Sec. H. E. West, Treas. Geo. H. Clark, Supt. Peter Valier, Elec. J. Johnson, Ch. Engr. of Power Station S. J. Prentiss, Office, 3d and La Crosse Sts. 4 5 s

LAFAYETTE, IND.—Lafayette St. Ry. Elec. 13 m, 12 ms, 4-8 1/2 g, 56 lb T and girder r, 26 c, of which 24 are m c and 2 t c. Gen. Elec. system. Brill cars. Hamilton-Corliss engines. Pres. Frank M. Riter, V. Pres. T. J. Levering, Sec. J. T. Henderson, Gen. E. B. Gunn, Ch. Engineer of Power Station, J. E. Altbunn. 9 5

LAKE CHARLES, LA.—Lake Charles St. Ry. Co. 5 m, 4-8 1/2 g, 30 lb T r, 10 c, 15 mu. Pres. J. A. Bel, V. Pres. J. Ryan, Sec. & Pur. Agt. A. Meyer, Treas. M. J. Rosbet, Gen. Man. & Supt. P. Crowley. 9 5

LAMPASAS SPRINGS, TEX.—Lampasas Springs St. R. R. Co. 2 m, 3 m s, 4-8 1/2 g, 35 lb T r, 6 c, 16 mu. Pres. R. E. Maddox, V. Pres. E. R. Maddox, Sec. W. Little, Treas. Gen. Man. Supt. & Pur. Agt. E. P. Maddox, Ch. Engr. E. Day, Office, Elm st. 4 5

LANCASTER, N. Y.—Buffalo, Bellevue & Lancaster Ry. Co. (See Bellevue, N. Y.)

LANCASTER, O.—Lancaster Electric Ry. Co. 4 m, bonded for elec. service, 4-8 1/2 g, 52 lb girder r, 7 c, 16 h. Receiver H. Peters, Pres. Wm. Duffy, V. Pres. G. Mussee, Sec. C. F. Nestor, Treas. & Gen. Man. A. Baumann. 7 5

LANCASTER, PA.—Pennsylvania Traction Co. (Operates Columbia & Donegal, Columbia & Ironville, Lancaster & Columbia, Lancaster & Millersville, Lancaster City and Lancaster & Philadelphia Electric railways.) 50 m, 5-2 1/2 g, 60, 90 lb T and girder r, 4 0 c, of which 35 are m c and 5 t c, 7 h. Gen. Elec. and Westinghouse systems. Brill and St. Louis cars. Ball & Wood and Reynolds engines. Pres. J. J. Patterson, Sec. & Treas. J. Hertzler, Gen. Man. J. G. Zook, Supt. & Pur. Agt. W. A. Armstrong, Elec. F. Miller, Ch. Engr. W. Henderson, Ch. Engr. of Power Station J. Lawlor, Gen. Office 153 E. King St. Supts. office 529 W. Prince St. 5 5 f e

Columbia & Ironville St. Ry. Pass. Co. (Operated by Pennsylvania Traction Co.) 10 m, 5 m s, 5-2 1/2 g, 60 lb girder r, 4 m c. Westinghouse system. Brill cars, Ball & Wood and Westinghouse engines. Pres. W. B. Given, Sec. Gen. Man. Supt. & Pur. Agt. F. S. Given, Treas. J. Janson, Ch. Engr. E. N. Smith, Elec. J. Cramen, Ch. Engr. of Power Station F. Lawlor, Office 224 Locust ave. 9 4

Columbia & Donegal Ry. Co. (Operated by Pennsylvania Traction Co.) 11 m, 5 1/2 m s, 5-2 1/2 g, 48 lb T r, 4 m c. Westinghouse system. Lamokim cars. Pres. W. B. Given, Sec. Gen. Man. Supt. & Pur. Agt. F. S. Given, Treas. H. L. Haldeman, Elec. J. Cramen. 9 4

Lancaster & Lititz Ry. Co. (Operated by Pennsylvania Traction Co.) 8 m, 5-2 1/2 g, Pres. J. A. Coyle, Sec. & Treas. J. E. Ackley, Gen. Man. & Supt. W. A. Armstrong, Ch. Engr. F. W. Darlington. 9 4

LANSING, MICH.—Lansing City Electric Ry. Co. 11 m, 4-8 1/2 g, 45 lb T r, 17 c, of which 12 are m c and 5 t c. Westinghouse system. Laclede cars. Pres. L. N. Downs, Sec. and Treas. F. N. Rowley, Gen. Man. E. E. Downs, Supt. E. Waldorf, Elec. E. Slaughter, Office, 1,106 Washington Ave., South Lansing. 9 5

LARCHMONT, N. Y.—Larchmont Horse Ry. Co. 1 1/2 m, 4-8 1/2 g, 35 lb girder r, 4 c, 12 h. Stephenson cars. Pres. C. H. Murray, V. Pres. and Treas. F. W. Flint, Sec. & Supt. W. H. Campbell. 9 5

LAREDO, TEX.—International Bridge & Tramway Co. 2 m, 3-9 g, 20 lb T r, 2 c, 10 mu. Brill cars. Pres. P. Ornelas, Sec. T. W. Smith, Supt. K. Varela. 4 4

Laredo Electric & Ry. Co. 3.9 m, 4 g, 25 lb T r, 6 m c. Gen. Elec. system. Brill cars. Armington & Sims engines. Pres. B. M. Hammond, V. Pres., Treas. & Gen. Man. C. F. Drake, Sec. Supt. & Pur. Agt. C. F. Yaeger, Office, Sallinas & Farragut sts. 9 5

LA SALLE, ILL.—City Electric Ry. Co. 9 1/2 m, elec, 4-8 1/2 g, 51 1/2 lb s b & girder r, 9 c, of which 6 are m c and 3 t c. Edison system. Pres. ———, Sec. F. X. Kilduff, Treas. L. B. Merrifield, Supt. E. S. Enart. 3 2

La Salle & Peru St. Ry. Co., 12 m, 10 m s, 4-8 1/2 g, 45 lb T r, 12 c, of which 8 are m c and 4 t c. Westinghouse system. St. Louis cars. Pres. & Treas. L. B. Merrifield, V. Pres. L. W. Merrifield, Sec. W. C. Keall, Gen. Man. & Elec. A. G. Davids, Supt. W. Coughlan, Ch. Engr. J. Fox. 1 5 s

LAWRENCE, KAN.—Lawrence Transportation Co. 5 1/2 m, 4-1 g, 38 lb Johnson girder r, 9 c, of which 6 are 4-wheel box and 3 4-wheel open, 50 h. Pres. & Treas. H. Tisdale, V. Pres. J. W. Parker, Sec. H. A. Lawton, Gen. Man. Supt. & Pur. Agt. W. McElheny. 9 5

LAWRENCE, MASS.—Lowell, Lawrence & Haverhill St. Ry. Co. 55.983 m, of which 5.335 are horse and 50.648 elec, 46.448 m s, 4-8 1/2 g, 48-90 lb T and girder r, 147 c, of which 14 are h c, 126 c and 7 t c. Gen. Elec. system. Brill, Jones, Ellis, Lewis & Fowler, Stephenson, Laconia and Newburyport cars. McIntosh & Seymour and Providence engines. 896 H. P. Babcock & Wilcox boilers. Pres. Gen. Man. & Pur. Agt. G. H. Campbell, Sec. W. F. Pope, Treas. C. A. Stone, Asst. Treas. W. A. Fisher, Audr. G. E. Tripp, Supts. (Lawrence division) N. E. Morton, (Haverhill division) F. Woodman, Offices 104 Ames Bldg., Boston, 586 Essex st., Lawrence. 9 5

LEAVENWORTH, KAN.—Leavenworth Electric Ry. Co. 15 m, of which 5 are horse and 10 elec, 4 8 1/2 g, 60 lb T r, 18 c, of which 14 are m c and 4 t c. American cars. St. Louis City engines. Pres. N. Erb, V. Pres. H. N. Smith, Sec. & Treas. J. P. Edrington, Gen. Man. L. M. Erb, Elec. W. O'Hara, Ch. Engr. of Power Station, E. E. Weatherly. 9 5

LEBANON, MO.—Lebanon Light & Water Co. Elec. (Not in operation.) 1/2 m, 4-8 1/2 g, 48 lb T r, 1 m c. Westinghouse system. Pres. B. F. Hobart, V. Pres. E. B. Loveland, Sec. & Treas. W. P. Heath. 9 5

LEBANON, PA.—Lebanon & Annville St. Ry. Co. Elec. 20m, 5-2 1/2 g, 50-80 lb girder & T r, 16 m c Gen. Elec. & Westinghouse systems. Lebanon Mfg. Co., Lewis & Fowler, Jackson & Sharp and Stephenson cars. Ball and Ide engines. Pres. & Gen. Man. J. M. Shenk, V. Pres. S. P. Light, Sec. H. H. Light, Treas. F. H. Reineohl, Supt. C. H. Smith. 9 5

Lebanon & Myerstown St. Ry. Co. Pres. J. N. Shenk, Sec. S. L. Brightbill, Treas. G. D. Rice. 3 4

LEWISTON, ME.—Lewiston & Auburn Horse R. R. Co. 14 m, 4-8 1/2 g, 35, 45, 50 lb T and c b r, 15 c, 80 h. Jones and Stephenson cars. Pres. N. Q. Pope, Sec. H. W. True. 3 5 s

LEXINGTON, KY.—Belt Line Electric Co. Elec. 13 m, 12 m s, 4-8 1/2 g, 50 lb T r; 43 c, of which 35 are m c and 8 t c. Edlson and T-H systems. Ohio Falls and Pullman cars. Armington & Sims and Lane & Bodley engines. Pres. & Gen. Man. C. H. Stoll, V. Pres. W. J. Longbridge, Sec. T. D. Murray, Treas. R. P. Stoll, Supt. Pur. Agt. & Elec. E. J. Richards, Ch. Engr. of Power Station J. McKeever, Office. Main and Cheapside sts. 9 5

LEXINGTON, MO.—Lexington & Kansas City Land & Investment Co. 2 1/2 m, 4-4 g, 30 lb r, 2 c, 8 h. Pres. R. G. Estell, V. Pres. W. Z. Hickman, Sec. & Treas. Jas. Wentworth. 5 3

LIMA, O.—The Lima Electric Ry. Co. 7 m, 4-8 1/2 g, 66 lb girder r, 7 m c. Gen. Elec. system. Brill and Jackson & Sharp cars. Dick & Church engines. Pres. Gen. Man. & Pur. Agt. A. E. Townsend, V. Pres. & Treas. W. W. Hazzard, Sec. N. Dedith, Supt. S. Stewart, Office, 400 S. Main St. 11 5

LINCOLN, ILL.—Lincoln Electric St. Ry. Co. 6 m, 6 m s, 4-8 1/2 g, 40 lb T r, 6 c, of which 4 are m c and 2 t c. Gen. Elec. system. Laclede cars. Bates engines. Pres. W. H. Patterson, Sec. & Treas. B. M. Kuhn, Gen. Man. L. W. Seneaney. 3 5 s

LINCOLN, NEB.—Lincoln St. Ry. Co. 55 m, 8 m s, 4-8 1/2 g, 40, 56, 70 lb T and girder r, 90 c, of which 50 are m c and 40 t c. Gen. Elec., Westinghouse and Short systems. Receiver, B. D. Slaughter, Office 9 and K sts. 9 5

LITTLE ROCK, ARK.—Little Rock Traction & Elec. Co. (Successor to the City Electric Ry. Co.) 20 m, of which 11 is horse and 19 t c. 4-8 1/2 g, 35, 33, 48 lb T and girder r, 74 c, of which 15 are h c, 43 are m c and 16 t c, 5 h. Gen. Elec. system. St. Louis cars. Hamilton-Corliss engines. Pres. A. N. Johnson, V. Pres. A. Perry, Sec. Geo. B. Rose, Treas. C. F. Penzel, Gen. Man. Pur. Agt. & Ch. Engr. H. G. Fleming, Supt. A. S. Grooms, Ch. Engr. of Power Station R. Baise. 9 5

LOCK HAVEN, PA.—Lock Haven Traction Co. (Leases Lock Haven Electric Ry. Co.) 6.07 m, 5.15 m s, 4-8 1/2 g, 56, 0 lb T and girder r, 8 c of which 5 are m c and 3 t c. Gen. Elec. system. New Castle cars. Phoenix engines. Pres. C. A. Bragg, V. Pres. W. H. Mayer, Treas. J. A. Seely, Gen. Man. Pur. Agt. & Ch. Engr. R. H. Irvine, Elec. S. P. Rohe, Ch. Engr. of Power Station, P. G. Knights, Office 136 E. Main St. 9 5

LOCKPORT, N. Y.—Lock City Electric R. R. Co. 5 1/2 m, 5 m s, 4-8 1/2 g, 50 & 80 lb T & girder r, 6 m c. Brill, St. Louis and J. & S. cars. Westinghouse system. Rent power. Pres. C. A. Johnson, V. Pres. Wm. Spalding, Sec. R. C. Johnson, Treas. C. A. Johnson, Jr., Supt. Wm. C. Reed, New York Office 80 Broadway. 9 5

LOGANSPORT, IND.—Logansport Ry. Co. 5 1/2 m, 5 1/2 m s, 4 g, 40 lb T r, 8 m c. Gen. Elec. system. St. Louis cars. McIntosh & Seymour engines. Pres. S. Spencer, Sec. & Treas. R. D. Lankford, Gen. Man. & Pur. Agt. J. T. McNary, Elec. O. E. Haun, Ch. Engr. of Power Station C. A. Herring, Office 414 1/2 Broadway. 12 4

LONDON, ONT.—London St. Ry. Co. 11.5 m, of which 1 is horse and 10.5 elec, 7 m s, 4-8 1/2 g, 35, 56 lb flat and T r, 36 c, of which 35 are h c and 1 m c. Westinghouse system. Toronto Ry. cars. Pres. H. A. Everett, V. Pres. E. W. Moore, Sec. S. R. Break, Treas. & Gen. Man. C. E. Carr, Asst. Sec. C. Currie, Supt. D. L. De Hart, Office Dundas st. East. 9 5

LONG ISLAND CITY, N. Y.—Stelway Ry. Co. of Long Island City. 32 m, 4-8 1/2 g, 70, 93 lb girder r, 116 c, of which 69 are m c and 47 t c. Gen. Elec. system. Cooper-Corliss engines, 1,000 H. P. Babcock & Wilcox boilers. Pres. R. T. McCabe, V. Pres. Stephen Peabody, Sec. & Treas. H. D. Babcock, Asst. Treas. W. A. Pease, Gen. Man. G. Chambers, Elec. W. E. Shepard, Ch. Engr. of Power Station W. S. Ott, Offices 29 Broadway, New York, and Stelway. 4 5 s

Long Island City & Newtown Ry. Co. 10 1/2 m, 7 1/2 m s, 4-8 1/2 g, 45-60 lb r, 21 c, of which 8 are m c and 13 other c. Gen. Elec. system. Pres. J. J. Zachary, Sec. & Treas. V. P. Wilson, Offices 112 Front st. 4 5 s

LONGVIEW, TEX.—Longview & Junction St. Ry. 5 1/2 m, of which 1 1/2 are horse and 4 cable; 3-6 g, 16 lb r, 2 c, 4 mu. Pres. W. S. Mayfield, Sec. & Treas. W. D. Stallings, Gen. Man. T. H. Huffman. 12 4

LORAIN, O.—Lorain St. Ry. Co. 10.7 m, 10.1 m s, 70 lb T and girder r, 22 c of which 18 are m c and 4 t c. Gen. Elec. system. Stephenson cars. Straight Line engines. Pres. J. B. Coffinberry, V. Pres. F. B. Vernam, Sec. P. M. Boyd, Treas. F. T. Horan, Supt. R. A. Jonsson, Pur. Agt. John K. Frye. 11

Elyria & Lorain Electric Ry. Co. LOS ANGELES, CAL.—Los Angeles Railway Co. 104 m, of which 39 are horse, 22 cable and 43 elec, 3-6 and 4-8 1/2 g, 40, 45 lb girder r, 209 c, of which 34 are h c, 60 g c, 65 m c and 60 t c, 125 h, 82 mu. Gen. Elec. and Westinghouse systems. Brill and Stockton, C. H. & A. cars. Golden State & Miners' Iron Works engines. Pres. T. Brown, Sec. J. T. Burke, Gen. Man. F. W. Wood, Supt. J. J. Akin, Office, Central ave. and Wilde st. 5 5 s

Main St. & Agricultural Park R. R. Co. 10 m, 5 m s, 3-6 g, 16, 40 lb T and girder r, 30 c, 115 h. Baker Iron Works cars. Pres. & Gen. Man. W. J. Brodrick, V. Pres. T. E. Rowan, Sec. A. C. Taylor, Treas. Farmers & Merchants' Bank, Supt. Wm. Hawks, Office, 234 N. Main St. 9 5

Temple St. Cable Ry. Co. 4 1/2 m, 3 m s, 3-6 g, 38 lb Johnson girder r, 21 c, of which 11 are g c and 10 t c. Stephenson cars. Union J. W. engines. Pres. F. W. Wood, V. Pres., O. Morgan, Sec. W. N. Hamaker, Treas. Frank A. Gibson, Business Man. E. E. Lefebvre, Supt. E. W. Koster, Office, 217 New High St. 9 5

LOUISVILLE, KY.—Louisville Ry. Co. Elec. 150 m, of which 40 are horse and 110 elec, 90 m s, 5 g,

58 1/2, 78, 100 lb girder r, 500 c, of which 135 are h c, 200 m c and 165 t c, 700 h and mu. Gen. Elec. system. Allis, Ball and Williams engines. Pres. J. B. Speed, V. Pres. St. John Boyle, Sec. & Treas. R. A. Watts, Asst. Sec. & Treas. J. M. Pettus, Gen. Man. T. J. Minary, Supt. J. O. Haddox, Ch. Engr. and Elec. W. T. Cook, Office, 12th and Jefferson sts. 9 5

New Albany Ry. Co. (See New Albany, Ind.) Louisville Terminal Ry. Co. 2.6 m, 4-9 g, 56 lb T r, 1 c, 1 Patton motor. Pullman cars. Pres. G. L. Danforth, Sec. & Treas. C. C. McClarty, Receiver H. V. Harris, Office, Columbia Bldg. 10 4

LOWELL, MASS.—Lowell & Suburban Ry. Co. 53.11 m, 37 m s, 4-8 1/2 g, 40, 48, 80 lb T, girder and tram r, 119 c, of which 111 are m c and 8 t c, 24 h. Gen. Elec. system. Brill, Jones, Newburyport and Stephenson cars. Cooper engines. Pres. E. M. Tucke, V. Pres. A. Feis, Treas. P. Parker, Gen. Man. P. F. Sullivan, Supt. W. Wentworth, Ch. Engr. of Power Station J. W. Shaw. 2 5 s

Lowell, Lawrence & Haverhill. (See Lawrence, Mass.) LYONS, IA.—Clinton & Lyons Horse R. R. Co. (See Clinton, Ia.)

LYNCHBURG, VA.—Lynchburg Electric Co. 5 1/2 m, 2 1/2 m s, 4-8 1/2 g, 35-42 lb T and tram r, 8 m c Eickemeyer and Westinghouse systems. Lewis & Fowler cars. Ball engines. Pres. Stephen Adams, Sec. & Treas. J. F. Lewis, Gen. Man. & Pur. Agt. C. H. Harman, Supt. B. Flanagan, Ch. Engr. & Ch. Engr. of Power Station H. S. Hall, Elecons. S. Cochran C. P. Poole, Office, Park ave. 3 5 s

Lynchburg & Rivermont Electric Ry. Co. 5 1/2 m, 2 m s, 4-8 1/2 g, 45, 60 lb T and girder r, 9 m c Gen. Elec. and Westinghouse systems. Brill, Lewis & Fowler and St. Louis cars. Green and Russell engines. Pres. J. P. Pettyjohn, V. Pres. R. I. Owen, Sec. & Treas. J. T. Bowman, Supt. W. D. Le Grand, Ch. Engr. of Power Station J. Barnard. 10 4

LYNN, MASS.—Lynn & Boston R. R. Co. (Includes Essex, Naumkeag & Lynn Belt Line Rys., and controls East Middlesex Ry. Co. under a 99 year lease. Controlled by North Shore Traction Co.) 152.977 m, of which 10,974 are horse and 142,003 elec, 4-8 1/2 g, 60-90 lb tram T and girder r, 475 c, 112 h. Gen. Elec. system, 4,000 H. P. Babcock & Wilcox boilers. Pres. Amos F. Breed, V. Pres. & Clerk, E. Francis Oliver, Treas. C. Williams, Gen. Man. Elwin C. Foster, Auditor, F. E. Smith, Office, 333 Union st. 4 5 s

North Shore Traction Co. (Controls Lynn & Boston Ry. Co.) Pres. C. M. Wicker, V. Pres. F. Strauss, Sec. Wm. Stiles, Treas. F. W. Lutgen, Office, Camden, N. J. New York office, 15 Wall St. 4 5 s

M

MACON, GA.—Consolidated St. Ry. Co. Elec. 25 1/2 m, 4-8 1/2 g, 20, 30, 40 lb T r, 37 c, of which 21 are m c and 16 t c. T-H system. 5 3

Macon & Indian Spring Electric Ry. Co. 7 m, 7 m s, 4-8 1/2 g, 40 lb T r, 12 c, of which 8 are m c and 4 t c. Gen. Elec. system. American and Lamokim cars. Ball engines. Pres. & Gen. Man. T. J. Carling, Sec. & Treas. J. H. Hertz, Supt. & Elec. J. T. Nyhan. 9 5

McKEESPORT, PA.—McKeesport & Reynoldton Pass. Ry. Co. Elec. 9 m, 5-2 1/2 g, 35, 52, 60 lb girder r, 16 c, of which 13 are m c and 3 t c. Gen. Elec. and Westinghouse systems. Russell engines. Pres. & Pur. Agt. J. C. Smith, V. Pres. W. P. Wampler, Sec. W. B. Peters, Treas. E. F. Woods, Supt. W. L. Osborne, Office, 105 1/2 Ave. 4 5 s

McKeesport, Duquesne & Wilmberding Ry. Co. 15 m, 12 m s, 5-2 1/2 g, 56 lb T and girder r, 5 m c. Westinghouse system. Pres. E. C. Converse, V. Pres. W. V. M. Taylor, Sec. J. C. Devenny, Treas. J. L. Devenny. 4 5 s

Versailles Traction Co. 4 1/2 m, 4 m s 5-2 1/2 g, 45 and 76 lb T r, 6 m c. Newcastle cars. Westinghouse system. Pres. & Gen. Man. W. C. Soles, Sec. & Treas. A. B. Campbell. 9 5

MADISON, IND.—Madison St. Ry. Co. 2 1/2 m, 4 g, 15 lb tram r, 8 c, 4 h, 16 mu. Pres. & Treas. J. W. Thomas, Sec. J. A. Mercer, Supt. J. Wendel, Office 301 Front st. 5 3

MADISON, WIS.—Madison City Ry. Co. Elec. 8 m, 4-8 1/2 g, 40, 50 lb T r, 13 c, of which 9 are m c and 4 t c. Gen. Elec. system. St. Louis cars. Pres. W. Lamprecht, Sec. & Treas. H. C. Welch, Gen. Man. G. H. Shaw, Office, Main and Baldwin sts. 7 4 s

MAHONAY CITY, PA.—Lakeside Ry. Co. 6 m, 4-8 1/2 g, 70 lb T r, 8 m c. Lamokim cars. Westinghouse system. Pres. Dallas Sanders, Sec. & Treas. & Gen. Man. D. D. Phillips, Supt. H. H. Phillips, Ch. Engr. & Ch. Engr. of Power Station, W. J. Pounder, Elec. P. M. Gonder. 9 5

MANCHESTER, N. H.—Manchester Street Ry. Co. 16 m, 10 m s, 4-8 1/2 g, 70 and 90 lb T and girder r, 60 c of which 49 are m c and 11 t c, 52 h. Gen. Elec. system. Laconia cars. Rent power. Pres. C. Williams, Sec. E. F. Jones, Treas. C. H. Bartlett, Gen. Man. H. H. Walker, Pur. Agt. A. H. Williams, Elec. H. T. Gibbs, Office Depot St. 9 5

MANISTEE, MICH.—Manistee, Filer City & East Lake Ry. Co. Elec. 11 m, 11 m s, 4-8 1/2 g, 45 lb T r, 21 c, of which 13 are m c and 8 t c. Gen. Elec. system. American, Pullman and St. Louis cars. Ide engines. Pres. Gen. Man. Treas. & Pur. Agt. G. A. Hart, V. Pres. R. R. Blacker, Sec. W. L. Martin, Supt. F. J. Huntoon, Elec. H. Bingham, Ch. Engr. & Ch. Engr. of Power Station H. O'Connell, Office 411 River St. 9 5

MANKATO, MINN.—Mankato St. Ry. Co. (Operation suspended.) 3 1/2 m, 3-6 g, 27 lb steel r, 5 c, of which 3 are m c, 16 h. Brownell cars. Pres. S. Lamm, Sec. & Treas. John C. Noy, Gen. Man. W. M. Farr, Office, 121 Hickory st., Mankato 10 4 j e

MANFIELD, O.—Citizens' Elec. Ry., Lt. & Power Co. 8 1/2 m, 4-8 1/2 g, 50, 60 lb girder & T r, 16 m c. Westinghouse system. Akron, Brill and Laclede cars. Buckeye, Westinghouse and Cooper engines. Pres. S. N. Ford, V. Pres. M. D. Harter, Sec. S. G. Cummings, Treas. & Gen. Man. R. Carpenter, Supt. A. J. Haycox, Pur. Agt. A. B. Cornell, Elec. W. H. Booth, Office, Power Station, N. Main st. 9 5

MARINETTE, WIS.—Marquette Gas, Elec. Lt. & St. Ry. Co. 7 1/2 m, 4-8 1/2 g, 40 to 60 lb T r, 18 c, of which 10 are m c and 8 t c. Gen. Elec. system. St. Louis cars. Hoffman-Billings engines. 150 H. P. Babcock & Wilcox boilers. Pres. Gen. Man. & Pur. Agt. H. C. Higgins, V. Pres. A. C. Merryman, Sec. G. W. Hanley, Treas. J. F. Hancock, Elec. W. R. McLain, Ch. Engr. of Power Station, H. Smith, Office, 1511 Main St. 9 5

MARION, IND.—Marion City Ry. Co. 22 m, 19 m s, 4-8 1/2 g, 25, 38, 50, 60 lb T and girder r, 21 c, of which 16 are m c and 5 t c. Gen. Elec. system. Brill Laclede, Jones, Fullman and Stephenson cars. Ruckeye engines. Pres. Eli Haldeman, V. Pres. Sec. & Treas. C. W. Haldeman, Gen. Man. & Supt. W. C. McWhinney, Elecn. M. Galloway, Ch. Engr. of Power Station E. Weaver. 4 5

Queen City Electric Ry. Co. 5 m, 4-8 1/2 g, 45, 52 lb T and girder r, 16 c, of which 14 are m c and 2 t c. Gen. Elec. system. Jones and Pullman cars. Phoenix engines. Receiver H. Cale, Pres. R. B. Harrison, Sec. L. Wallace, Jr., Gen. Man. & Supt. A. A. Boyd. Office cor. 13th st. and Buffalo ave. Eastern office 1 Broadway, New York. 9 4 5

MARION, O.—Marion St. Ry. Co. 4 m, 4 m s, 4-8 1/2 g, 60 lb T r, 9 c, of which 7 are m c and 2 are t c. Westinghouse system. American cars. Pres. & Treas. E. Durtree, V. Pres. G. Leifer, Sec. Gen. Man. Supt. & Pur. Agt. G. E. Turner. 9 5

MARLBORO, MASS.—Marlboro St. Ry. Co. 8 m, 4-8 1/2 g, 38, 72 lb T and girder r, 15 m c. Edison system. Shaw, Briggs Jones and Newburyport cars. Armstrong & Sims engines. Pres. S. H. Howe, Sec. F. L. Claffin, Treas. F. T. Robinson, Supt. & Pur. Agt. H. E. Bradford, Ch. Engr. of Power Station H. W. Angier. Office, 88 Maple st. 9 5

MARQUETTE, MICH.—Marquette City & Presque Isle Ry. Co. Elec. 5 m, 4-8 1/2 g, 50 lb Johnson girder r, 5 c, of which 3 are m c & 2 t c. T-H system. Laclede cars. Hamilton-Corliss engines. Pres. F. O. Clark, Sec. M. E. Asire, Treas. J. Connolly, Supt. C. Retallic. 9 3

MARSHALLTOWN, IA.—Marshalltown Light. Pow. & Ry. Co. 3 1/2 m, 3 1/2 m s, 4-8 1/2 g, 40 lb T r, 7 c, of which 4 are m c and 3 t c. Gen. Elec. system. Brill, Pullman and Stephenson cars. Ide and St. Louis Corliss engines. Pres. C. D. Jones, Sec. S. B. Hovey, Treas. M. W. Hovey, Supt. J. J. Roe, Pur. Agts. Jones & Hovey, Elecn. W. G. Bowe, Ch. Engr. of Power Station N. McCoy. 4 5 5

MARTINSBURG, VA.—Martinsburg St. Ry. Co. 3 1/2 m, 3 1/2 m s, 40 lb T r, 6 c of which 3 are m c and 3 t c. Edison system. Brill cars. McIntosh & Seymour engines. Pres. & Treas. J. B. Wilson, Supt. J. W. Walker. 10 4

MARYSVILLE, CAL.—Marysville & Yuba City St. R. Ry. Co. 4 m, 3-6 g, 16 lb T r, 5 c, 4 h, 14 mu. Pres. D. E. Knight, V. Pres. S. H. Bradley, Sec. W. T. Ellis, Jr. Office. cor. D and 1st sts. 11 6

MASSILLON, O.—(See Canton, O.)

MASSILLON, PA.—Carbon Co. Electric Ry. Co. 3 1/2 m, 5-2 g, 48, 66 lb T & Girder r, 6 m c. Westinghouse system. Lamokin cars. Pres. A. C. Godshall, Sec. & Treas. B. Dewitt, Supt. J. A. Bonnell. Office, 123 South 2d st, Philadelphia. 9 5

MAYSVILLE, KY.—Maysville St. R. R. & Transfer Co. Elec. 4 m, 4-8 1/2 g, 40 lb T r, 12 c, of which 5 are m c and 7 t c. Pres. A. M. J. Cochran, Sec. Treas. & Gen. Man. R. A. Cochran, Jr., Supt. of lines cars, J. C. Llimbrick. Office, Court st. 4 4

MECHANICSBURG, ILL.—Mechanicsburg & Buffalo Ry. Co. 3 1/2 m, 3-10 g, 16 & 20 lb T r, 3-4 wheel open c, 3 mu. Pres. J. B. Hunter, V. Pres. H. Thompson, Sec. J. T. Fullenmider, Treas. & Gen. Man. A. T. Thompson. 10 4

MEMPHIS, TENN.—Citizens' St. R. R. Co. (Operates East End R. R., City & Suburban R. R. and Memphis & Raleigh Springs R. R.) 40 m, 4-8 1/2 g, 36-80 lb T and girder r, 150 c, of which 90 are m c and 60 t c. Gen. Elec. system. Brill, Lamokin and Pullman cars. Allis Hampson and Ide engines. 768 H. P. Babcock & Wilcox boilers. Pres. C. K. G. Billings, V. Pres. & Gen. Man. F. G. Jones Sec. & Treas. R. L. Benson. Office 29 Hernandez st. 4 5 5

MEMPHIS, TENN.—Menominee Elec. Light, Ry. & Pow. Co. 7 m, 6-3 m s, 4-8 1/2 g, 40 lb T r, 11 c, of which 8 are m c and 3 t c. Gen. Elec. system. St. Louis cars. Allis and Hamilton engines, Pres. A. Spies, V. Pres. A. A. Carpenter, Sec. Treas. & Gen. Man. E. Daniell, Elecn. W. J. McCarthy. 9 5

MERIDEN, CONN.—Meriden Electric R. R. Co. 17 1/2 m, 16 1/2 m s, 4-8 1/2 g, 56 lb T r, 48 c, of which 38 are m c and 10 t c. Gen. Elec. system. Brill cars. Ball & Wood engines. Pres. W. P. Douglas, Sec. & Treas. F. S. Lewis, Supt. Pur. Agt. & Ch. Engr. of Power Station W. C. Gray, Elecn. C. P. Smith. Office, 127 Pratt St. 9 5

MERIDIAN, MISS.—Meridian St. Ry. Co. 6 m of which 1 1/2 are steam and 4 1/2 horse, 4-8 1/2 g, 25 & 36 lb T & flat r, 10 c, 50 mu. Pres. Geo. S. Covert, Sec. J. M. Kelley, Supt. & Gen. Man. J. L. Handley. 3 1 Meridian Dummy Line Ry. Co. 2 m, 4-8 1/2 g, 40 lb T r, 6 c. Pres. J. H. Wright, V. Pres. C. C. Coffee, Sec. & Treas. G. Q. Hall, Engr. N. M. Brandon. 5 3

MERRILL, WIS.—Merrill Ry. & Lighting Co. Elec. 1 1/2 m, 4-8 1/2 g, 38 lb Johnson girder r, 3 m c. Pres. & Gen. Man. R. Weidauer, V. Pres. J. W. Ladd, Sec. & Pur. Agt. E. S. King. Office, 1014 Main St. 9 4

MICHIGAN CITY, IND.—Lake Cities Electric Ry. Co. 4 m, 4 m s, 4-8 1/2 g, 45, 72 lb T r, 9 c, of which 4 are h c, 3 m c and 2 t c, 15 h. Laclede cars. Pres. Russell B. Harrison, V. Pres. J. G. McNutt, Sec. M. F. Burke, Treas. T. Moore, Jr. Supt. F. H. Root, Atty. Collins & Collins, Counsel McNutt & McNutt. Eastern office, 86 Broadway, New York. 9 5

MIDDLETOWN, CONN.—Middletown St. Ry. Co. 4 1/2 m, 4 1/2 m s, 4-8 1/2 g, 50 lb T r, 10 c, of which 4 are m c and 6 t c. Gen. Elec. system. Brill cars. Pres. I. A. Kelsey, V. Pres. A. C. Allison, Sec. & Treas. J. K. Guy, Gen. Man. & Supt. E. W. Goss. Office, 265 Main st. 4 5 5

MIDDLETOWN, N. Y.—Middletown-Goshen Traction Co. 12 m, 4-8 1/2 g, 65, 80 lb T and girder r, 17 m c. Gen. Elec. system. Brill and St. Louis cars. Payne engines. Pres. J. C. Hinchliffe, V. Pres. & Elecn. M. J. Wightman, Sec. E. G. Wightman, Treas. & Gen. Man. W. B. Rockwell, Supt. O. G. C. Urban, Ch. Engr. G. H. Smith. P. O. Box 401. 4 5 5

MIDDLETOWN, O.—Middletown & Madison St. R. R. Co. 2 m, 2 m s, 4-8 1/2 g, 45 lb girder r, 6 c, 6 h. Brill cars. Receiver D. B. Bundy. 1 5

MILFORD, MASS.—Milford & Hopedale St. Ry. Co. 6.5 m, 6.5 m s, 4-8 1/2 g, 30, 60 lb tram r, 6-4 wheel box c. Hopedale storage battery system. Pres. & Gen. Man. E. P. Usher, Treas. A. G. Morse. Office, 23 Court st. room 618 Boston. 10 3 5

system. Brill and St. Louis cars. Ball & Wood engines. Pres. & Gen. Man. G. B. Langley, Sec. & Treas. E. H. Stokes. 1 5 8

MILWAUKEE, WIS.—Milwaukee St. Ry. Co. of Wisconsin. (Controlled by Milwaukee St. Ry. Co. of New Jersey.) 139 m, 4-8 1/2 g, 56-90 lb girder and T r, 250 c, of which 190 are m c and 60 t c. Gen. Elec. system. Brill, Brownell, Jones, Pullman, and St. Charles cars, Kidson engines. Receivers H. C. Payne and G. R. Sheldon, Pres. W. N. Cromwell, V. Pres. H. C. Payne, Sec. C. A. Spofford, Treas. A. Marcus, Gen. Man. C. D. Wyman, Supts. G. M. Kummerlein, and A. Lynn, Pur. Agt. W. C. Vanden Berg. Elecn. O. M. Rau, Ch. Engr. of Power Station W. C. Crawford. Office 103 New Insurance Bldg. 9 5

Milwaukee & Wauwatosa Electric Co. 12 m, 4-8 1/2 g, 65 lb girder r, 4 m c. Gen. Elec. system. Allis engines. Pres. C. Stickney, V. Pres. J. Wechsberg, Sec. & Treas. C. W. Henning, Gen. Man. E. D. Hoyt, Supt. & Elecn. T. F. Grover. Office 917 Chestnut st. 9 4 b

Milwaukee & Wauwatosa Motor Ry. Co. Steam. 12 m, 7 m s, 4-8 1/2 g, 56 lb girder r, 9 c, of which 3 are steam and 6 t c. Baldwin & Porter engines. Pres. J. Petley, V. Pres. J. W. Bingham, Sec. Treas. & Gen. Man. A. B. Meyers, Supt. F. Harriman. Office, 371 Broadway. 1 5 5

MINNEAPOLIS, MINN.—Twin City Rapid Transit Co. Elec. (Includes Minneapolis St. Ry. and St. Paul City Ry.) Minneapolis Division. 122,373 m, 4-8 1/2 g, 47, 60, 73 lb T and girder r, 550 c, of which 360 are m c and 190 t c. Gen. Elec. system. 3,616 H. P. Babcock & Wilcox boilers. Pres. Thos. Lowry, V. Pres. C. G. Goodrich, Sec. & Audr. J. F. Calderwood, Treas. M. B. Koon, Gen. Man. W. J. Hield. Office, 200 5d ave. 4 5 5

St. Paul Division 99,506 m, of which 5,874 are cable and 93,632 elec, 4-8 1/2 g, 40-76 lb girder and T r, 380 c, of which 34 are g c, 217 m c and 125 t c. Gen. Elec. system. Allis engines. Pres. Thos. Lowry, V. Pres. C. G. Goodrich, Sec. A. Z. Levering, Treas. W. R. Merriman, Gen. Man. W. J. Hield, Audr. J. F. Calderwood. Office 200 3d Ave. N., Minneapolis. 4 5 5

MOBILE, ALA.—Mobile St. R. R. Co. (Controls Mobile & Spring Hill Ry. Co.) 20 1/2 m, 16 m s, 5-2 1/2 g, 45-70 lb T and girder r, 40 c, of which 20 are m c and 20 t c. Gen. Elec. system. Stephenson cars. McIntosh & Seymour engines. Pres. J. C. Morris, V. Pres. F. J. Gasquet, Sec. R. B. Owen, Treas. & Gen. Man. R. Seimes, Ch. Engr. & Elecn. J. F. McAviney. Office, Anthony and Royal Sts. 9 4 5

Mobile & Spring Hill Ry. Co. (Controlled by Mobile St. R. R. Co.) Steam and Elec. on same track. 7 m, 4-8 1/2 g, 35 lb T r, 9 c of which 5 are m c, 4 t c, 3 h. Westinghouse system. St. Louis cars. Rent power. Receiver J. H. Wilson. Office 7th and Francis sts. 10 5

Mobile Light & Ry. Co. 8.33 m, 4-8 1/2 g, 45 lb T r, 23 c, of which 15 are m c and 13 t c, 3 h. Gen. Elec. and Westinghouse systems. Brill and Stephenson cars. Hamilton Corliss engines. Pres. J. Wilson, V. Pres. & Gen. Man. J. H. Wilson, Sec. C. W. Chase. Ch. Engr. J. Maloney, Elecn. S. M. Coffin. 4 5 5

MOHAWK, N. Y.—Mohawk & Ilton Horse R. R. Co. (Operated by Herkimer, Mohawk, Ilton & Frankfort Electric Ry. Co.) 1 1/2 m, 4-8 1/2 g, 30 lb flat and T r, 6 c. Cars towed by contract. Pres. J. B. Rafter, V. Pres. C. W. Carpenter, Sec. H. D. Alexander, Treas. Supt. & Pur. Agt. R. M. Devendorf. 2 5 5

Herkimer & Mohawk St. Ry. Co. (Operated by Herkimer, Mohawk, Ilton & Frankfort Electric Ry. Co.) 1 1/2 m, 1 1/2 m s, 4-8 1/2 g, 30-40 lb T r, 5 c, 8 h. Stephenson cars. Pres. Treas. Gen. Man. Supt. & Pur. Agt. J. V. Quackenbush, V. Pres. H. Deimel, Sec. E. L. Prince. 9 5

Herkimer, Mohawk, Ilton & Frankfort Electric Ry. Co. (Includes Mohawk St. R. R. Co., Mohawk & Ilton Horse R. R. Co. and Herkimer & Mohawk St. R. R. Co.) Elec. 6 m, 4-8 1/2 g, 65 lb T r. American cars. Watertown engines. Pres. J. L. Hees, V. Pres. A. B. Calvin, Sec. & Treas. R. T. McKeever, Supt. J. A. Stewart, Elecn. W. J. Drew, Ch. Engr. of Power Station E. C. Still. 9 5

MOLINE, ILL.—Moline Central St. Ry. Co. 5 m, 5 m s, 4-8 1/2 g, 70 lb T and girder r, 8 c, of which 4 are m c and 4 t c. Edison and Westinghouse systems. Brill and Pullman cars. Pres. S. H. Velle, V. Pres. L. S. McCabe, Sec. & Pur. Agt. E. H. Guyer, Treas. J. S. Gilmore, Supt. G. H. Moore. Secretary's office, Rock Island, Ill. 10 4 8

MONTEREY, CAL.—Monterey & Pacific Grove St. Ry. & Elec. Pow. Co. 5 m, 3-6 g, 20 lb T r, 8 c, 45 h. Fitzgerald cars. Pres. O. S. Trimmer, V. Pres. H. A. Greene, Sec. & Gen. Man. J. Malarin, Treas. J. S. Metteer, Supt. A. J. Haynes. 4 4 8

MONTGOMERY, ALA.—Montgomery St. Ry. Co. 13 m, 4-8 1/2 g, 45-90 lb T and girder r, 15 c, of which 14 are m c and 1 t c. T-H system. Brill and New Castle cars. Phoenix Iron Co. engines. Pres. J. W. Dimmick, V. Pres. John D. Roquemore, Sec. J. C. Virden, Treas. G. W. Cralk, Gen. Man. & Supt. M. E. Satchwell, Elecn. R. F. Scott. Office, 5 1/2 Dexter Ave. 9 4 a e

West End & Riverside Park Electric St. Ry. Co. 4 1/2 m, 4 1/2 m s, 4-8 1/2 g, 60 lb T r, 7 cars, of which 5 are m c and 2 t c. Westinghouse system. Brill cars. Westinghouse engine. Rent power. Man. and Pur. Agt. G. B. Shelhorn. Office Court Sq. & Dexter Ave. 9 5

MONTREAL, CAN.—Montreal St. Ry. Co. Elec. 78 1/2 m, 39 1/2 m s, 4-8 1/2 g, 72 lb girder r, 267 c, of which 163 are m c and 104 t c. Royal, Gen. Elec. and Westinghouse systems. Lariviere, Crossen, Pringle, Ottawa and St. Charles cars. Laurie engines. Pres. L. J. Forget, V. Pres. & Gen. Man. Dir. J. Ross, Sec. & Treas. E. Lusher, Man. Ch. Engr. & Pur. Agt. G. C. Cunningham, Supt. D. McDonald, Comptroller J. F. Hill, Office cor. Craig St. and Place d'Armes Hill. 9 5

Montreal Park & Island Ry. Co. 22 m, 4-8 1/2 g, 56 lb T r, 25 c, of which 17 are m c and 8 t c. Royal and Westinghouse systems. Brill, Lariviere, Crossen and Patterson & Corbin cars. Cowan engines. Pres. L. Beaubien, V. Pres. J. R. Thibodeau, Supt. E. McG. Quirk, Man. & Ch. Engr. Henry Holgate, Elecn. H. Harper. Office 17 Place d'Armes Hill. 12 5

MT. CLEMENS, MICH.—Mt. Clemens St. Ry. Co. 2 1/2 m, 4-8 1/2 g, 40 lb tram r, 5 c, 12 h. Jones and Stephenson cars. Pres. M. L. Williams, Sec. G. A. Skinner, Treas. & Gen. Man. M. Slush. Office, 96 Cass ave. 19 4

Mt. Clemens & Lakeside Traction Co., 6 m, 60 lb T r, 11 c of which 6 are m c and 5 t c. Walker system.

Newcastle cars, Fisher engines. Pres. B. B. Cousin, V. Pres. E. Jones, Sec. W. C. Gaudelinger, Treas. A. Skinner, Gen. Man. & Pur. Agt. M. Slush, Ch. Engr. A. Peltier, Elecn. A. Hopper. 9 5

MT. HOLLY, N. J.—Mt. Holly St. Ry. Co. 1 1/2 m, 5-2 g, 4 c, 3 h. Pres. A. Gibbs, Sec. & Treas. C. H. Polhemus, Supt. C. K. Chambers. 4 5 8

MT. VERNON, N. Y.—Westchester Electric Ry. Co. (See New Rochelle, N. Y.)

MT. VERNON, O.—Mt. Vernon Electric Ry. Co. 3 1/2 m, 4-8 1/2 g, 60 lb T r, 6 c, of which 4 are m c & 2 t c. Gen. Elec. system. Barney & Smith cars. Cooper engines. Pres. & Gen. Man. F. B. Chase, Sec. & Treas. D. K. Bird, Elecn. W. B. Wilkinson. 9 4

MUNCIE, IND.—Muncie St. Ry. Co. (Owned by Citizens' St. Ry. Co.) 8 m steam 4-8 1/2 g, 35 lb T r, 15 c, 4 steam motors. Baldwin and Porter motors. 5 3 Citizens' St. Ry. Co. Elec. 14, 5 m, 13 m s, 4-8 1/2 g, 48-86 lb T and girder r, 31 c, of which 26 are m c and 5 t c. Gen. Elec. system. St. Louis cars. Ide engines. Pres. J. S. Talley, V. Pres. C. W. Talley, Sec. G. F. McCulloch, Treas. C. F. Miller, Gen. Man. & Pur. Agt. C. N. Wilcox, Supt. Chas. Bayliss, Elecn. W. F. Warner, Ch. Engr. of Power Station W. Shaie. 9 5 k e

MUSCATINE, IA.—Muscatine Electric Ry. Co. 7 1/2 m, 4-8 1/2 g, 48 lb T r, 7 c of which 5 are m c and 2 t c. Gen. Elec. system. American Car Co. Ideal engines. Pres. G. W. Seavers, Sec. & Treas. H. W. Seavers, Gen. Man. F. Seavers. 9 3

MUSKOGON, MICH.—Muskegon Ry. Co. Elec. 15 m, 4-8 1/2 g, 30, 35 lb T and girder r, 33 c, of which 18 are m c and 15 t c. Short and Westinghouse systems. Receiver F. A. Nims, V. Pres. J. W. Moon, Sec. D. P. Erwin, Treas. Wm. B. McLaughlin, Supt. F. W. Thompson. Office, Michigan and Franklin Sts. 2 3 a e

NANTUCKET, MASS.—Siasconset St. Ry. Co. 2 m, 2 m s, 4-8 1/2 g, 35 lb T r, 2 c, 16 h. Pres. H. H. Pratt, Treas. J. F. Timmins, Gen. Man. T. E. Macy. 1 4 8

NASHUA, N. H.—Nashua St. Ry. 10 m, 3 g, 35, 38 lb tram and girder r, 27 c, 100 h. Pres. J. D. Chandler, V. Pres. A. Fels, Sec. M. F. Brennan, Treas. Percy Parker, Gen. Man. P. F. Sullivan, Supt. H. F. Webster. Office 85 Kinsley st. 9 5 J e

NASHVILLE, TENN.—Nashville St. Ry. 46 m, 35 m s, 5 g, 25-80 lb T and girder r, 92 m c. Gen. Elec. and Westinghouse systems. Brill and Barney & Smith cars. Rent power. Pres. W. H. Jackson, V. Pres. T. M. Steger, Sec. & Treas. N. P. Yeatman, Gen. Man. Supt. & Pur. Agt. E. G. Connette. 9 5

Citizens' Rapid Transit Co. 9.5 m, 5 g, 40,45 lb T and girder r, 9 m c. Gen. Elec. system. Brill and Stephenson cars. Allis-Corliss engines. Pres. C. Fisher, Sec. T. O. Price, Treas. Gen. Man. Ch. Engr. & Elecn. J. K. Spicer, Office 418 Cedar St. 11 5

Nashville Traction Co. 11 m, 6 1/2 m s, 4-11 1/2 g, 60 lb T and girder r, 18 c, of which 8 are m c and 10 t c. Gen. Elec. system. St. Louis cars. Pres. & Gen. Man. F. W. Hunter, V. Pres. J. Compton, Sec. Treas. & Supt. J. W. Keane. 4 5 5

Richland Ry. Co. (Owns Nashville & West Nashville St. Ry.) Steam. 7 m, 1 1/2 m s, 4-8 1/2 g, 48 lb girder and T r, 8 c, 4 engines. Brill cars. Baldwin engines. Pres. L. H. Davis, V. Pres. J. C. Rodemer, Sec. Treas. Gen. Man. Supt. & Pur. Agt. J. Woods, Jr. Office, 315 N. Cherry St. 9 4

NATCHEZ, MISS.—Natchez St. Ry. Co. 4 m, 4 m s, 4-8 1/2 g, 35-52 lb Tand girder r, 4 c, 20 mu. Pres. Gen. Man. & Pur. Agt. Maurice Moses, Sec. & Treas. A. Moses. Office Natchez Savings Bank. Main and Pearl sts. 9 5

Bluff City R. R. Co. 2 m, of which 800 ft. is double track incline plane, 6-2 g, Incline 3-6 g remainder, 24 c, 1 h, 4 mu, 4 engines. Pres. S. E. Rumble, V. Pres. R. C. Learned, Sec. & Treas. T. V. Wensel, Gen. Man. & Supt. J. C. Montelth. Office Main and Broadway. 4 4

NATICK, MASS.—Natick & Cohituate St. Ry. 9 m, 4-8 1/2 g, 35 lb 58 lb T r 16 c, of which 12 are m c and 4 t c. Westinghouse system. Jones cars. Pres. H. Harwood, Sec. F. H. Hayes, Treas. W. H. Bent, Supt. Geo. F. Keep. 9 5

NEBRASKA CITY, NEB.—Nebraska City Ry. Co. 7 m, 4-8 1/2 g, 20, 40, 45 lb T and girder r, 7 c, 14 h. Brownell & Robinson cars. Pres. & Gen. Man. H. B. Bartling, V. Pres. J. J. Teten, Sec. J. C. Watson, Treas. F. W. Rodenbrock. 9 5

NEENAH, WIS.—Menasha & Neenah St. Ry. Co. 4 m, 4-8 1/2 g, 35 lb tram r, 2 c, 10 h. Pres. & Treas. F. Schumacher, Sec. C. Griggs, Gen. Man. T. Schumacher. 4 5 5

NEGAUNEE, MICH.—Negaunee & Ishpeming St. Ry. & Elec. Co. 4 1/2 m, 2 m s, 4-8 1/2 g, 35 lb T r, 7 c, of which 6 are m c and 1 t c. Gen. Elec. and Westinghouse systems. Laclede cars. Ide and Westinghouse engines. 344 H. P. Babcock & Wilcox boilers. Pres. S. S. Mitchell, V. Pres. F. Braastad, Sec. Treas. & Gen. Man. A. B. Miner, Supt. Pur. Agt. & Elecn. H. F. Pearce. 9 5

NEW ALBANY, IND.—New Albany Ry. Co. 7 m, 6 m s, 4-8 1/2 g, 52 lb T r, 27 c, of which 11 are m c and 16 t c, 2 mu. Gen. Elec. system. St. Louis cars. Receiver J. MacLeod, Sec. & Treas. H. W. Hazlett, Supt. G. MacLeod, Pur. Agt. K. MacLeod, Ch. Engr. R. H. Young, Elecn. B. Slater. Office 29th and High Sts., Louisville, Ky. 9 5

New Albany Highland R. R. Co. 2 m, 2 m s, 4-8 1/2 g, 40 lb T r, 6 m c, of which 3 are m c and 3 t c. Edison system. Ohio Falls cars. Heyward engines. The road is in the hands of H. Terstege, Trustee. 9 5

NEWARK, N. J.—Newark Passenger Ry. Co. Controlled by Consolidated Traction Co.) 3 5 s Consolidated Traction Co. (See Jersey City, N. J.) The Newark & South Orange, Ry. Co. 18 m, 5-2 1/2 g, 90 lb girder r, 30 m c. Westinghouse system. Pres. E. S. Ward, V. Pres. G. Krueger, Sec. & Treas. W. Scheerer, Gen. Man. & Supt. A. Radel. Office S. Orange Ave. and S. 19th st. 3 5 5

NEWARK, O.—Newark & Granville Elec. St. Ry. Co. (Includes Newark City Ry.) 13 m, 4-8 1/2 g, 30-61 1/2 lb T and girder r, 22 c, of which 10 are m c and 12 t c. Gen. Elec. system. Gilbert and Lamokin cars. Hamilton and Russell & Taylor engines. Pres. R. Scheider, V. Pres. J. A. Flory, Sec. & Treas. W. C. Christian, Supt. H. R. Scheider. 4 5 5

NEW BEDFORD, MASS.—Union St. Ry. Co. 18 m, 16.58 m s, 4-8 1/2 g, 38-80 lb girder and T r, 84 c, of which 61 are h c and 20 m c, 229 h. Gen. Elec. system. Pres. H. H. Crapo, V. Pres. F. S. Stevens, Sec. & Treas. C. F. Shaw, Gen. Supt. E. E. Potter. Office, Five Cent Savings Bank Bldg. Purchase St. 12 4 s

Dartmouth & Westport St. Ry. Co. 9 1/2 m, 4-8 1/2 g, 70 lb T r, 33 m c. Gen. Elec. system. Jackson & Sharp, Jones and Stephenson cars. Pres. F. W. Brightman, V. Pres. C. E. Cook, Sec. R. S. Goff, Treas. A. E. Gardner, Supt. E. E. Potter. 9 5

NEW BRITAIN, CONN.—Central Ry. & Electric Co. 1 3/4 m, 8 m s, 4-8 1/2 g, 60 lb T r, 22 c, of which 20 are m c and 2 t c. Gen. Elec. system. Brill cars. Allis and Harrisburg engines. Pres. A. M. Young, Sec. C. S. Landers, Treas. P. G. Platt, Gen. Man. Supt. Pur. Agt. & Elec. E. S. Breed, Ch. Engr. & Ch. Engr. of Power Station C. S. Jones. 1 5 8

NEW BRUNSWICK, N. J.—New Brunswick City Ry. Co. (Controlled by New Brunswick Traction Co.) 4 1/2 m, 4-8 1/2 g, 43 lb c. b. and girder r, 13 c, 45 h. Pres. G. Krueger, V. Pres. J. Radel, Sec. & Treas. E. Radel. Office, Sanford st. 6 5

New Brunswick Traction Co. (Operates New Brunswick City Ry. Co.) Pres. E. Radel, Treas. C. Krueger. 6 5

NEWBURGH, N. Y.—Newburgh Electric Ry. Co. 5 m, 4-8 1/2 g, 40 lb T r, 13 c, of which 11 are box and 2 open, 72 h. Pres. J. M. Dick, V. Pres. E. Norton. Office 246 Broadway. 1 5 8

NEWBURYPORT, MASS.—Newburyport & Amesbury St. R. R. Co. 19.723 m, 18.046 m s, 4-8 1/2 g, 35, 40 lb T r, 41 c of which 29 are m c and 12 t c. Gen. Elec. system. Jones and Newburyport cars. McIntosh & Seymour engines. Pres. Chas. Odell, V. Pres. R. H. Brown, Sec. & Treas. R. G. Caler, Gen. Man. & Pur. Agt. C. F. Dennis, Ch. Engr. of Power Station O. W. Morrison. Office, 32 Market sq. 9 5

NEW CASTLE, PA.—New Castle Electric St. Ry. Co. 2.63 m, 4-8 1/2 g, 45 1/2-66 lb girder r, 4 m c. Gen. Elec. and Westinghouse systems. New Castle cars. Pres. T. W. Phillips, V. Pres. & Gen. Man. W. M. Brown, Sec. & Treas. J. A. McKee, Supt. L. D. McClusky. 1 5 8

NEW DECATUR, ALA.—Decatur St. Ry. Co. 3 1/2 m, 3 1/2 m s, 4-8 1/2 g, 20 lb T r, 5 4-wheel box c, 31 m. Laclede cars. Pres. W. W. Hedges, V. Pres. A. C. Hartshorne, Sec. Treas. Gen. Man. & Ch. Engr. W. A. Bibb. 12 4

NEW HAVEN, CONN.—Fair Haven & Westville R. R. Co. 20 m, 115 m s, 4-8 1/2 g, 50, 70 lb T r, 86 m c. Westinghouse and Gen. Elec. system. Brill, Jackson & Sharp, Lewis & Fowler and Stephenson cars. Allis engines. Pres. & Pur. Agt. H. S. Parmelee, V. Pres. S. Hemingway, Sec. & Treas. L. Candee, Supt. Walter A. Graham. Office, 730 Chapel st. 9 5

New England St. Ry. Co. (Controls Winchester Ave. R. R. Co. and Plymouth & Kingston Ry. Co., Mass.) Pres. A. C. Pond. 8

New Haven & Centreville Horse R. R. Co. 2 1/2 m 4-8 1/2 g, 46 lb c b r, 17 c, 62 h. Pres. & Gen. Man. J. N. Pierpont, Treas. W. M. Ailyn, Supt. T. R. Hull. Office, N. Broadway. 4 5 8

New Haven St. Ry. Co. 21.81 m, 4-8 1/2 g, 50, 60 lb T r 60 m c. Pres. D. Correy, V. Pres. C. A. Warren, Sec. Treas. & Gen. Man. G. A. W. Dodge, Supt. E. H. Mather. Office, 16 Exchange Bldg. 10 4 8

Winchester Ave. R. R. Co. (Owns and operates New Haven & West Haven R. R. and controlled by New England St. Ry. Co.) 17.4 m, 13.5 m s, 4-8 1/2 g, 50-70 lb T r, 86 c, of which 60 are m c and 26 t c. Gen. Elec. and Westinghouse systems. Brill, Jones, Lewis & Fowler and Newburyport cars. Westinghouse engines. Pres. A. C. Pond, V. Pres. J. Graham, Sec. Treas. & Gen. Man. I. A. Kelsey, Supt. A. E. Pond, Ch. Engr. of Power Station H. Ackrell, P. O. Address West Haven, Conn. 9 5

West Shore Ry. Co. 4.11 m, 4-8 1/2 g, 60 lb T r, 5 c, of which 3 are m c and 2 t c. Westinghouse system. Brill cars. Rent power. Pres. J. D. Dewell, Sec. Gen. Man. and Pur. Agent I. A. Kelsey, Treas. H. Sutton. Address P. O. West Haven. 9 5

NEW LONDON, CONN.—New London St. Ry. Co. 7.18 m, 6.96 m s, 4-8 1/2 g, 43 lb T r, 18 m c. Gen. Elec. system. Newburyport and J. M. Jones cars. McIntosh & Seymour engines. Pres. & Sec. W. Learned, Treas. W. A. Tucker, Supt. & Pur. Agt. L. Bentley, Elec. Engr. D. A. Miller. Office 50 State St., Boston. 7 5 8

NEW ORLEANS, LA.—Canal & Calbarone R. R. Co. 13 m, 4-0 1/2 g, 37 lb T and girder r, 40 c, 200 mu. Pres. Jos. H. DeGrange, Sec. B. J. DeGrange, Engrs. Ford and Bacon. Office 6 Camp st. 9 5

Algiers, Goulsboro & Gretna Ry. Co. 3.75 m, 3.75 m s, 3 g, 30 lb T r, 4 c, 20 h 3 mu. Stephenson cars. Pres. & Supt. A. M. Halliday, V. Pres. T. Pickles, Sec. W. Royal. Office Canal St. Ferry. 9 4

Crescent City R. R. Co. (Controlled by New Orleans Traction Co.) Elec. 26 m, 5-2 1/2 g, 35-47 lb c. b. & T r, 25 c. Pres. F. Howard, Sec. & Treas. A. H. Ford, Supt. B. Willard. Office, 620 Canal st. 6 5

New Orleans & Carrollton R. R. Co. Elec. 17 m, 4-8 1/2 g, 48, 58 and 92 lb T and girder r, 83 m c. Gen. Elec. system. American and St. Louis cars. Lane & Bodley Corliss engines. 1040 H. P. Babcock & Wilcox boilers. Pres. & Man. J. Lenex, Sec. & Treas. Walter V. Crouch, Elec. F. C. Rojo, Ch. Engr. & Ch. Engr. of Power Station I. Urbank. Office Jeannette and Dublin sts. 9 5

New Orleans Traction Co. (Controls Crescent City and New Orleans City & Lake Rys.) 120 m, Pres. J. H. Maury, Sec. & Treas. H. Sellman, Gen. Man. H. M. Littell. 3 5 8

New Orleans City & Lake R.R. Co. 66 m, 5-2 1/2 g, 42, 46 lb flat & T r, 218 c, of which 1-2 are h c and 36 steam coaches, 7 locomotives, 867 mu. Pres. A. A. Baldwin, Sec. & Treas. A. H. Ford, Supt. B. Willard. Office 620 Canal st. 6 5

Orleans R. R. Co. 9 1/2 m, 9 1/2 m s, 5-2 1/2 g, 35-40 lb T r, 20 c, 125 h, 15 mu. St. Louis cars. Pres. P. Coutgot, Sec. & Treas. L. M. Pettipain, Jr. Office, cor. White & Laharpe sts. 4 5 8

St. Charles St. R. R. Co. Operates 3 lines. 15 m, 11.6 m s, 5-2 1/2 g, 40 lb s b r, 66 4-wheel box c, 65 h, 218 mu. Stephenson cars. Pres. & Supt. Alden McLellan, Sec. N. Riviere. Office, cor. Carondelet and 8th sts. 1 5 8

NEWPORT, KY.—Cincinnati, Newport & Covington Ry. Co., Newport Division. (See Cincinnati, O.)

NEWPORT, R. I.—Newport St. Ry. Co. Elec. 4.17 m, 4.17 m s, 4-8 1/2 g, 45 lb T r, 15 c, of which 9 are

m c and 6 t c. T-H system. Ellis and Newburyport cars. Pres. Gen. Man. & Pur. Agt. A. C. Titus, Sec. & Treas. Francis Burdick, Asst. Man. R. P. Lee, Elec. G. E. Swan. Office, 227 Spring st. 9 4

NEW ROCHELLE, N. Y.—Westchester Electric Ry. Co. (Has same officers and is controlled by Union Ry. Co., New York City.)

NEWTONVILLE, MASS.—Newton & Boston St. Ry. Co. 4.54 m, 4.54 m s, 4-8 1/2 g, 56 lb T r, 16 m c. Gen. Elec. system. Hollingsworth and Trimble cars. Westinghouse engines. 214 H. P. Babcock & Wilcox boilers. Pres. Gen. Man. & Pur. Agt. H. B. Parker, Treas. J. L. Richards, Supt. F. H. L. Henderson, Pur. Agt. H. B. Parker, Elec. L. H. McLain, Ch. Engr. & Ch. Engr. of Power Station G. H. Leonard. 9 5

Newton St. Ry. Co. (See West Newton, Mass.)

Newtonville & Watertown St. Ry. Co. 2.13 m, 2.122 m s, 4-8 1/2 g, 56 lb T r. Gen. Elec. system. Pres. G. W. Morse, Sec. J. C. Lane, Treas. J. W. French, Supt. F. G. L. Henderson. 9 5

NEW WESTMINSTER, B. C.—New Westminster & Vancouver Tramway Co., Ltd. 16 1/2 m, 4-8 1/2 g, 40 lb T r, 14 c, of which 12 are m c and 2 t c. Gen. Elec. system. Brill cars. Ball and Ide engines. Pres. D. Oppenheimer, V. Pres. B. Douglas, Sec. Treas. Gen. Man. & Pur. Agt. P. N. Smith, Ch. Engr. C. E. Stoess. Office, Columbia st. 9 5

NEW WHATCOM, WASH.—Pellingham Bay Electric Ry. Co. 4 m, 4-8 1/2 g, 40 lb T r, 6 c, of which 4 are m c and 2 t c. T-H system. Pres. H. Eldridge, 1st V. Pres. P. B. Cornwell, 2nd V. Pres. C. L. Roth, Sec. E. B. Leaming, Treas. V. A. Roeder, Gen. Man. & Supt. E. Cosgrove. 1 4

NEW YORK, N.Y.—Central Crosstown R. R. Co. (Includes Christopher & Tenth St.) 11.7 m, 4-8 1/2 g, 52 lb r, 94 box c, 632 h. Pres. Geo. S. Hart, V. Pres. A. Cammack, Sec. Milton I. Masson, Treas. E. Burton Hart. Office, 170 Christopher st. 9 5

Dry Dock, East Broadway & Battery R.R. Co. 18.54 m, 10.7 m s, 4-8 1/2 g, 47, 60, 90 lb c b, s b and girder r, 175 c, 1205 h. Own cars. Pres. R. Kelly, V. Pres. S. Mehrbach, Sec. & Pur. Agt. E. T. Landon, Treas. J. Byrns. Office, 605 Grand St. 9 5

Elighth Ave. R. R. Co. (Leased to Metropolitan St. Ry. Co.) 20 m, 10 m s, 4-8 1/2 g, 60 lb r, 212 c, 1,295 h. Pres. Geo. Law, V. Pres. Jacob Hays, Sec. & Treas. James G. Afleck, Asst. Sec. & Treas. J. Afleck, Supt. E. R. Sherman. Office, Eighth Ave. and 50th st. 1 5 8

Forty-second St., Manhattanville & St. Nicholas Avenue Ry. Co. 24.90 m, 12.45 m s, 4-8 1/2 g, 47-60 lb r, 129 c, 1,144 h. Stephenson cars. Pres. John S. Foster, Sec. C. F. Naething, Treas. Jacob Fleischhauer, Supt. S. M. Sisson. Office, 118 E. 42 st. 1 5 8

Manhattan (Elevated) Ry. Co. 100.55 m, 35.14 m s, 4-8 1/2 g, 50-90 lb T r, 1,122 c, 334 loc. Pres. G. J. Gould, Sec. & Treas. D. W. McWilliams, 2nd V. Pres. & Gen. Man. F. K. Hall, Auditor E. F. J. Gaynor, Ticket Agt. C. P. McFaddin, Ch. Engr. J. Waterhouse, Asst. Engr. L. Moss, Mast. Mech. T. W. Peoples Office 71 Broadway. 1 5 8

Metropolitan St. Ry. Co. 35 m owned, 97.5 m leased, 65.4 m s operated, 47.91 lb c b and girder r 1204 c of which 639 are box, 265 open and 300 g c 5541 h, 3000 H. P. Babcock & Wilcox boilers. Pres. & Gen. Man. H. H. Vreeland, 1st V. Pres. D. B. Hasbrouck, 2d V. Pres. H. A. Robinson, Sec. E. H. Warren, Treas. H. S. Beattie, Chief. Eng. F. S. Pierson, Pur. Agt. A. C. Tully. Office, 621 Broadway. 6 5 8

New York & Harlem R.R. Co. 19.32 m, 9.66 m s, 4-8 1/2 g, 47-64, lb r, 187 c, 1,449 h. Pres. C. Vanderbilt, V. Pres. C. C. Clarke, Sec. & Treas. Ed. V. W. Rossler, Supt. Alfred Skitt, Pur. Agt. A. Bourn. Office, Grand Central Depot. 9 5

North & East River R. R. Co. 3 m, 1 1/2 m s, 4-8 1/2 g, 45 lb, s-b r, 12 c, 54 h. Lewis & Fowler cars. Pres. E. T. McLaughlin, V. Pres. Robert Avery, Sec. Geo. Fruh, Treas. T. F. Carney, Supt. W. Farrell. Office, 232-4 Front St. 9 5

Second Ave. R. R. Co. 28 m, 13 1/2 m s, 4-8 1/2 g, 60 lb r, 359 c, 1,977 h. Pres. G. S. Hart, V. Pres. C. F. Cox, Sec. J. B. Underhill, Treas. H. E. Doremus. Office, Second ave. cor. 96th st. 1 5 8

Third Ave. R. R. Co. Cable. 28.38 m, 14 m s, 4-8 1/2 g, 80 lb r, 417 c, of which 262 are closed and 155 open, 2-0 h. Pres. A. J. Elias, V. Pres. Henry Hart, Sec. Alfred Lazarus, Treas. J. Beaver, Supt. John H. Robertson, Ch. Engr. R. P. Tomassek. Office, 65th St. and Third ave. 1 5 8

Union Ry. Co. of New York City. (Leases Westchester Electric R. R.) 25 m, 4-8 1/2 g, 72 1/2, 90 lb girder r, 110 m c. Gen. Elec. and Westinghouse systems. American, Gilbert and St. Louis cars. Cooper engines. 1,500 H. P. Babcock & Wilcox boilers. Pres. Gen. Man. & Pur. Agt. E. A. Maher, V. Pres. C. A. Stadler, Sec. & Treas. T. W. Olcott, Supt. J. Carrigan, Elec. F. A. Wardlaw. Office, 2389 3d ave. 4 5 8

W. stchester Electric R. R. Co. (See New Rochelle, N. Y.)

NIAGARA FALLS, N. Y.—Niagara Falls & Suspension Bridge Ry. Co. 17.26 m, 11 m s, 4-8 1/2 g, 60 & 73 lb girder r, 30 c, of which 22 are m c and 8 t c. Gen. Elec. system. Brill cars. Ball engines. Pres. C. B. Gaskill, V. Pres. J. T. Jones, Sec. & Treas. Chas. B. Hill, Supt. J. C. Brewster. 10 5

Niagara Falls & Lewiston R. R. Co. 14 m, 60 lb T r, 5 m c. Westinghouse system. Brill cars. Pres. J. M. Brinker, V. Pres. C. M. Lautz, Sec. H. P. Bissell, Treas. R. W. Jones, Supt. J. K. Brooks, Ch. Engr. G. A. Ricker. 9 5

NIAGARA FALLS, ONT.—Niagara Falls, Wesley Park & Clifton Tramway Co. 4 m, 4-8 1/2 g, 30 & 45 lb T r, 10 c, of which 8 are 4-wheel box & 2 4-wheel open, 25 h. Pres. J. N. Mooney, Treas. John N. Hayward, Supt. C. Black. 6 3

Niagara Falls, Park & River Ry. Co. 28 m, 4-8 1/2 g, 56 lb T r, 41 c, of which 25 are m c and 16 t c. Can. Gen. Elec. system. Patterson & Corbin and St. Catharine's cars. Water power. Pres. E. B. Osler, V. Pres. W. Hendrie, Sec. & Treas. R. A. Smith, Gen. Man. & Pur. Agt. R. Mackenzie, Supt. J. C. Rothery, Ch. Engr. & Elec. W. Phillips. 9 5

NILES, O.—Mineral Ridge & Niles Electric Ry. Co. 4 m, 4 m s, 4-8 1/2 g, 48 1/2 lb T and girder r, 4 m c. Gen. Elec. system. St. Louis cars. Allis-Corliss engines. Prop. D. Moynahan. 12 4

NORFOLK, NEB.—Norfolk St. Ry. Co. 3 1/4 m, 4-6 g, 17 lb T r, 4 c, of which 2 are h c and 2 m c, 9 h. Gen. Elec. system. Pres. R. A. Stewart, V. Pres. A. Bear, Sec. N. A. Rainbolt, Treas. Gen. Man. Supt. & Pur. Agt. C. B. Burrows. Office, 401 Main st. 9 5

NORFOLK, VA.—Norfolk St. R. R. Co. 20 m, 5-2 g, 60, 80 lb girder r, 31 m c. Short system. St. Louis cars. Providence Corliss engines. Pres. M. A. Verner, V. Pres. T. Clyde, Sec. & Treas. H. C. Whitehead, Gen. Man. W. M. Rosborough, Elec. T. Ogle, Ch. Engr. of Power Station, E. P. Bell. Office, 835 Church Street. 9 5

Norfolk & Ocean View R. R. & Hotel Co. 12 m, 4-9 g, 70 lb T r, 20 c, of which 6 are m c and 14 t c. Walker system. Jackson & Sharp cars. Frick engines. Pres. C. H. Barritt, V. Pres. & Gen. Man. W. A. Barritt, Jr., Sec. H. L. Page, Treas. J. Goodwin, Supt. & Pur. Agt. F. R. Owen, Auditor C. E. Norton, Elec. J. Deiner, Ch. Engr. of Power Station, J. Bowes, Ch. Engr. T. J. Kilpatrick, Gen. Pass & Frt. Agent R. H. Pannill. 11 5

Port Norfolk Electric Ry. Co. 4 m, 4-8 1/2 g, 40 lb T r, 10 c, of which 4 are m c and 6 t c. Brush system. Jackson & Sharp cars. Watertown engines. Pres. W. H. Stewart, V. Pres. C. H. Ferguson, Sec. E. T. Powell, Treas. Gen. Man. & Pur. Agt. W. M. Mason, Elec. J. M. Mallard, Ch. Engr. & Ch. Engr. of Power Station, T. Rossell. 9 5

NORRISTOWN, PA.—Schuylkill Valley Traction Co. (Operates Citizens' Pass. Ry., Norristown Pass. Ry. and Montgomery County Pass. Ry.) 17 m, 5-2 1/2 g, 56, 68 & 90 lb girder r, 25 m c. Jackson & Sharp cars. Curtis, Gen. Elec. and Westinghouse systems. Allis and Buckeye engines. Pres. J. W. Shepp, Sec. & Treas. E. B. Shepp, Gen. Man. J. W. Passmore. 9 5

NORTH ABINGTON, MASS.—Rockland & Abington St. Ry. Co. 13 1/2 m, 13 m s, 4-8 1/2 g, 45, 56, 60 lb T and girder r, 26 m c, 1 h. Gen. Elec. system. Jones cars. Rent Power. Pres. M. N. Arnold, V. Pres. John Spence, Sec. G. W. Kelley, Treas. C. N. Cobb, Supt. A. H. Walcott, Elec. T. A. Cremins. 9 5

NORTH ADAMS, MASS.—Hoosac Valley St. Ry. Co. 6 m, 4-8 1/2 g, 40 lb T and flat r, 13 c, of which 7 are m c and 6 t c. Gen. Elec. system. Brill and Newburyport cars. Fitchburg engines. Pres. & Treas. C. Q. Richmond, Gen. Man. W. T. Neary. 9 5

NORTHAMPTON, MASS.—Northampton St. Ry. Co. 17 1/2 m, 16 m s, 4-8 1/2 g, 40, 58 lb T r, 33 c, of which 25 are m c and 8 t c, 3 h. Gen. Elec. system. Jones and Wason cars. Hamilton-Corliss engines. Pres. J. Olmstead, Sec. J. A. Sullivan, Treas. N. D. Winter, Gen. Man. A. E. Smith, Supt. E. C. Clark, Jr., Ch. Engr. of Power Station C. H. Nichols. 9 5

NORTH TONAWANDA, N. Y.—Buffalo, Tonawanda & Niagara Falls Electric R. R. Co. 9 1/2 m, 4-8 1/2 g, 45, 56, 62 lb T and girder r, 14 c, of which 10 are m c and 4 t c. Gen. Elec. system. Brill cars. Noye engines. 12 4 8

NORTH WOBURN, MASS.—North Woburn St. Ry. Co. 7.5 m, 4-8 1/2 g, 35, 48 lb tram & T r, 12 c, 53 h. Pres. A. F. Breed, Lynn, Mass. Treas. D. H. Sweetser, Supt. & Pur. Agt. G. M. Winslow. 9 5

NORWALK, CONN.—Norwalk St. Ry. Co. 5 1/2 m, 3 1/2 m s, 4-8 1/2 g, 60 lb T r, 14 m c. Gen. Elec. system. Rent power. Trimble cars. Pres. & Treas. E. J. Hill, V. Pres. J. A. Osborn, Sec. Gen. Man. & Pur. Agt. W. F. Acton, Supt. E. F. Kyle, Elec. J. Humphreys. 9 5

Norwalk Tramway Co. 10.5 m, 7 m s, 4-8 1/2 g, 50, 58, 70 lb T r, 25 c, of which 21 are m c and 4 t c. Gen. Elec. system. Briggs cars. McIntosh & Seymour engines. Pres. C. A. Johnson, V. Pres. G. N. McKibbin, Sec. & Treas. G. W. Mansfield, Supt. & Pur. Agt. K. W. Mansfield. Office, 40 South Main St., South Norwalk. 9 5

NORWICH, CONN.—Norwich St. Ry. Co. 12.46 m, 11-91 m s, 4-8 1/2 g, 45, 50 lb T r, 49 c, of which 3 are h c, 21 m c and 25 t c. Gen. Elec. system. Newburyport cars. Pres. W. Coffin, Sec. Gen. Man. & Pur. Agt. E. P. Shaw, Jr., Treas. W. A. Tucker, Elec. W. L. Adams, Ch. Eng. Power Station Geo. Bennett. 1 5 8 9 6

OAKLAND, CAL.—Piedmont & Mountain View Ry. 24 m, of which 6 are horse, 5 elec, and 13 cable and elec. combined. 3-6 and 5 g, 38, 40 lb girder r, 47 c, of which 12 are h c, 24 g c, and 11 m c. Gen. Elec. system. Pres. R. C. Bishop, V. Pres. E. A. Heron, Sec. D. Grant, Gen. Man. I. Bishop, Supt. L. A. Abell. 5 5

Central Avenue Ry. Co. 5 1/2 m, 3-6 g, 40 lb combn. r, 6 m c. Gen. Elec. system. Ingler & Atkinson cars. S. F. Tool Co. engines. Pres. W. F. Beck, V. Pres. A. H. Clough, Sec. & Gen. Man. W. F. Rudolph, Treas. 1st. Nat. Bank, Ch. Engr. P. J. Brandt, Elec. J. Lyon. Office 12th and Kirkham sts. 9 5

East Oakland St. Ry. Co. 6 m, 4-8 1/2 g, 45 lb combination r, 11 m c. Gen. Elec. system. Receiver, J. C. Johnson, Pres. C. E. Wilson, V. Pres. & Gen. Man. E. P. Vandercook, Supt. A. G. Briggs. Office, 458 9th St. 5 4 8

Highland Park & Fruit Vale R. R. 10 1/2 m, 7 m s, 4-8 1/2 g, 40-50 lb girder and T r, 8 double deck m c. Gen. Elec. system. Pullman cars. Receiver, Sec. & Treas. F. J. Woodward, Pres. A. H. Clough, Pur. Agt. & Supt. J. E. Morris, Elec. J. Thomson. Office 118 Broadway. 9 5

Oakland Consolidated St. Ry. Co. 25 m, 16 m s, 3-6 g, 35, 40 lb T and girder r, 25 m c. Gen. Elec. system. Stockton cars. Fraser & Chalmers engines. Pres. F. M. Smith, V. Pres. J. W. Coleman, Sec. & Supt. A. K. Grimm, Treas. Cal. Safe Dep. & Trust Co., Elec. J. Sparks, Ch. Engr. of Power Station J. Munroe. Office 47th st & Grove. 9 5

Oakland R. R. Co. (Owned by Southern Pacific Ry. Co. of San Francisco) Elec. 16.2 m, of which 5.2 are cable and 11 elec, 3 g, 40, 72 lb girder r, 32 c of which 12 are cable and 20 m c. T-H system. Supt. Geo. Y. Loring. Office, San Pablo and 20th sts. 6 3

Oakland, San Leandro & Haywards Elec. Ry. Consd 25 m, 3 m s, 3-6 g, 35, 40 lb T and girder r, 33 c, of which 2 are h c, 29 m c and 2 t c. Gen. Elec. system. Carter cars. Ball and McIntosh & Seymour engines. Pres. H. W. Meek, V. Pres. W. J. Landers, Sec. A. L. Stone, Treas. C. E. Palmer, Supt. F. M. Leland, Ch. Engr. & Ch. Engr. of Lower Station E. DeGroat. Office, 908 Broadway. 4 5 8

Norfolk & Ocean View R. R. & Hotel Co. (See Norfolk, Va.)

OGDEN, UTAH.—Ogden City St. Ry. Co. 12 m, 10 m s, 4-8 1/2 g, 30 lb T r, 14 m c. Gen. Elec. and Westinghouse systems. Laclede cars. Fraser & Chalmers engines. Pres. W. H. Rowe, V. Pres. J. H. Bacon, Sec. P. M. Hanley, Treas. S. L. Conklin, Supt. & Pur. Agt. N. C. Flygare, Elec. R. L. Dorland, Ch. Engr. of Power Station, S. R. Skoldfield, Office, Power House, 1920 Washington Ave. 9 5

OGDEN, UTAH.—Ogden City St. Ry. Co. 12 m, 10 m s, 4-8 1/2 g, 45 lb T r, 17 c of which 10 are m c and 7 t c. 5 h. Westinghouse system. American cars. Stillwell & Bierce water power. Pres., Gen. Man. & Pur. Agt. H. A. Sage, V. Pres. J. F. Dolan, Treas. J. B. Reilly, Supt. Louis Richter, Elec. Frank Richter. 9 5

OIL CITY, PA.—Oil City St. Ry. Co. 3 m, 2 m s, 4-8 1/2 g, 50 lb T and girder r, 3 c, of which 6 are m c and 2 t c. Curtis system. New Castle cars. Harrisburg engines. Pres. & Gen. Man. J. B. Smithman, Sec. G. S. Bredin, Treas. G. W. Parker. 9 4

OLEAN, N. Y.—Olean St. Ry. Co. 4.96 m, 4.54 m s, 4-8 1/2 g, 50 lb T r, 11 c of which 7 are h c and 4 m c. 12 h. Pres. & Supt. John Forbes, V. Pres. C. S. Carey Sec. & Treas. G. H. Strong. Office, 264 Union st. 1 5 s

OLYMPIA, WASH.—Olympia Light & Power Co. Elec. 4 m, 4-8 1/2 g, 40 lb T r, 5 m c. Gen. Elec. system. Brill and Pullman cars. Water power. Receivers, H. Stevens and A. A. Phillips. Office 5th and Chestnut Sts. 9 4

OMAHA, NEB.—Omaha St. Ry. Co. Elec. 95 m, 4-8 1/2 g, 45, 58 1/2 lb T and girder r, 248 c, of which 100 are m c and 148 t c. Gen. Elec. and Westinghouse systems. American, Laclede, Pullman and Stephenson cars. Allis, Wright and Westinghouse engines. Pres. Frank Murphy, V. Pres. Guy C. Barton, Sec. D. H. Goodrich, Treas. W. W. Marsh, Gen. Man. W. A. Smith, Supt. F. A. Tucker, Elec. Oscar Stiles. 9 5

Benson & Halcyon Heights Ry. Co. Elec. 2 m, 4-8 1/2 g, 30 lb T r, 2 m c. Westinghouse system, Pres. E. A. Benson, Gen. Man. J. B. Carmichael, Supt. E. B. Cone. 9 5

Dundee Place Car Line, 1 1/2 m, 4-8 1/2 g, 35 lb T r 2 m c. Detroit system. Pres. R. W. Patrick, Man. W. A. Smith. 9 3

Omaha & Council Bluffs Ry. & Bridge Co. Elec. High steel bridge spans the Missouri river. 20 m, 20 m s, 4-8 1/2 g, 40, 45 & 56 lb girder & T r, 47 c, of which 27 are m c and 20 t c. Gen. Elec. and Steel systems. Pullman cars. Westinghouse engines. Pres. N. W. Wells, V. Pres. J. J. Brown, Sec. C. T. Stewart, Treas. J. H. Millard, Gen. Supt. & Pur. Agt. W. S. Dimmock, Elec. I. Lovett, Mast. Mech. & Ch. Engr. of Power Station W. B. Tarkington. 9 5

Lake Manawa Ry. Co. East Omaha St. Ry. Co. 4 1/2 m, 3 1/2 m s, 4-8 1/2 g, 40, 45 lb T and girder r, 17 c, of which 10 are m c and 7 t c. Westinghouse system. American and St. Louis cars. Pres. A. S. Potter, V. Pres. D. J. Smith, Sec. Gen. Man. & Pur. Agt. A. B. De Long, Treas. H. W. Yates, Supt. C. C. Lazarus. Office Room 437 Board of Trade Bldg. 9 5

ONEIDA, N. Y.—Oneida Ry. Co. 1 1/2 m, 1 1/2 m s, 4-8 1/2 g, 47 lb c b r, 3 box c, 9 h. Stephenson cars. Pres. W. E. Northrup, V. Pres. J. J. Hodge, Sec. Treas. & Gen. Man. H. C. Stone, Supt. G. Leggett. 9 4

ONEONTA, N. Y.—Oneonta St. R. R. Co. 2 1/2 m, 4-8 1/2 g, 35, 38 lb T and flat r, 4 c, 12 h. Pres. & Supt. Geo. I. Wilber, V. Pres. D. F. Wilber, Sec. & Treas. D. A. Dietendorf, Gen. Man. E. W. Pope. 7 4 s k e

ONTARIO, CAL.—Ontario Electric Co. (Controls Ontario & San Antonio Heights Ry. Co.) 8.5 m, 8.33 m s, 4-8 1/2 g, 30 lb T r, 4 c, of which 2 are m c and 2 t c. Gen. Elec. system. Stockton cars. Pres. John Jenkins, V. Pres. Gen. Man. & Pur. Agt. C. Frankish, Sec. F. B. Stamm, Treas. Ont. State Bank, Supt. D. Elcoat, Elec. C. W. Foote. 9 5

OPELIKA, ALA.—Auburn & Opelika Electric Ry. Co.

ORANGE, N. J.—Suburban Traction Co., 10 m, 7 m s, 5-2 1/2 g, 70 lb girder r 22 m c, Gen. Elec. system. Brill and Jackson & Sharp cars. Ball & Wood engines. Westinghouse generator, Receiver W. Whittlesey, Pres. G. Spottiswoode, Sec. C. M. Decker, Supt. F. H. Tidman. 11 5

Orange Crosstown & Bloomfield St. Ry. Co. (Consolidated with Suburban Traction Co.)

Orange Mountain Cable Co. 1.5 m, 8 g, 56 lb m p r, 2 c. Bloomsburg cars. Roebing engines. Receiver E. Vanderpool, Pres. A. Z. Mason, V. Pres. & Gen. Man. F. W. Child, Sec. & Treas. A. W. Klissam, Supt. W. Condon. Office, Orange Nat. Bank Bldg. 1 5 s

South Orange & Maplewood Railway Co. 56 lb T r, Gen. Elec. System. Brill cars. Pres. Frank Brewer, Sec. & Treas. W. H. Hains, Atty. C. E. Souther, Ch. Engr. C. W. Bryden. 9 5

ORANBURG, S. C.—Orangeburg City St. Ry. Co. 3 m, 2 m s, 4-8 1/2 g, 40 lb T r, 6 c, 2 h, 4 mu. Pres. Gen. Man. & Pur. Agt. J. W. H. Dukes, V. Pres. N. H. Bull, Sec. & Treas. B. H. Moss. Office Russell st 12 4

ORLANDO, FLA.—Orlando St. Ry. 3 m, 4-9 g, 30, 40 lb T r, 7 c, 5 mu. Pres. & Gen. Man. H. W. Mouton, Sec. J. M. Cheney, Treas. M. D. Brooks. 5 4

OSHAWA, ONT.—Oshawa Ry. Co. 7 1/2 m, 5 m s, 48 1/2 g, 63 lb T r, 5 m c. Westinghouse system. Ottawa and Rathben cars. Robb engines. Pres. & Sec. F. S. Rathben, V. Pres. W. Y. Soper, Gen. Man. R. C. Carter, Supt. F. J. Doherty, Ch. Engr. M. J. Butler, Elec. W. Chitty, Ch. Engr. of Power Station, E. S. Edmondson. 9 5

OSHKOSH, WIS.—Oshkosh St. R. R. Co. 8 1/2 m, 4-8 1/2 g, 30 lb, tram r, 13 c, of which 10 are 4-wheel box & 3 1/2-wheel open, 57 h. Pres. Chas. Barber, V. Pres. J. H. Porter, Sec. & Treas. J. H. Jenkins, Gen. Man. & Supt. C. E. Montgomery. Office, 222 Main st. 9 4 7 5

OSKALOOSA, IA.—Oskaloosa St. Ry. & Land Co. 5 m, 4 g, 16, 40, 50 lb tram, & girder r, 4 c, 14 h. Minneapolis & St. Louis cars. Pres. W. M. Peatman, Sec. C. Winter, Treas. W. G. Clark, Supt. J. M. Powell. Office, 100 High Ave., West. 9 3

OSWEGO, N. Y.—Oswego St. Ry. Co. 5 m, 5 1/2 m s, 4-9 g, 45-72 lb T and girder r, 10 c, of which 8 are m c and 2 t c. Gen. Elec. system. Brill cars. Water power. Pres. G. N. Burt, V. Pres. W. B. Pheips, Sec. M. McGowan, Treas., Gen. Man. & Pur. Agt G

D. Hart, Elec. F. E. Pritchard. Office, East First and Bridge sts. 9 5

OTTAWA, ILL.—Ottawa Electric St. Ry. (Sold to the General Electric Co.) k e

OTTAWA, ONT.—Ottawa Electric Ry. Co. 30 m 16 m s, 4-8 1/2 g, 52, 56, 60 and 72 lb girder and T r, 67 m c, (3 postal cars). Westinghouse system. Ottawa cars. Water power. 67 m c (3 postal cars). Pres. J. W. McTear, V. Pres. W. Y. Soper, Sec. & Treas. J. D. Fraser, Man. Dir. T. Ahearn, Supt. J. E. Hutchison. Office, 337 Albert St. 9 5

OTTUMWA, IA.—Ottumwa Electric Ry. Co. 7.5 m, 7.25 m s, 4-8 1/2 g, 38, 45 lb girder and T r, 11 m c. Gen. Elec. and Westinghouse systems. Pullman and St. Louis cars. Hamilton, Allis and Ball engines Pres., Gen. Man. & Pur. Agt. W. R. Daum, V. Pres. J. B. Sax, Sec. G. F. Hall, Treas. C. F. Blake, Gen. Supt. W. P. Upham, Supt. of Car Service, E. M. Campbell, Elec. H. H. Coughlan, Ch. Engr. of Power Station, J. H. Briggs. Office, 102 S. Market st. 9 5

OWENSBORO, KY.—Owensboro City R. R. Co. Elec. 10 m, 4-8 1/2 g, 40 lb T r, 25 c, of which 12 are m c and 13 t c. Gen. Elec. system. Stephenson cars. Harrisburg engines. Pres. W. E. Whitely, Sec. R. A. Miller, Treas. J. H. Parish, Gen. Man. J. N. Alsop, Supt. R. H. Neely. 1 4 s

OWOSSO, MICH.—Owosso & Corunna Street Ry. Co., steam. Pres. F. Lodge. In Receiver's hands. b e

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PADUCAH, KY.—Paducah St. Ry. Co. 8 1/2 m, 8 1/2 m s, 4-8 1/2 g, 35, 54 lb T r, 22 c, of which 14 are m c and 8 t c. Gen. Elec. system. St. Louis and Stephenson cars. Ball engines. Pres. Geo. C. Thompson, V. Pres. C. Dallam, Sec. & Treas. T. J. Flournoy, Gen. Man. A. S. Thompson, Pur. Agt. Elec. & Supt. Mo. Pow. D. B. Simon. Office, 1342 Broadway. 12 4

PAINESVILLE, O.—Painesville, Fairport & Richmond St. Ry. Co. 6 1/4 m, 4-8 1/2 g, 52, 60 lb girder r, 7 c, of which 5 are m c and 2 t c. Gen. Elec. system. Ball engines. Pres. & Gen. Man. I. K. Pierson, V. Pres. F. C. Moodey, Sec. & Treas. E. W. Rudder. 4 4

PALATKA, FLA.—Palatka & Heights St. Ry. Co. 2 m, 3 g, 30 lb, c b r, 2 c, 3 mu. Stephenson cars. Pres. Wm. P. Craig, Sec. Marcus Loeb, Treas. E. S. Crill, Gen. Man. W. C. Snow, Atty. P. B. Calhoun. 9 5

PARIS, TEX.—Paris Ry. Co. 5 m, 5 m s, 4-8 1/2 g, 36 lb T and girder r, 12 h c, 30 mu. Pres. D. H. Scott, V. Pres. J. H. Johnson, Sec. & Treas. B. J. Baldwin, Jr., Gen. Man. & Supt. R. F. Grimes. Office over Farmers' & Merchants' Bank. 9 5

PARKERSBURG, W. VA.—Park City St. R. R. Co. 5 m, 4 8/10 g, 40 lb flat & T r, 7 c, 14 h, 14 mu Pres. D. Gould, V. Pres., & Sec. R. Covert, Treas W. H. Wolfe, Gen. Man. & Supt. W. A. McCosh. Office 332 Juliana st. 1 4

PASADENA, CAL.—City Ry. Co. (Controlled by Los Angeles Consolidated Electric Ry. Co.) 5 1/2 m, 3-6 and 4-8 1/2 g, 16, 20, 30 lb T & flat r, 5 c, of which 2 are 4-wheel box & 3 1/2-wheel open; 10 h, 4 mu. Baker cars. V. Pres. C. W. Buchanan, Sec. Treas. & Gen. Man. M. D. Painter. 1 4

Ahambra & Pasadena St. Ry. Co. (See Ahambra, Cal.)

Colorado St. Ry. Co. 5 1/2 m, 3-6 g, 16 lb. T r, 5 c, 9 h. V. Pres. T. P. Lukens, Sec. E. E. Jones. Office, 50 South Los Robles Ave. 1 4

Pasadena & Mt. Wilson Ry. Co. 3 1/2 m, of which 3 are elec. and 1/2 cable 2 c. Edison system. Pelton water wheels. Pres. T. S. C. Lowe, V. Pres. P. M. Green, Sec. A. P. West, Treas. T. W. Brotherton. 6 3

Pasadena St. Ry. Co. (Controlled by Los Angeles Consolidated Electric Ry. Co.) 7 m, 3 1/2 m s, 3-6 g, 16 lb T r, 5 box c, 8 h. Baker I. W. cars. Pres. & Gen. Man. R. Williams, V. Pres. G. R. Thomas, Sec. P. G. Wooster, Treas. P. M. Green. Office, Wooster Block. 12 4

PASO ROBLES, CAL.—El Paso de Robles St. Ry. 5 m, 3 g, 16 lb T r, 2 c, 6 h. Lessees Putnam & Hord. 1 5 s

PATERSON, N. J.—Paterson Ry. Co. 33 m, 14 m s, 4-8 1/2 g, 58 lb to 90 lb c, s b and girder r, 79 c, 3 h. Gen. Elec. and Westinghouse systems. Gilbert, Jackson and Sharp, and Stephenson cars. Ball engines. Rent Power. Pres. G. A. Hobart, V. Pres. W. Barbour, Sec. A. A. Wilcox, Treas. A. H. Tuttle, Gen. Man. M. R. McAdoo, Pur. Agt. J. R. Anthony, Elec. A. C. Ralph. 9 5

New Jersey Electric Ry. Co. 50 m, 30 m s, 4-8 1/2 g, 70, 90 lb T and girder r, 105 c, of which 90 are m c and 15 t c. Westinghouse system. Brill, Laconia and St. Louis cars. Bass Foundry engines. Pres. J. L. Helms, V. Pres. & Treas. T. D. Jordan, Sec. J. J. Scanlan, Gen. Man. M. E. Davis, Supts. W. Ring and A. B. De Bevoise, Ch. Engr. E. Valentine. General office, Morrisse Bldg, Paterson. President's office, 80 Broadway, N. Y. 10 5 j e

Paterson Horse R. R. Co. .8 m. 2 5 s

Paterson Central Electric R. R. Co. 4 1/2 m, 4 1/2 m s, 4-8 1/2 g, 45, 55 lb T and girder r, 18 m c. Westinghouse system. Brill, Gilbert and Lamokin cars. Pres. T. H. Bakewell, V. Pres. F. C. Vanduyke, Sec. J. J. Scanton, Treas. J. A. Morrisse, Gen. Man. M. R. McAdoo. 3 5 s

PEORIA, ILL.—Central Ry. Co. 24 m, 12 m s, 4-8 1/2 g, 48, 60 lb T and girder r, 90 c, of which 47 are m c and 43 t c. Gen. Elec. system. American, Laclede and St. Louis cars. Allis engines. Pres. W. Barker, V. Pres. S. R. Clark, Sec. J. N. Ward, Treas E. Catlander, Gen. Man. & Pur. Agt. J. Finley, Supt P. Brady, Ch. Engr. & Ch. Engr. of Power Station A. L. Kellogg, Elec. D. E. Flynn. Office, 622 S. Adams st. 12 4

Fort Clark St. Ry. Co. Elec. 14 m, 4-8 1/2 g, 38, 50, 75 lb girder and T r, 34 c, of which 14 are m c and 20 t c. Gen. Elec. system. St. Louis cars. Ball and Ide engines. Receiver F. W. Horne, Sec. & Treas. J. A. Trawick, Gen. Man. J. Finley, Supt. W. D. Atkinson. Office, Abington & Monroe Sts. 2 5 s 1 e

PETERBOROUGH, ONT.—Peterborough & Ashburnham St. Ry. Co. Ltd. 4 m, 4-8 1/2 g, 56 lb T and girder r, 8 c of which 6 are m c and 2 t c. Gen. Elec

system. Pros. & Gen. Man. T. E. Bradburn, V. Pres F. Nicholls, Sec. A. P. Poussette. 11 4

PETERSBURG, VA.—Petersburg St. Ry. Elec. 3 1/2 m, 3 1/2 m s, 4-8 1/2 g, 45 & 47 lb c b r, 12 c, of which 2 are h c and 10 are m c. T-H system. Jones cars. Receiver H. Gilham, Supt. G. Beadle. 4 4

Petersburg & Asylum Ry. Co. Dummy, 3 1/2 m, 4-8 1/2 g, 50 lb T r, 1 Baldwin engine, 4 c. Receiver H. Gilham, Supt. G. Beadle. 4 4

PHILADELPHIA, PA.—Union Traction Co. (Consolidation of the Electric Traction Co., the People's Traction Co. and the Philadelphia Traction Co.) Pres. J. Lowber Welsh, Sec. and Treas. C. O. Cruger. 9 5

Electric Traction Co., of Philadelphia. (Controlled by the Union Traction Co., includes Lombard & South Sts. Pass. Ry., Lehigh Ave. Ry., Frankford & Southwark City Pass. Ry., Citizens' Pass. Ry., and Second & Third Sts. Pass. Ry.) 129 m, 5-2 1/2 g, 45-93 lb. girder and Tram r, 253 c, 1,705 n, 10 steam durmlcs. Curtis and Gen. Elec. systems. American and Pullman cars. McIntosh & Seymour and Porter-Allen engines. 6,750 H. P. Babcock & Wilcox boilers. Pres. J. J. Sullivan, V. Pres. G. S. Gandy, Sec. & Treas F. Wackerley, Supt. W. H. Janney, Ch. Engr. A. H. Engstrom Ch. Engr. of Power Station W. J. Kerr. Office, 421 Chestnut St. 9 5

Delaware County & Philadelphia Electric Ry. Co. 10 m, 10 ms, 5-2 g, 80 lb. T and girder r. Gen. Elec. system. Lamokin cars. Pres. J. S. Austin, V. Pres. E. V. Kane, Sec. and Supt. S. Haigh, Treas. & Pur. Agt. W. H. Sayen. 9 5

Hestonville, Mantua & Fairmount Pass. R.R. Co. 24.77 m, 24.77 m s, 5-2 1/2 g, 90 lb girder r, 132 m c. Gen. Electric system. St. Louis cars. Green engines. 1,500 H. P. Babcock & Wilcox boilers. Pres. & Gen. Man. I. Blum, V. Pres. S. J. Martin, Sec. & Treas. W. R. Benson, Supt. & Ch. Engr. D. A. Hegarty, Ch. Engr. of Power Station J. D. Lynch. Office, Drexel Bldg. Engr's Office, 4300 Lancaster ave. 9 5

People's Pass. Ry. Co. (Lessee of Germantown Pass. and Green & Coates Rys. and is controlled by People's Traction Co.) 49 m, 49 m s, 5-2 1/2 g, 49 m s, 93 lb girder r, 400 c, 1475 h. Gen. Elec. system. Lamokin and St. Louis cars. Allis engines. Pres. W. S. Shelderman, Sec. & Treas. David C. Golden, Gen. Man. J. R. Beetem. Office, 8th & Dauphin sts. 2 5 s h e

People's Traction Co. (Controls People's Pass. Ry. Co., controlled by Union Traction Co.) Lamokin and St. Louis cars. 4,800 H. P. Babcock & Wilcox boilers. Pres. J. Lowber Welsh, Sec. & Treas. C. O. Kruger, Gen. Man. J. R. Beetem. 1 5 s h e

Philadelphia Traction Co. (Lessee of Catherine & Bainbridge Sts., the Continental Pass., Emple Pass., Kessler St. Connecting Pass., the Marshall St., Phila. & Darby, the Phila. City Pass., Phila. & Gray's Ferry Pass., the Ridge Ave. Pass., Schuylkill River Pass., 17th & 19th Sts. Pass., 18th & 15th Sts. Pass., 12th & 16th Sts. Pass., 22d St. & Allegheny Ave. Pass., the Union Pass. and West Phila. Pass. Rys. Controlled by Union Traction Co.) 194.19 m, 5-2 1/2 g, 47, 78, 90 lb r, 1,116 m c. Brill and Laclede cars. Westinghouse and Wetherill engines. 10,125 H. P. Babcock & Wilcox boilers. Pres. P. A. B. Widener, 1st V. Pres. W. L. Elkins, 2d V. Pres. G. D. Widener, Sec. & Treas. D. W. Dickson, Gen. Man. J. T. Gorman, Ch. Engr. F. Uhlenhaut, Jr. Office 41st and Haverford sts. V. Pres. office 423 Walnut sts. Engr's office 13th and Mt. Vernon Sts. 6 5

Holmesburg, Tacony & Frankford Electric Railroad Co. (See Tacony, Pa.)

PHILLIPSBURG, N. J.—Phillipsburg Horse Car R. R. Co. 2 1/2 m, 4-8 1/2 g, 35 lb r, 4 c, 13 h. Pres. E. C. Parker, Sec. & Treas. J. W. Long. 1 5 s

PHILLIPSBURG, PA.—Clearfield Traction Co. (Controls Phillipsburg Suburban Electric Ry. Co., Phillipsburg & Houtzdale Pass Ry. Co., and Houtzdale & Suburban Ry. Co.) Pres. A. Markie, Sec. & Treas. E. S. Doud. 4 5 s

PHOENIX, ARIZ.—Phenix City Ry. Co. 9 m, of which 2 are horse and 7 elec. 3-6 g, 20, 30, 35 lb T r, 12 c, of which 3 are h c 6 are m c and 8 t c. Gen. Elec. system. Brill & own cars. Cumner engines. Pres. M. H. Sherman, V. Pres. C. F. Ainsworth, Sec. & Man. B. N. Pratt, Treas. W. Bark, Elec. C. L. Lergstreich. 9 5

PIERRE, S. DAK.—Pierre City Ry. Co. 4.1 m 4-8 1/2 g, 27-35 lb r, 5 open c, 7 h, 16 mu. Pres. W. G. Warden, V. Pres. Randal Morgan, Sec., Supt. & Gen. Man. S. B. Wallace. 6 3

PINE BLUFF, ARK.—The Citizens' St. Ry. Co. 11 m, 11 m s, 4-8 1/2 g, 20, 35, 45 lb T r, 22 c, 6 h, 90 mu. Pres. J. M. Taylor, V. Pres. T. S. James, Sec. A. Murray, Treas & Pur. Agt. J. O'Connell, Gen. Man. H. P. Bradford, Supt. R. Downes, Jr., Pur. Agt. J. O'Connell Office, 212 Main St. 9 4

PIQUA, O.—Miami Valley Ry. Co. 14 m, 14 m s, 4-8 1/2 g, 35, 48 lb T r, 16 c, of which 11 are m c and 5 t c. Gen. Elec. system. St. Louis and Barney & Smith cars. Hamilton Corliss engines. Pres. W. P. Orr, V. Pres & Man. A. M. Orr, Sec. & Treas. L. M. Flesh, Gen. Supt. F. C. Davies. 9 5

PITTSBURG, KAN.—Pittsburg, Frontenac & Suburban Electric Ry. Co. Pres. R. Simons, V. Pres. R. Robyn, Sec. S. Barratt, Treas L. M. Bedell. 12 4

PITTSBURGH, PA.—Central Traction Co. 8 1/2 m, of which 5 are cable and 3 1/2 elec. 5-2 1/2 g, 65 lb girder r, 20 c, of which 16 are g c and 4 m c, 2 h. Westinghouse system. Brill and Pullman cars. Wetherill and Westinghouse engines. Pres. Geo. I. Whitney, V. Pres. T. A. Gillespie, Sec. G. L. Herron, Treas. G. F. Wright, Supt. W. C. Smith, Ch. Engr. L. Kirker, Elec. E. Williams. Office 33d st. and Heron Avenue. 9 5

Citizens' Traction Co. (Leased to the Fort Pitt Traction Co.) 30 m of which 6 are horse 12 cable and 12 elec, 15 m s, 5-2 1/2 g, 54 & 65 lb girder and tram r, 111 c, of which 23 are h c, 68 g c and 20 m c, 28 h. Westinghouse system. Gilbert, Pullman and Stephenson cars. Buckeye and Wetherill engines. Pres. Jno. G. Holmes, V. Pres. H. S. A. Stewart, Sec. J. G. Bright, Treas. N. Holmes, Jr., Gen. Man. & Pur. Agt. Chas. Fitzgerald. General office, 537 Penn Ave., business office, 3404 Penn Ave. 9 5 k e

Duquesne Traction Co. (Leased to Pittsburgh Traction Co.) 23 m, 5-2 1/2 g, 45 lb girder r, 60 m c, Gen. Elec. system. Pres. C. L. Magee, V. Pres. Sec. Jas. L. McDevitt, Treas. Jno F. Steel, Supt. E. McDowell. 9 2 s 1 e

Federal St. & Pleasant Valley Ry. Co. 36 m, 18 m s, 5-2 1/2 g, 66 and 70 lb girder r, 93 c, of which 84 are m c and 9 t c. Gen. Elec. and Westinghouse systems Brill, St. Louis, Pullman and Stephenson cars. Buckeye and Westinghouse engines. Pres. & Gen. Man. D. F. Henry, Sec. Wm. H. Graham, Treas. R. F. Ramsey, Supt. W. H. Foster, Pur. Agt. D. M. Bryar, Elec. & M. M. D. McDonald, Ch. Engr. of Power Station J. Johnston. Office, 125 Taggart St., Allegheny. 9 5

Fort Pitt Inclined Plane Ry. Co. Steam. 350 ft., 10 g, 2 c. Pres. Wm. F. Hill, Sec. & Supt. S. H. French, Treas. F. L. Stephenson. Office 125 Fourth Ave. 7 4 s

Homestead & Highlands St. Ry. Co. 3 m, 5-2 1/2 g, 50-90 lb T and girder r, 11 m c. Westinghouse system. Barney & Smith cars. Pres. R. G. Wood, V. Pres. & Gen. Man. S. J. MacFarren, Sec. J. H. Adams, Treas. L. Rott. 9 5

Knoxville Inclined Plane Co. 2,640 ft. 9 g, 60 lb T r, 2 c. Office 96 Diamond st.

Monongahela Inclined Plane Ry. Co. 2 planes, 640 ft., 5 and 12 g, 45 and 80 lb T r, 2 pass c, 2 freight c. Pres. Jas. M. Bailey, Sec. Treas. & Supt. John L. Awi. 7 4 s

Penn. Inclined Plane Ry. 840 ft., 10 g, 60 lb T r Pres. Joshua Rhodes. 1st ave.

Pittsburgh, Allegheny & Manchester Traction Co. (Leases Pittsburgh Union Pass. Ry. Co.) 19,823 m, 5-2 1/2 g, 63 lb girder and T r, 80 c of which 66 are m c and 14 t c. Gen. Elec. system. Laclede, Lewis & Fowler and Pullman cars. Wetherill engines. Pres. G. B. Hill, V. Pres. Joshua Rhodes, Sec. A. M. Neep, Treas. W. Montgomery, Gen. Man. & Pur. Agt. G. F. Greenwood. Office, S. Market & Liberty sts. and Beaver st. & Island ave, Allegheny. 12 4

Pittsburgh & Birmingham Traction Co. (Operates Pittsburgh & Birmingham Pass. Ry. Co., Pittsburgh Incline Plane Co. and Mt. Oliver Incline Plane Co.) 26 m, 5-2 1/2 g, 63 1/2 lb girder r, 60 c. Westinghouse and Gen. Elec. systems. Gilbert cars. Hamilton-Corliss engines. 1,000 H. P. Babcock & Wilcox boilers. Pres. H. Moore, V. Pres. A. C. Mittingill, Sec. & Treas. A. S. Petrie, Supt. F. McCoy, Elec. & Ch. Engr. T. McNeill. Office 30th & Carson sts. 11 5

Pittsburgh & Castie Shannon R. R. Cable. (Includes 2 Inclines). 6 1/2 m, 3-4 g, 60 lb T r, 10 c, of which 6 are pass c and 4 baggage c. Incline No. 1, 1,375 ft. 10 g, 60 lb T r, 2 c. Incline No. 2, 2,112 ft. 10 g, 60 lb T r, 2 c. Jackson & Sharp cars. Pittsburgh Loco. Works engines. Pres. Walter Chess, V. Pres. J. M. Bailey, Sec. & Treas. E. J. Reamer, Supt. & Pur. Agt. O. A. Rogers. 6 4 s

Pittsburgh & West End Pass. Ry. Co. 16 m, 8 m s 5-2 1/2 g, 80 lb girder r, 44 c of which 18 are h c and 26 m c, 4 h. Westinghouse system. Laclede and Stephenson cars. Russell engines. Pres. J. C. Reilly, V. Pres. Thomas S. Bigelow, Sec. W. V. Callery, Treas. & Gen. Man. William J. Burns, Ch. Engr. & Elec. M. Murphy. Office, Carson st. and Point Bridge. 9 4 s

The Pittsburgh Traction Co. (Operates lines of Duquesne Traction Co.) 12 m, of which 10 are cable and 2 elec, 7 m s, 5-2 g, 65 lb. girder r, 74 c, of which 72 are g c and 2 m c. Atwood system. Brill and Philadelphia Traction Cars. Wetherill engines. Pres. Geo. W. Elkins, V. Pres. C. L. Magee, Sec. and Treas. J. G. Tragarath, Gen. Man. & Pur. Agt. W. L. Elkins, Ch. Engr J. M. Gorman Office, 606 Penn ave. 8 4 s

St. Clair Incline Plane Ry. Co. .40 m, 5 g, 56 lb T r, 2 box c. Pres. & Supt. W. S. Hughes, Sec. W. S. Jones, Treas. R. B. Mellon. Office, 514 Smithfield St. 9 5

Schenley Park & Highlands Ry. Co. 6 m, 5-2 1/2 g, 40, 45, 66 lb T and girder r, 5 m c. Westinghouse system. Barney & Smith and Gilbert cars. Nord burg engines. Pres. R. G. Wood, V. Pres. & Gen. Man. S. J. MacFarren, Sec. J. H. Adams, Treas. T. A. Nohle. Office, Homestead. 9 5

Second Avenue Traction Co. (Leases Second Avenue Pass. Ry. Co.) 65 m, 5-2 1/2 g, 59, 69, 90 lb. r, 70 m c, 6 h. Westinghouse system. Laclede and Stephenson cars. Russell engines. Pres. Jas. D. Callery, V. Pres. H. J. Bowdin, Sec J. H. Callahan, Treas. John W. Taylor, Gen. Man. W. J. Burns, Supt. Ch. Engr. & Elec. John Murphy. Office Glenwood, 23d Ward. 4 5 s

Suburban Rapid Transit St. Ry. Co. 8 m, 5 1/2 m s, 5-2 1/2 g, 70 lb girder r, 15 m c. Sperry and Westing house systems. Brill, Laclede, Lewis & Fowler and Stephenson cars. Fisher and Porter engines. Pres. Gen. Man. & Pur. Agt. Thos. A. Noble, Sec. C. E. Succop, Treas. R. P. Cunningham, Supt. & Elec. J. F. Saitz, Ch. Engr. & Ch. Engr. of Power Station M. McGreeken. Office, 118 Diamond St. 9 5

Sylvan Avenue Passenger Ry. Co. 2 m, 5-2 1/2 g, 78 lb. girder r, 3 m c. Westinghouse system. Pres. J. D. Callery, Sec. W. H. Kuch, Treas. J. W. Taylor. 10 4

PITTSFIELD, MASS.—Pittsfield Electric St. Ry. Co. 3 1/2 m, 4-8 1/2 g, 56 lb T r, 10 c of which 5 are m c. and 5 t c., 2 h. Westinghouse system. Pres. Jos. Tucker, Sec. J. M. Stevenson, Treas. C. E. Merrill, Gen. Man. P. C. Dolan. Office Seymour and Wagonah Sts. 11 4 s

PLAINFIELD, N. J.—Plainfield St. Ry. Co. 4 m, 3 m s, 5-2 1/2 g, 72 lb girder r, 6 m c. Gen. Elec. system. Brill cars. Westinghouse engines. Pres. T. N. Nevins, V. Pres. J. T. Fritts, Sec. & Treas. A. Riker, Gen. Man. Supt. & Pur. Agt. Jno. H. Adelman. Office 909 West 4th St. 9 5

PLYMOUTH, MASS.—Plymouth & Kingston Ry. Co. (Controlled by New England St. Ry. Co.) 9 m, 9 m s, 4-8 1/2 g, 35, 42 lb T r, 12 m c. Gen. Elec. system. Briggs and Newburyport cars. Pres. A. L. Gordon, Treas. J. D. Thurber, Gen. Man., Supt. Pur. Agt. & Ch. Engr. C. E. Barnes. 9 5

POINT PLEASANT, N. J.—South Jersey St. Ry. Co. 4 m, 2 1/2 m s, 4-8 1/2 g, 56, 90 lb T and girder r, 5 m c. Westinghouse system. Lewis & Fowler cars. Ball & Wood engines. Biglow boilers. Pres. W. D. Jameson, V. Pres. F. Brewer, Sec. and Treas. J. A. Weeks, Supt. T. P. Turner. 8 5

POMONA, CAL.—Orange Grove St. R. R. Co. 4 m 3-6 g, 16 lb T r, 3 c. 8 mu. Pres. & Treas. B. B. Nesbit, Sec. C. E. Rice Gen. Man. & Supt. P. C. Townner. 11 2

PORT ARTHUR, ONT.—Town of Port Arthur Electric Ry. & Light. (Owned and operated by the town of Port Arthur). 8 m, 8 m s, 4-8 1/2 g, 40, 50 lb T r, 4 c, of which 3 are m c and 1 t c. Gen. Elec. system. Patterson & Corbin cars. Wheelock engines. Chairman & Pur. Agt. W. P. Cooke, Ch. Engr. of Power Station, A. M. Gill. 9 5

PORT HURON, MICH.—City Electric Ry. Co. 9 m, 8 m s, 4-8 1/2 g, 45 lb T r, 24 c, of which 21 are m c and 3 t c. Gen. Elec. system. Ellis, St. Louis and own cars. Rent power. Pres. W. Canham, Sec. F. J. Dixon, Treas. W. L. Jenks, Gen. Man. A. Dixon, Supt. H. A. Dixon, Elec. H. Ludwig. Office 316 Huron ave. 9 5

PORTLAND, ME.—Portland R. R. Co. 20.14 m, of which 11.42 are horse and 8.72 elec. 16.53 m s, 4-8 1/2 g, 35, 45, 58, 72 lb T and girder r, 68 c, of which 42 are h c, 18 m c, and 8 t c, 240 h. Gen. Elec. system. Ball and McIntosh & Seymour engines. 1,250 H. P. Babcock & Wilcox boilers. Pres. W. R. Wood, Sec., Treas., Gen. Man., Pur. Agt. & Supt., E. A. Newman, Office 471 Congress st. 1 5 s

Portland & Cape Elizabeth R. R. Co. Supt. H. R. MacLeod. 5 5

PORTLAND, ORE.—City & Suburban Ry. Co. 46 m, of which 35 are elec. and 11 steam, 32 m s, 3-6 g, 30, 40 lb T and girder r, 69 c, of which 52 are m c, 4 t c, and 13 coaches, 7 steam motors. Gen. Elec. system. Pullman cars Baldwin engines. Pres. H. Falling, V. Pres. T. Woodward, Sec. & Treas. C. F. Swigert, Gen. Man. & Supt. H. C. Campbell. 9 5

Barnes Heights & Cornell Mt. Ry. Co. 2.6 m, 3.6 g, 40 lb T r, 3 m c. Gen. Elec. system. Brill cars. 1 5 s City & West Portland Park Motor Co. 6 m, of which 5 are steam and 1 elec. 1 m s, 3-6 g, 40 T r, 17 c, 2 steam motors. Gen. Elec. system. Pres. E. T. Johnson, V. Pres. Treas., Gen. Man. & Pur. Agt. T. A. Wood, Sec. W. H. Wood. Office Room 24, A. O. U. W. Temple. 1 5 s

East Side Ry. Co. (Mt. Tahor R. R.) 22 m, of which 4 1/2 are steam and 17 1/2 elec., 4-8 1/2 g, 30, 40 lb T r, 19 c of which 15 are m c and 4 t c, 3 steam motors. Gen. Elec. system. Baldwin engines. Pres. & Gen. Man. G. A. Steel, V. Pres. & Treas. J. Steel, Sec. J. B. Cleland. Office 212 Madison St. 12 4 s

Portland Consolidated St. Ry. Co. 32 m, 13 1/2 m s, 3-6, 4-8 1/2 g, 35, 40 lb. T r, 79 c, of which 74 are m c and 5 t c, 3 h. Gen. Elec. and Westinghouse systems. Brill, Hand and Pullman cars. Ball and Beck engines. Receiver G. F. Paxton, Pres. G. B. Markle, V. Pres. J. Steel, Sec. D. F. Sherman, Treas. J. L. Hartman, Gen. Man. J. E. Thiltsen. Office 630 Chamber of Commerce Bldg. 9 5

Portland St. Ry. Co. 2 m, 4-8 1/2 g, 30 lb tram r, 4 c, 30 h. Pres. J. Holladay, V. Pres G. W. Weldler, Sec. T. Gray. 7 4 s

Portland Traction Co. 7 m, 3 1/2 m s, 3-6 g, 22, 38 comb. r, 24 c, of which 23 are g c and 1 t c. Stockton cars. Hamilton-Corliss engines. Pres. S. P. Smith, Sec. F. L. Brown, Gen. Man. F. J. Fuller. Office, Mill & Chapman Sts. 9 5

PORT NORFOLK, VA.—(See Norfolk, Va.)

PORTSMOUTH, O.—Portsmouth St. R. R. & Lt. Co. 5 m, 5 m s, 4-8 1/2 g, 45, 48 lb T and girder r, 12 c, of which 5 are m c and 7 t c. Westinghouse system. St. Louis cars. Ball & Wood and Buckeye engines. Pres. F. L. Smith, V. Pres. H. S. Grimes, Sec. Treas. & Gen. Man. S. B. Timmonds, Supt. & Elec. S. P. Baird. 4 5 s

PORTSMOUTH, VA.—Portsmouth Electric Ry. Co. 7 m, 4.7 m s, 4-8 1/2 g, 30, 57 lb s b r, 18 c, 40, 10 mu, Pres. L. R. Watts, V. Pres. H. L. Maynard, Sec. J. F. Finney, Treas. Martin Lane, 4 5 s k e

POTTSTOWN, PA.—Pottstown Passenger Ry. Co. 6 m, 3 m s, 4-8 1/2 g, 48, 66 lb girder r, 14 c, of which 8 are m c and 6 t c. Westinghouse system. Brill and Jackson & Sharp cars. Ball engines. Pres. G. N. Malsberger, Sec. & Treas. C. Fegely, Supt. & Pur. Agt. L. P. Muthart. 12 4

Ringier Rocks Electric Ry. Co. 3.7 m, 2 1/2 m s, 4-8 1/2 g, 43, 70 T and girder r, 11 c, of which 1 is baggage c, 6 m c and 4 t c, 1 baggage c, Westinghouse and Baxter systems. St. Louis cars. Green (Altoona) engines. Pres. M. R. Davidheiser, V. Pres. T. B. Miller, Sec. E. S. Fretz, Treas. A. K. Shaner, Gen. Man. F. S. Brant, Supt. & Elec. J. W. Spicer. 11 5

POTTSVILLE, PA.—Schuylkill Electric Railway Co. (Leases and operates People's Ry., Pottsville & Reading Ry., Tamaqua & Pottsville Electric R. R.) 28 m, 25 m s, 4-8 1/2 g, 60, 76 lb T and girder r, 50 c, of which 30 are m c and 20 t c. Gen. Elec. and Walker systems. Jackson & Sharp and St. Louis cars. Frick engines. Pres. C. H. Barritt, V. Pres. R. H. Koch, Sec. J. Newlin, Treas. Gen. Man. & Pur. Agt. F. H. Treat, Supt. M. H. Hubbell. General office, Pottsville. Exec. office, 635 Drexel Bldg., Philadelphia. 9 5 j e

Pottsville & Reading Ry. Co. (Leased to Schuylkill Electric Ry. Co.) 9 m, 4-8 1/2 g, 60, 78 lb r, 12 c, of which 6 are m c and 6 t c. Walker system. Pres. C. H. Barritt, Sec. J. F. Finney, Treas. & Gen. Man. W. A. Barritt, Jr. 9 5

Tamaqua & Pottsville Electric R. R. (Leased to Schuylkill Electric Ry. Co.) 16 m, 4-8 1/2 g, 60, 76 lb r, 16 c, of which 8 are m c and 8 t c. Walker system. Brill and Jackson & Sharp cars. Rent Power. Pres. C. H. Barritt, Sec. J. Finney, Treas. & Gen. Man. W. A. Barritt, Jr. 9 5

POUGHKEEPSIE, N. Y.—Poughkeepsie City & Wappinger Falls Electric Ry. Co. 19 m, 4-8 1/2 g, 65-90 lb. T and girder r, 20 m c. Gen. Elec. system. American cars. Ball & Wood engines. Pres. J. W. Hinckley, Sec. J. DeGroof, Treas. & Sup. E. M. Davidson, Ch. Engr. G. S. Smith, Office, 489-493 Main St. 11 5

PROVIDENCE, R. I.—Union R. R. Co. 90 m, 4-8 1/2 g, 54, 70, 90 lb girder r, 327 m c. Gen. Elec. system. Jones and Newburyport cars. Providence engines, 2,000 H. P. Babcock & Wilcox boilers. Pres. N. W. Aldrich, V. Pres. C. H. Perkins, Sec. Henry V. A. Joslin, Treas. C. A. Babcock, Gen. Man. & Pur. Agt. A. T. Potter, Ch. Engr. G. C. Tingley, Elec. W. D. Wright, Ch. Engr. of Power Station M. H. Bronsdon. Office, 32 Westminster St. 4 5 s

Interstate St. Ry. Co. 24 m, 12 m s, 4-8 1/2 g, 50 lb. T r, 40 c, of which 23 are m c and 17 t c. Gen. Elec. system. Briggs and Newburyport cars. Receiver C. S. Sweetland, Pres. & Gen. Man. H. M. Daggett, Jr., Sec. W. H. Barney, Treas. W. N. Otis, Pur. Agt. E. Holmes, Elec. J. Tregoning. Office, Main St. 4 5 s

Pawtucket St. Ry. Co. 18 m, 4 g, 54-60 lb Prov. girder and T r, 50 m c. Gen. Elec. system. Pres. N. W. Aldrich, V. Pres. L. B. Goff, Sec. H. V. A. Joslin, Treas. C. H. Babcock, Gen. Man. & Pur. Agt. A. T. Potter, Supt. C. F. Luther. Office, 32 Westminster st. 4 5 s

Pawtuxet Valley Electric St. Ry. Co. 7.3 m, 7.3 m s, 4-8 1/2 g, 48, 58, 70 lb T r, 11 c, of which 9 are m c and 2 t c. Gen. Elec. system. Union R. R. cars. Hamilton-Corliss engines. Pres. N. W. Aldrich, V. Pres. H. L. Greene, Sec. Gen. Man. & Pur. Agt. H. V. A. Joslin, Treas. C. A. Babcock. Office, 32 Westminster St. 11 5

Providence Cable Tramway Co. Cable. 3.4 m, 3.1 m s, 4-8 1/2 g, 38, 50 lb girder r, 58 c, of which 14 are g c and 4 t c, 147 h. Own and Stephenson cars. Harris-Corliss engines. Pres. N. W. Aldrich, Sec. H. V. A. Joslin, Treas. C. A. Babcock, Gen. Man. & Pur. Agt. A. T. Potter, Supt. M. H. Bronsdon. Office, 32 Westminster St. 4 5 s

PUEBLO, COLO.—Pueblo City Ry. Co. 25 m, 4 g, 35, 40 lb T r, 40 c, of which 24 are m c and 16 t c. Gen. Elec. system. Woebler cars. Allis engines. Receiver H. E. Chubbuck, Pres. J. E. Downey, Sec. Supt. & Elec. W. A. Martin, Treas. G. H. Hard. 2 5 s

PUNXSUTAWNEY, PA.—Punxsutawney St. Pass. Ry. Co. 2 m 2 m s, 4-8 1/2 g, 51 1/2 lb girder r, 3 m c. Westinghouse system. Newcastle cars. Green engines. Pres. S. E. Wilson, V. Pres. J. K. North, Sec. A. J. Truitt, Treas. Gen. Man. Supt. Pur. Agt. & Elec. L. C. Myers, Ch. Engr. of Power Station S. Pittman. 9 5

PUT-IN-BAY, O.—Put-In-Bay Water Works, Light & Ry. Co. 2 m, 4-8 1/2 g, 75 lb T r, 8 c, of which 4 are m c and 4 t c. Westinghouse system. St. Louis cars. Pres. G. H. Ketcham, V. Pres. and Gen. Man. J. K. Tillotson, Sec. and Treas. F. M. Ohl. 3 4

QUEBEC, CAN.—Quebec St. Ry. Co. 3 1/2 m, 3 1/2 m s, 4-8 1/2 g, 45 lb Phila. r, 13 c, 69 h. Stephenson cars. Pres. W. Hossack, V. Pres. G. Lemoine, Sec. Treas. Supt. & Man. F. T. Boomer, Box 74, Crown St. 12 4

St. John St. Ry. Co. Ltd. 1 1/2 m, 1 1/2 m s, 4-8 1/2 g, 35 lbs b r, 5 c, 30 h. Run a bus service out 4 m from city limits, connecting with car service. Stephenson cars. Pres. A. Robertson, V. Pres. W. DeQuincy Sewell, Sec. & Man. W. W. Martin. Office 566-8 St. John St. 3 5 s

Quebec, Montmorency & Charlevoix Ry. Co. Steam. 30 m, 56 lb T r, 22 c, 4 locomotives. Pres. H. J. Beemer, V. Pres. Paterson Hall, Sec. Lawrence Lynch, Treas. E. F. Wurtella, Man. G. S. Cressman, Gen. Supt. W. R. Russell. 9 5

QUINCY, ILL.—Quincy Horse Ry. & Carrying Co., 12 m, 5 g, 38, 45, 52 lb T and girder r, 28 c, of which 21 m c and 7 t c, 4 mu, Gen. Elec. system. St. Louis cars. Hamilton-Corliss engines. Pres. W. S. Warfield, V. Pres. E. J. Parker, Sec. Supt. & Pur. Agt. E. K. Stone, Jr., Treas. F. W. Meyer. 9 5

QUINCY, MASS.—Quincy & Boston St. Ry. Co. 14 m, 4-8 g, 35, 58 lb T and flat r, 20 m c. Gen. Elec. system. Pres. J. R. Graham, Sec. & Treas. F. H. Smith, Supt. B. J. Weeks. 10 4 s

RACINE, WIS.—Belle City St. Ry. Co. 15 m, 12 m s, 4 g, 45, 62 lb T and girder r, 26 c, of which 20 are m c and 6 t c. Detroit system. American, Brill, Lamokin and St. Louis cars. Bullock-Corliss, McIntosh & Seymour and Westinghouse engines. Pres. & Treas. J. I. Case, V. Pres. C. I. Shoof. Sec. Gen. Man. & Pur. Agt. J. I. Case, Elec. D. M. Howard, Ch. Engr. & Ch. Engr. of Power Station J. F. Foster. Office, 233 Main St. 9 5 1 e

RALEIGH, N. C.—Raleigh Electric Co. 5 1/2 m, 5 1/2 m s, 4-8 1/2 g, 30-56 lb T and girder r, 13 c, of which 12 are m c and 1 t c. Gen. Elec. system. Brill and West End cars. Frick engines. Pres. A. A. Thompson, Sec. C. C. Johnson, Treas. F. H. Briggs, Supt. I. P. Keeler, Office cor. Jones and West Sts. 1 5 s

RAPID CITY, S. DAK.—Rapid City St. Ry. Co. 2 m, 4 g, 25 lb r, 2 c, 3 h. Pres. E. B. Chapman, V. Pres. & Treas. W. Somerville. Leased and managed by Howard Worth. 9 5

READING, PA.—Neversink Mountain R. R. 12 m, 12 m s, 4-8 1/2 g, 56 lb T r, 11 c, of which 7 are m c and 4 t c. Gen. Elec. & Westinghouse systems. Brill and Pullman cars. Allis engines. Pres. R. T. Leaf, V. Pres. G. Brooke, Sec. H. C. Holder, Treas. D. W. Stehman, Supt. D. H. Christian. Office, 536 Penn St. 10 5

Reading & South Western St. Ry. Co. Elec. 5 1/2 m 1 1/2 m s, 4-8 1/2 g, 40-56 lb T and girder r, 14 c, of which 8 are m c and 6 t c. Curtis and Gen. Elec. systems. Brill, Lewis & Fowler and Stephenson cars. Ball engines. Pres. J. W. Shepp, V. Pres. J. B. Sterley, Sec. & Treas. V. S. Seitzer, Gen. Man. Supt. & Pur. Agt., G. W. Kelm. Office, Canal st., below Chestnut 12 4

Reading Traction Co. (Operates Reading City Pass. Ry. and East Reading Electric Ry.) 35 m, 28 m s, 5-2 1/2 g, 90 lb girder r, 133 c, of which 37 are m c and 35 t c, h c 61. Gen. Elec. system. Brill and St. Louis cars. Green and Lake Erie engines. Pres. Gen. Man. & Pur. Agt. J. A. Riggs, V. Pres. R. N. Carson, Sec. & Treas. M. C. Aulebach, Supt. S. E. Riggs, Ch. Engr. of Power Station S. D. Missimer. Office, 5 N. 5th St. 9 5

RED CLOUD, NEB.—Red Cloud Street Ry. 1 m, 3 c, 6 mu. Proprietor, L. Crabbill. 2 3

REDLANDS, CAL.—Redlands St. Ry. Co. 2 1/2 m, 2 1/2 m s, 4-2 1/2 g, 20 lb T r, 1 open c, 7 mu. Baker Iron Works cars. Pres. A. E. Sterling, V. Pres. S. J. Hayes, Treas. First National Bank, Gen. Man. Supt. & Pur. Agt. J. W. Wilson. 9 5

RED OAK, IA.—Red Oak St. Ry. Co. 1 1/2 m, 4-2 1/2 g, 20 lb flat r, 1 c, 2 mu. Pres. Gen. Man. & Supt. M. Bonham, V. Pres. J. Hayes, Sec. F. M. Byrket. 4 4 s

RICHMOND, IND.—Richmond City Elec. St. Ry. Co. 11 m, 4-8 1/2 g, 60 lb T r, 24 c, of which 14 are m c and 10 t c. Gen. Elec. system. Pres. J. F. Miller, Sec. R. B. Harrison, Treas. D. G. Reid, Receiver & Gen. Man. A. D. Tittsworth, Elec. Supt. E. Kessler. 3 4

RICHMOND, VA.—Richmond Ry. & Electric Co. (Controls Richmond & Manchester Ry. Co.) 50 m, 4-8 1/2 g, 45-55 lb flat and c b r, 112 c. Gen. Elec. and Westinghouse systems. Pres. J. P. Munn, V. Pres. D. B. Toucey, Supt. City Division, G. Selden; Supt. Union Division, J. W. Wilbur; Supt. Manchester Division, B. R. Solden. Office, foot of 7th st. New York office, 37 Wall st. 4 5 8

RIVERSIDE, CAL.—Riverside & Arlington St. Ry. 12 m, 12 m s, 4-8 1/2 g, 16-20 lb T r, 6 c, of which 3 are 4-wheel box and 34-wheel open, 20 mu. St. Louis cars. Pres. S. C. Evans, V. Pres. O. Backus, Sec. F. A. Miller, Treas. Riverside Banking Co., Gen. Man. & Supt. G. O. Newman. 9 4

ROANOKE, VA.—Roanoke St. Ry. Co. 22m, 12 m s, 4-8 1/2 g, 50 lb T r, 13 c, of which 11 are m c, and 2 t c. Gen. Elec. and Westinghouse systems. Brill and Gilbert cars. Arlington & Sims engines. Pres. & Man. S. W. Jamison, V. Pres. & Treas. J. T. Engleby, Sec. & Supt. G. C. McCahan, Ch. Engr. & Elec. N. R. Weaver, Ch. Engr. of Power Station, F. O. James. 9 5

ROCHESTER, N. Y.—Rochester Ry. Co. (Operates all lines in city.) 77.45 m, 4-8 1/2 g, 40, 78 lb girder and T r, 211 c, of which 151 are m c and 60 t c, 24 h. Gen. Elec. and Westinghouse systems, 1,143 H. P. Babcock & Wilcox boilers. Pres. John N. Beckley, V. Pres. B. Grabam, Sec. C. A. Williams, Treas. F. P. Allen, Gen. Man. F. O. Rusting, Supt. J. W. Hicks, Ch. Engr. G. W. Howard, Elec. A. Green. Office, 267 State st. 11 5

Rochester & Irondequoit R. R. Co. 6.42 m, 4-8 1/2 g, 40-50 lb r, 10 m c, 3 dummies. Pres. J. N. Beckley, Sec. W. D. Ellwanger, Treas. F. Cook, Supt. I. M. Ludington. Office, Windsor Beach. 7 4 3

ROCHESTER, PA.—People's Electric St. Ry. Co. 3.7 m, 1 1/2 m s, 5-2 1/2 g, 45 lb T and girder r, 4 m c. Gen. Elec. system. Laclede cars. Phoenix engines. Pres. H. P. Brown, Sec. J. P. Stone, Treas. C. H. Bentel, Gen. Man. & Pur. Agt. P. Bentel, Ch. Engr. & Elec. A. L. Fickel. 9 4

ROCKAWAY, N. Y.—The Rockaway Village Ry. Co. 1 1/2 m, 4-8 1/2 g, 47 lb c, b, r, 4 c, 10 h. Pres. C. A. Cheever, V. Pres. J. D. Cheever, Sec. Treas. & Gen. Man. D. L. Haight, Supt. A. McTigue. Office, 13 Park Row, New York. 12 4

ROCKFORD, ILL.—Rockford City Ry. Co. 15 m, 4-8 1/2 g, 40-45 lb tram and T r; 20 c, of which 18 are m c, and 2 t c, 4 h. Gen. Elec. system. Laclede and St. Louis cars, Ball and Ide engines. Pres. R. N. Bayliss, Sec. F. W. McAssey, Treas. W. H. McCutchen, Gen. Man. Supt. & Pur. Agt. T. M. Ellis, Elec. H. J. Termolhen. 1 5 s

West End St. Ry. Co. 11.25 m, 11.25 m s, 4-8 1/2 g, 40 lb T r, 17 c, of which 15 are m c, and 2 t c. Short system. Northern cars. Ide engines. Receiver Title Guarantee & Trust Co. Pres. J. S. Ticknor, Sec. & Supt. C. E. Murtaugh. Office, 205 S. Main st. 9 5

ROCKLAND, MASS.—Rockland & Abington St. Ry. Co. (See North Abington, Mass.)

ROCKLAND, ME.—Rockland, Thomaston & Camden St. Ry. Co. 14 1/2 m, 4-8 1/2 g, 50 lb T r, 23 m c. Gen. Elec. system. Briggs cars. Hamilton-Corliss engines. Pres. & Gen. Man. G. E. Macomber, Sec. H. M. Heath, Treas. A. D. Bird, Supt. & Pur. Agt. T. Hawken. 2 5 s

ROCKPORT, TEX.—Aransas Pass St. Ry. Co. 4 m, 4 g, 20 lb T r, 2 c, 4 mu. Pres. H. W. Davis, V. Pres. W. P. Poland, Sec. & Treas. C. W. Booth. Address Box 129, P. O. 1 4

ROME, GA.—City Electric Ry. Co. (Operates North & South St. Ry.) 5 m, 5 m s, 4-8 1/2 g, 35 lb, and 40 lb T r, 12 c, of which 7 are m c and 5 t c. Gen. Elec. system. Brill, Lamokin and own cars. Ball engines. Pres. S. Cunningham, Sec. R. A. Denny, Treas. Gen. Man. Supt. & Pur. Agt. J. B. Marvin, Elec. J. J. Hendricks, Ch. Engr. of Power Station, J. J. Rann. Office, Eighth Ave. near Broad St. 9 5

ROME, N. Y.—Rome City St. Ry. Co. Elec. 6 1/2 m, 4-8 1/2 g, 38 1/2 lb girder r, 13 c, 17 h. Stephenson cars. Pres. J. E. Wardwell, V. Pres. A. C. Kessinger, Sec. & Treas. W. E. Rayland. Office, 115 John st. 7 4 s

RONDOUT, N. Y.—Kingston City R. R. Co. Elec. 2.85 m, 2.73 m s, 4-8 1/2 g, 70 lb girder r, 10 m c. Gen. Elec. system. Pullman cars. Payne engines. Pres. S. D. Coykendall, Gen. Man. & Pur. Agt. G. Coykendall, Sec. & Treas. Peter E. Schoonmaker, Auditor Oscar L. Eastman, Ch. Engr. & Elec. T. C. Coykendall, Ch. Engr. of Power Station, G. H. Lowe. Office, 22 Ferry Street, P. O. Address, Lock Box, 129. 9 5

ROXBOROUGH, PA.—Manayunk & Roxborough Incline Plane & Ry. Co. 7 1/2 m, 5-2 1/2 g, 70 lb girder r, 22 elec. cars. Gen. Elec. system. Pres. G. M. Brill, Sec. & Treas. F. Pearson, Supt. J. C. Lugaz. Office, Roxborough, Phila. 7 5

RUTHERFORD, N. J.—Rutherford Ry. Co. 1 m, 4 1/2 g, T r, 2 c, 1 h. Pres. & Treas. H. G. Bell, Sec. D. Stoddard. 9 5

RUTLAND, VT.—Rutland St. Ry. Co. 8 m, 7 1/2 m s, 4-8 1/2 g, 62 lb T r, 11 c, of which 9 are m c and 2 t c. Westinghouse system. Brill cars. Rentpower, Pres. J. W. Cramton, Sec. S. M. Willson, Treas. N. K. Chaffee, Supt. M. McKeough. Pur. Agt. & Elec. W. H. Schott, Office, cor. Grove and State Sts. 9 5

S

SACRAMENTO, CAL.—Sacramento Electric Power & Light Co. 24 1/2 m, 17 m s, 4-8 1/2 g, 35, 56 lb combn. r, 35 c, of which 32 are m c, and 3 t c. Gen. Elec. and Sperry systems. Rent power. Pres. A. Gallatin, Sec. J. Barker, Treas. Cal. State Bank, Gen. Man. H. P. Livermore, Supt. & Ch. Engr. T. A. W. Shock, Cons. Engr. W. F. C. Hasson. Office 28 and N sts. 4 5 s

SAGINAW, MICH.—Union St. Ry. 31 1/2 m, of which 3 1/2 are horse and 28 elec. 28 m s, 4-8 1/2 g, 35, 60 lb T and tram r, 78 c, of which 34 are h c, 27 m c, and 17 t c, 75 h. Detroit system. Brill, Gilbert, Jones and Pullman cars. Westinghouse engines. Pres. F. E. Snow, V. Pres. W. A. Jackson, Sec. L. T. Durant, Treas. J. M. Nichol, Gen. Man. Pur. Agt. & Ch. Engr. W. J. Hart. 12 4

City of Saginaw St. R. R. Co. 3 1/2 m, 4-8 1/2 g, 42 lb c b r, 16 c, 80 h. Pres. D. H. Jerome, Sec. & Treas. G. L. Burrows, Supt. F. G. Benjamin, Office 426 N. Hamilton St. 1 4 s

ST. CATHARINE'S, ONT.—St. Catharine's, Port Dalhousie & Thorold Electric St. Ry. Co. (Limited 8 1/2 m, 4-8 1/2 g, 56 lb T r, 9 c, of which 6 are m c and 3 t c. Gen. Elec. and Van Depoele systems. Water power, Pres. G. Dawson, V. Pres. H. C. Symmes, Sec. & Man. H. D. Symmes. 9 5

ST. CLOUD, MINN.—St. Cloud City St. Car Co. 10 m, 4-8 1/2 g, 40 lb T r, 8 m c. Gen. Elec. system. St. Louis cars. Pres. H. M. Byllesly, V. Pres. C. K. Stearns, Sec. & Treas. G. C. McKnight, Supt. C. S. Benson. 4 5 8

St. Cloud & Sauk Rapids Ry. Co. 3 m, 2 m c. Gen. Elec. system. 9 3

ST. JOHN, N. B.—The St. John Ry. Co. (Succes, sor to the Consolidated Electric Co.) 11 m, 70 lb r Westinghouse and Edison systems. Pres. James Ross, V. Pres. J. M. Robinson, Sec., Treas. & Man. F. W. Warren. 12 5

ST. JOSEPH, MICH.—St. Joseph & Benton Harbor Electric Ry. & Light Co. 5 1/2 m, 3 1/2 m s, 4-8 1/2 g, 52 lb T and girder r, 12 c, of which 6 are m c and 6 t c. Gen. Elec. system. Brill cars. Williams engines. Pres. Gen. Man. & Pur. Agt. W. Worth Bean, Sec. & Treas. W. H. Hull, Supt. H. C. Mason. 12 4

ST. JOSEPH, MO.—St. Joseph Ry., Light, Heat & Power Co. (Reorganization of St. Joseph Traction & Lighting Co.) 33 m, 4 1/2 g, 30, 35, 38, 40, 47, 52 lb T and girder r, 61 c, of which 49 are m c and 12 t c, 3 h, 2 mu. Edison, T-H, Westinghouse and Wightman systems. Brill, Brownell, Gilbert, Lewis & Fowler, St. Louis and Stephenson cars. Arlington & Sims engines. 1,040 H. P. Babcock & Wilcox boilers. Pres. J. T. Gardner, V. Pres. J. R. Owens, Sec. S. S. Terry, Treas. N. Fish, Asst. Treas. G. L. Rollins, Gen. Supt. W. T. Van Brunt. 3 4 k e

ST. LOUIS, MO.—Baden & St. Louis R. R. 3 m, 4-10 g, 24-42 1/2 lb T and tram r, 10 c, 27 h. Pres. & Gen. Man. Geo. S. Case, V. Pres. F. J. McMaster Supt. H. Nelson. Office, Broadway near Baden ave. 1 4

Grand Avenue R. R. Co. 19 m, 4-10 g, 78 lb girder r, 80 c. Gen. Elec. & Walker systems. Pres. H. Scullin, Sec. J. H. Roach, Supt. H. Butler. Office Missouri and Geyer Aves. 5 5

National Ry. Co., of Chicago (Controls Cass Ave. & Fair Grounds Ry. Co., Citizens' Ry. Co. and St. Louis R. R. Co.) Directors D. G. Hamilton, W. T. Baker, E. Buckingham, T. J. Lefeus, G. T. Smith, E. G. Foreman, C. L. Raymond. 9 5

Cass Avenue & Fair Grounds Ry. Co. (Includes Northern Central and Union Rys. Controlled by National Ry. Co.) 31.49 m, 31.49 m s, 4-10 g, 78, 80 lb girder r, 140 c, of which 70 are m c and 70 t c. Gen. Elec. system. Brownell, St. Louis and Stephenson cars. Allis engines. Pres. D. G. Hamilton (Chicago), V. Pres. & Gen. Man. Robt. McCulloch, Sec. & Treas. C. N. Duffy, Elec. Richd. McCulloch. Office 3, 820 Easton Ave. 9 5

Citizens' Ry. Co. (Controlled by National Ry. Co.) 15.83 m, 4-10 g, 78, 85 lb girder r, 65 m c. Gen. Elec. system. American cars. Allis engines. Pres. D. G. Hamilton, V. Pres. & Gen. Man. Robt. McCulloch, Sec. & Treas. C. N. Duffy, Elec. Richd. McCulloch. Office, 3,820 Easton Ave. 9 5

St. Louis R. R. Co. (Controlled by National Ry. Co.) 14.7 m, 7.35 m s, 4-10 g, 78 lb girder r, 280 c, of which 80 are g. c. 80 box c. and 80 open c. Brownell and own cars. Pres. G. D. Hamilton, V. Pres. C. Pepper, Sec. & Treas. R. B. Jennings, Gen. Man. R. McCulloch. Office, 3,820 Easton Ave.

Jefferson Ave. Ry. Co. (Operated by Union Depot R. R. Co.) 5.7 m, 2.9 m s, 4-10 g, 56, 78 lb tram and girder r, 40 c, of which 20 are box and 20 open, 190 mu. Brownell, St. Louis and Stephenson cars. Pres. P. C. Maffit, V. Pres. & Gen. Man. J. Scullin, Sec. W. D. Henry, Supt. T. W. Murphy. Office, Geyer and Missouri Aves. 1 5 s

Lindell Ry. Co. (Operates Compton Heights, Union Depot & Merchants' Terminal Ry. and Taylor Avenue St. Ry.) 56 m, 4-10 g, 78, 81 lb girder r, 202 c of which 155 are m c and 47 t c. Gen. Elec., Short and Westinghouse systems. Brill and St. Louis cars. Porter-Allen engines. Pres. E. Whitaker, Sec. & Treas. Jas. Adkins, Gen. Man. & Supt. Geo. W. Baumhoff, Elec. A. W. Morrell, Ch. Engr. of Power Station, S. G. Hill. Office, 2,330 Chouteau Ave. 4 5 s

Missouri R. R. Co. (Operates Forest Park & Laclede Ave. & Fourth St. Ry.) 23 1/2 m, 9 of which are cable and 16 1/2 elec. 19 m s 4-10 g, 63, 78 lb girder r, 248 c, of which 44 are g. c. 44 m c, and 160 t c, 32 h. Gen. Elec. system. American, Brill, Brownell, Laclede and Stephenson cars. Hamilton-Corliss engines. Pres. & Gen. Man. P. C. Maffit, V. Pres. J. A. Scudder, Sec. & Treas. F. R. Henry, Supt. & Pur. Agt. James F. Davidson, Ch. Engr. W. Bartlett, Elec. A. C. Thompson, Ch. Engr. of Power Station P. W. McCormick. Office 10 S. Compton Ave. 9 5

People's R. R. Co. Cable. 10 m, 4-10 g, 78 lb girder r, 120 c, of which 40 are g c and 80 t c, 12 h. Brownell and Stephenson cars. Hooven, Owens & Rentschler engines. Pres. Chas. Green, V. Pres. & Gen. Man. J. Mahoney, Sec. & Treas. D. J. Mahoney. Office, 1,801 Park ave. 1 5 s

St. Louis R. R. Co. Cable. 14 1/2 m, 7.35 m s, 4-10 g, 78 lb girder r, 240 c, of which 80 are g c 80 box and 80 open c. Brownell and own cars. Pres. D. G. Hamilton (Chicago), V. Pres. C. Pepper, Sec. & Treas. R. B. Jennings, Gen. Man. Robt. McCulloch. Office, 3,820 Easton Ave. 4 5 s

St. Louis & East St. Louis Electric Ry. Co. 2 m, 1 m s, 4-10 g, 48-56 lb girder r, 7 m c. Gen. Elec. system. Brownell, Wight and St. Louis cars. Ide engines. Pres. D. R. Powell, V. Pres. C. C. Carroll, Sec. D. T. Breck, Asst. Supt. & Elec. W. H. Williams. Office, 115 N. 3d st. 9 5

St. Louis & Suburban Ry. Co. 28 m, 4-10 g, 35, 40, 69 lb T and girder r, 80 m c. Gen. Elec. system. Brownell and St. Louis cars. Hamilton Corliss engines. Pres. C. H. Turner, V. Pres. S. M. Kennard, Sec. & Treas. R. Lehmann, Jr., Gen. Supt. T. F. Sneed, Ch. Engr. W. Bartlett, Elec. H. O. Rockwell. Office, 304 N. 8th St. 9 5

Southern Electric Ry. Co. Elec. 16 m, 8 m s, 4-10 g, 78 lb girder r, 130 c, of which 40 are m c and 90 t c. Gen. Elec. system. American cars. Allis and Ball engines. Pres. C. Kilpatrick, V. Pres. W. R. Davis, Sec. Treas. & Gen. Man. Jos. S. Minary, Supt. J. C. Allen. Office, 4041 So. Broadway. 4 5 s

Union Depot R. R. Co. (Controls Benton, Bellefontaine and Mound City Rys., operates Jefferson Ave. Ry.) 67 m, 4-8 1/2 g, 75 lb girder r, 281 c, of which 215 are m c and 166 t c. Gen. Elec. system. St. Louis and Stephenson cars. 1,000 H. P. Babcock & Wilcox boilers. Pres. J. Scullin, V. Pres. & Gen. Man. H. Scullin, Sec. Jas. H. Roach, Supt. T. W. Murphy. (b. Engr. W. C. Gotschall. Office Geyer and Missouri Aves. 1 5 s

East St. Louis Electric Ry. Co. (See East St. Louis, Ill.)

ST. PAUL, MINN.—Twin City Rapid Transit Co (see Minneapolis, Minn.)

St. Paul & White Bear Ry. Co. 11 1/2 m, 4-8 1/2 g, 48 lb T r, 13 c, of which 9 are m c and 4 t c. Gen. Elec. system. Northern and Pullman cars. Ide engines. Receiver F. A. G. Moe. 4 5 s

ST. THOMAS, CAN.—St. Thomas St. R. R. Co. 2 m, 3 1/2 g, 30 lb tram r, 4 c, 8 h. Pres. Cameron Currie, V. Pres. J. Winter, Sec. C. W. Smith, Treas. S. Hendrie. Office, St. Thomas, Ont. 9 5

SALEM, MASS.—(See Lynn.)

SALEM, N. C.—Winston-Salem Ry. & Elec. Co (See Winston, N. C.)

SALEM, O.—Salem Electric Ry. Co. 3 1/2 m, 3 m s, 4-8 1/2 g, 45 lb Johnson girder r, 6 c, of which 4 are m c, and 2 t c. Gen. Elec. system. Buckeye engines. Pres. & Treas. M. Davis, V. Pres. J. M. Evans, Sec. D. L. Davis, Gen. Man. Supt. & Pur. Agt. L. Davis, Elec. W. Shaffer, Ch. Engr. & Ch. Engr. of Power Station J. Wolf. Office, 210 E. Main st. 9 5

SALEM, ORE.—Salem Consolidated St. Ry. Co. 8 m, 8 m s, 4-8 1/2 g, 40 lb T r, 9 m c. Gen. Elec. system. Brill, Pullman and Stockton cars. Beck, Sioux City and Westinghouse engines. Pres. E. P. McCormack, V. Pres. D. S. Tutthill, Sec. F. H. Page, Treas. Gen. Man. Pur. Agt. & Ch. Engr. F. R. Anson, Supt. L. McGrew, Elec. A. Biglow, Ch. Engr. of Power Station L. Kibebe. Office, 179 Commercial St. 9 5

SALT LAKE CITY, UTAH.—Salt Lake City R. R. Co. 42 m, 32 m s, 4-8 1/2 g, 30, 35, 40, 72 lb T r, 63 c, of which 58 are m c and 5 t c. Gen. Elec. system. Stephenson cars. Fraser & Chalmers engines. Pres. A. W. McCune, V. Pres. R. C. Chambers, Sec. & Treas. Joseph S. Wells, Supt. & Pur. Agt. W. P. Read, Ch. Engr. & Ch. Engr. of Power Station O. J. Carison. Office Hooper Bldg. 9 5

Salt Lake Rapid Transit Co. 33 m, 26 m s, 4-8 1/2 g, 35, 40, 79 lb T and girder r, 41 c, of which 30 are m c and 11 t c, 2 h. Gen. Elec. and Westinghouse systems. St. Louis, Stephenson and Woebler cars. Ide engines. Pres. & Gen. Man. J. S. Cameron, V. Pres. J. M. Donnellan, Sec. C. B. Jack, Treas. G. S. Ganett, Asst. Supt. & Pur. Agt. F. McBroome, Ch. Engr. of Power Station W. J. Travers. Office, 176 State st., Rooms 14, 15, 16. 9 5

West Side Rapid Transit Co. Elec. & Steam. 8 m, of which 6 are steam and 2 elec. 4-8 1/2 g, 30 lb T r, 4 c. T-H system. Pres. & Gen. Man. J. G. Jacobs Treas. E. W. Wilson. Office Eagle Block. 1 4

SAN ANTONIO, TEX.—San Antonio St. Ry. Co. 34 m, 4 g, 40, 45, 56 lb T r, 45 c, of which 39 are m c and 6 t c. Gen. Elec. system. St. Louis cars. Arlington & Sims engines. Pres. & Treas. W. H. Weiss, V. Pres. T. C. Frost, Sec. & Supt. D. D. Willis, Asst. Supt. T. C. Brown, Audr. J. J. King. Office 111 1/2 W. Houston St. 11 4 s

Citizens' Electric Power & St. Ry. Co. 10 m, 4-8 1/2 g, 40, 48 lb T r, 17 c. Gen. Elec. system. Lewis & Fowler cars. Pres. W. J. Clark, V. Pres. H. E. Barnard, Sec. & Treas. A. H. Dollard, Supt. & Pur. Agt. T. H. Wicklejohn, Elec. J. Ellerson. Office, 415 Navarro St. 9 5

San Antonio Rapid Transit St. Ry. Co. 5 1/2 m, 5 m s, 4-8 1/2 g, 40 lb T r, 5 c of which 3 are m c and 2 t c. T-H system. Brill cars. Bullock engines. Pres. H. B. Chamberlin, V. Pres. H. H. Russel, Sec. G. S. Limons, Treas. C. W. Ogden, Supt. Pur. Agt. & Ch. Engr. B. W. Randall, Elec. B. Parker. Office 525 E. Houston St. 9 4

West End St. Car Co. 5.8 m, 4.8 m s, 4-0 g, 30 lb T r, 6 c, of which 3 are m c and 3 t c. Gen. Elec. system. Pres. & Gen. Man. G. W. Russ, V. Pres. F. H. Baldwin, Sec. J. N. Groesbeck, Treas. Thad. W. Smith, Supt. Pur. Agt. & Elec. F. M. Dowden. Office, 285 Commerce St. 9 4

SAN BERNARDINO, CAL.—Southern California Motor Road Co. 12 m, 4-8 1/2 g, 40 lb T r, 6 c, 3 Baldwin motors. Receiver J. A. Muir, Sec. & Treas. W. S. Hooper, Supt. H. C. Guitteau. Office, 3rd & E Sts. 9 4

City St. Ry. Co. 3 1/2 m, 4-8 1/2 g, 20 lb T r, 9 c, 12 h. Pres. H. W. Barton, V. Pres. J. Anderson, Sec. & Gen. Man. C. E. Payne. 9 4

SAN DIEGO, CAL.—San Diego Cable Ry. Co. 10 1/2 m, 3-6 g, 20-30 Z & T r, 14 c of which 10 are combn. & 4 open. Receiver, G. H. Hensley. 11 2

San Diego Electric Ry. Co. 20 m, of which 5 are horse and 15 elec. 4-8 1/2 g, 38, 40, 52 1/2 lb T & girder r, 40 c, of which 30 are h c and 10 m c. T-H system. 312 H. P. Babcock & Wilcox boilers. Pres. A. B. Spreckels, V. Pres. E. S. Babcock, Sec., Treas. & Gen. Man. J. A. Flint. Office E and Arctic sts. 9 3

San Diego Old Town & Pacific Beach R. R. Co. Steam. 10 m, 4-8 1/2 g, 35, 40 lb. T r, 15 c. Hammond cars. Baldwin engines. Pres. Treas. & Gen. Man. H. Dabney, V. Pres. E. S. Babcock, Sec. R. P. Dabney, Supt. C. D. Boyd, Ch. Engr. L. J. Davids 10 5

San Diego, Pacific Beach & La Jolla Ry. Co. Dummy. 4 1/2 m, 4-8 1/2 g, 40 lb T r. Pres. & Gen. Man. H. Dabney, Sec. R. P. Dabney, Treas. Merchants' Nat. Bank, Supt. C. D. Boyd, Ch. Engr. L. J. Davids 10 5

SANDUSKY, O.—Sandusky St. Ry. Co. Elec. 9 m, 7 m s, 4-8 1/2 g, 45 lb T and girder r, 14 m c. Walker and Westinghouse systems. Brownell and Gilbert cars. Pres. A. J. Stoll, V. Pres. C. H. Moss, Sec. & Treas. G. F. Anderson 12 4

People's Electric Railway Co. 6 1/2 m, 4-8 1/2 g, 40-45 lb T and girder r, 8 m c. Westinghouse system. Pres. W. H. Gletcher, V. Pres. G. Barney, Sec. & Treas. A. W. Prout, Gen. Man. & Supt. T. Wood, Office 122 Lawrence st. 4 5 s

Sandusky, Milan & Norwalk Electric Ry. Co. 18 m, 4 1/2 g, 50 lb T and Girder r, 8 m c. Westinghouse system. McIntosh & Seymour engines. 372 H. P. Babcock & Wilcox boilers. Pres. G. H. DeWitt, V. Pres. H. Kelley, Sec. Gen. Man. & Pur. Agt. Thomas Wood, Treas. A. W. Prout. Office, West House Block. 9 5

SANFORD, ME.—Mousam River R. R. Co. Elec 3.17 m, 2.75 m s, 4-8 1/2 g, 60 lb T r, 7 c, of which 3 are m c and 4 t c. Westinghouse system. Amesbury and Briggs cars. Swampscott-Corliss engines. Humphrey water wheel. Pres. E. M. Goodall, V. Pres. G. B. Goodall, Sec. & Treas. L. B. Goodall, Gen. Man. Supt. & Pur. Agt. C. A. Bodwell, Elec. A. J. Robinson, Ch. Engr. of Power Station S. Spinney. Office, Washington St. 5

SAN FRANCISCO, CAL.—California Street Cable R. R. Co. 1 1/2 m, 5 1/2 m s, 3-6 g, 38 lb s-b r, 60 c, 360 H. P. Babcock & Wilcox boilers. Pres. J. B. Stetson, V. Pres. A. Borel, Sec. A. Stetson, Treas. A. Borel & Co., Gen. Man. Supt. & Pur. Agt. J. W. Harris, Ch. Engr. & Ch. Eng. of Power Station A. D. McLean. Office, Cor. California & Hyde sts. 9 4

Geary St., Park & Ocean R. R. Co. Cable 8 m, s, 4-8 1/2 g, 72-10 lb c b girder and T r, 71 c, of which 31 are g c, 10 combn. c, 30 t c. Union Iron Works engines. 208 H. P. Babcock & Wilcox boilers. Pres. C. F. Crocker, V. Pres. A. Grant, Sec. & Gen. Man. J. L. Willcutt, Treas. N. T. Smith, Supt. A. W. Barron, Man. Dept. of Purchases and Supplies, R. P. Schwerin. Offices, Union Trust Bldg. and Hobart Bldg. 1 5 8

Market St. Ry. Co. (Includes Central R. R., North Beach & Mission Ry., City R. R., Potrero & Bay View R. R., Market St. Cable Ry., Park & Ocean R. R., Ocean Beach Ry., Southern Heights & Vistation Ry., Ferris & Cliff House Ry., Metropolitan Ry., Omnibus Cable and Market St. & Fairmount Ry. Cos.) 186.18 m, of which 31.63 are horse, 65.9 cable, 18.3 steam, 70.35, elec. 102 m s, 3-6, 4-8 g, and 5 g, 37-78 lb tram, girder and T r, 908 c, of which 250 are h c, 431 combn c, 180 m c, 47 motors and coaches, 338 h. Gen. Elec. system. Union Iron Works engines. 2208 H. P. Babcock & Wilcox boilers. Pres. C. F. Crocker, V. Pres. H. E. Huntington, Sec. & Controller J. L. Willcutt, Treas. N. T. Smith, Gen. Man. E. P. Vining, Div. Supts. A. W. Barron, J. C. Skinner, M. D. Stein, H. O. Rogers, Man. of Purchases and Supplies, R. P. Schwerin, Elec. F. Vanatta, Offices, Union Trust Bldg. and Hobart Bldg. 9 5

Presidio & Ferris R. R. Co. 1 1/2 m of which 7 1/2 are cable, 2 horse and 2 steam, 5 g, 40 and 42 lb c b r, 30 c, of which 5 are h c and 25 g c, 30 h. Pres. G. A. Newhall, V. Pres. H. M. A. Miller, Sec. John B. Leighton, Treas. J. C. Johnson, Supt. I. F. Kydd. Office, 1,111 Union St. 5 4 8

San Francisco & San Mateo Ry. Co. 27 m, 23 m s, 4-8 1/2 g, 50 lb T & combn r, 37 m c. Gen. Elec. system. Carter and O'Brien cars. Risdon I. W. engines. Receiver, S. Bennett, Pur. Agt. & Supt. S. B. McLeneghan, Ch. Engr. Robert Baxter, Elec. H. O'Donerty. Office 30th St. & San Jose Ave. 9 5

Sutter St. Ry. Co. 13 m, of which 1 1/2 is horse and 11 1/2 cable, 6 1/2 m s, 5 g, 42 lb girder r, 75 c, of which 2 are h c and 73 g c, 60 h. Own cars. Union Iron Works engines. Pres. R. F. Morrow, V. Pres. J. L. Schmitt, Sec. A. K. Stevens, Treas. M. Schmitt, Supt. & Pur. Agt. J. Reynolds, Ch. Engr. F. E. Mason. Office, corner Sutter & Polk sts. 9 5

United R. R. Co. Pres. B. F. Langford, Sec. & Gen. Man. J. W. Hartzell, Treas. T. C. Kierulff. Office 215 Sansone St. 5

SAN JOSE, CAL.—San Jose & Santa Clara R. R. Co. Elec. 12 m, 3 g, 35 lb T r, 20 c, of which 16 are m c and 4 t c. Gen. Elec. system. Pres. J. H. Henry, V. Pres. & Gen. Man. J. P. Burke, Sec. J. T. McGeoghegan, Treas. Com. & Sav. Bank, Supt. W. W. Skinner, Ch. Engr. P. C. Carmen, Coleman, Elec. F. K. Bowden. Office, The Alameda. 9 5

First St. R. R. Elec. 10 m, 3 g, 30 lb steel T r, 12 c of which 7 are m c and 5 t c. T-H system. Jacob Rich, Sole Owner; Sec. E. M. Rosenthal. 3 4

Willow Glen R. R. 2 1/2 m, 3 g, 20 lb steel T r, 3 c, 20 h. Sole owner Jacob Rich, Sec. E. M. Rosenthal. 3 4

SAN LUIS OBISPO, CAL.—San Luis St. Ry. Co. (Owned by West Coast Land Co.) 2 1/2 m, 3 g, 16 lb T r, 5 c, 10 h. Pres. J. L. Howard, V. Pres. R. E. Jack, Sec. C. H. Phillips, Treas. West Coast Land Co., Man. & Pur. Agt. C. O. Johnson. Office, Iliguera St. 9 5

SANTA ANA, CAL.—Santa Ana, Orange & Tustin St. Ry. Co. 10 m, 3-6 g, 16 & 25 lb steel T r, 6 c, 10 h, 6 mu. Pres. & Gen. Man. M. J. Bundy, V. Pres. Noah Palmer, Treas. Commercial Bank, Sec. Miss. M. A. Ross-Lewin. Office, 419 North Main St. 4 4

SANTA BARBARA, CAL.—Santa Barbara St. R. R. Co. and Citizens' St. R. R. Co. of Santa Barbara. 7 m, 3-6 g, 20 lbs T r, 7 c, 36 mu. Pres. Warren Gillilen, Sec. & Supt. C. R. Diver, Treas. G. H. Bonebrake. Office, State st. 6 3

SANTA CRUZ, CAL.—Santa Cruz Electric Ry. Co. (Owns Pacific Ave. R. R.) 7 m, 3-2 g, 35, 40 lb T and combn. r, 8 m c. Gen. Elec. system. Holt Bros. and Hammond cars. Pres. J. H. Logan, V. Pres. J. P. Smith, Sec. W. T. Jeter, Treas. Bank of Santa Cruz County, Gen. Man. & Pur. Agt. F. W. Ely. 9 5

SANTA ROSA, CAL.—Santa Rosa, St. R. R. Co. 1 1/2 m, 3-6 g, 12 lb T r, 5 c, 4 h, 3 mu. Pres. M. L. McDonald, Sec. & Treas. M. L. McDonald, Jr. 4 4

40 lb T and flat r, 54 m c. Gen. Elec. and Westinghouse systems. Brill cars. Armstrong & Sims engines. Pres. Gen. Man. & Pur. Agt. J. S. Collins, V. Pres. J. Paulsen, Sec. & Treas. T. G. Read, Supt. & Elec. J. W. McFarland, Ch. Engr. & Ch. Engr. of Power Station E. F. R. Grayson. 9 5

Savannah, Thunderbolt & Isle of Hope Ry. Co. 9 m, 5 g, 45, 50 lb T r, 17 m c, of which 15 are m c, and 2 t c. Gen. Elec. system. Brill and St. Louis cars. Cooper engines. 700 H. P. Babcock & Wilcox boilers. Pres. & Treas. J. H. Johnston, V. Pres. H. Parsons, Sec. E. J. Thomas, Supt. J. T. Lewis, Ch. Engr. of Power Station, W. E. McIntyre. Office, Bolton st. 11 5

SCHENECTADY, N. Y.—Schenectady Ry. Co. 4 1/2 m, 4 1/2 m s, 4-8 1/2 g, 69-90 lb T and girder r, 13 m c. Gen. Elec. system. Gilbert, Jones and Stephenson cars. Westinghouse engines. Pres. W. H. White, V. Pres. & Man. G. W. Jones, Sec. W. P. Esselstyn, Treas. J. P. Ord, Supt. H. S. Cooper. Office, 224 State St. 9 5

SCRANTON, PA.—People's St. Ry. Co., of Luzerne County. (Operates Nayaug, Crosstown, Scranton & Suburban Scranton Passenger Ry., Scranton & Carbondale Traction and Scranton & Pittston Traction. Controlled by Scranton Traction Co.) 30 m, 4-8 1/2 g, 40, 52 lb girder and T r, 88 m c. Westinghouse system. Dickson-Corliss engines. Pres. P. S. Page, V. Pres. & Gen. Man. F. Silliman, Sec. & Treas. Horace E. Hand, Supt. C. H. Smith. 4 5 s k e

Scranton Traction Co. (Operates People's, Nayaug, Crosstown, Scranton & Suburban and Scranton Pass. Rys.) Pres. J. P. Ilsley, V. Pres. C. M. Clark, Sec. & Treas. C. F. Stevens, Gen. Man. F. Silliman, Gen. Supt. R. F. Fox. 4 5 s k e

Scranton & Pittston Traction Co. (Leased by Scranton Traction Co.) 12 m, 4-8 1/2 g, 56 lb T r, 9 m c. Gen. Elec. system. St. Louis and Jackson & Sharp cars. Pres. L. A. Watres, Sec. & Treas. C. H. Mullin. 9 5

SEARCY, ARK.—Searcy & West Point R. R. Co. 8 1/2 m, of which 3 1/2 are horse & 5 steam, 4-8 1/2 g, 35 lb T r, 2 c, 2 mu. St. Louis cars. Porter engines. Pres. W. H. Lightlie, V. Pres. E. A. Robbins, Sec. John S. Sanford, Treas. J. E. O'Killeen, Gen. Man. Supt. & Pur. Agt., J. Hicks, Ch. Engr., J. M. Finley. 9 5

SEATTLE, WASH.—Grant Street Electric Ry. Co. 6 1/2 m, 3-6 g, 35 lb girder and T r, 11 m c. Gen. Elec. system. Rolphs & Shoder cars. Ball engines. Receiver W. J. Grambs, Pres. F. E. Sanders, V. Pres. Mrs. N. B. Sanders, Sec. & Treas. L. D. Bruns, Supt. E. G. Maxwell, Elec. E. B. Parsons. 9 5

Madison St. Cable Ry. Co. (Controls South Seattle Cable Ry.) 7 1/2 m, 3.6 m s, 3-6 and 4-8 g, 38 lb girder r, 19 c of which 16 are g c and 3 ft. c. S. C. H. & A. Works cars. Hoovens, Owen & Rentschler engines. Pres. H. G. Struve, V. Pres. R. H. Denny, Sec. M. McMicken, Treas. J. Furth, Asst. Sec. W. B. Goodrich, Supt. S. Gibson. Office Madison St. Power House. 9 4

Seattle & Rainier Beach Ry. (Successor to Rainier Avenue Electric Ry. Co.) 8 m, 8 m s, 4-8 1/2 g, 30-45 lb T & girder r, 14 c, of which 4 are m c and 10 t c. Gen. Elec. system. Northern cars. Corliss type engine. Gen. Man. & Pur. Agt. F. H. Osgood, Elec. S. F. Barrell. 9 5

Seattle City Ry. Co. Cable. 5 m, 5 m s, 3 g, 16 lb T r, 27 c, of which 12 are g c and 15 t c. Receiver W. A. Underwood, 40 Wall st., New York, Gen. Man. Supt. & Pur. Agt. A. F. Haas, Ch. Engr. of Power Station C. A. Johnston, Office Power House, Yessler Ave. 1 4

Seattle Consolidated St. Ry. Co. (Controls Front St. Cable, Green Lake Electric, North Seattle Cable and Rainier Ry. & Power Co.) 14.4 m, 10 m s, 4-8 1/2 g, 30, 40, 44, 46 lb T and girder r, 20 m c. Gen. Elec. and Westinghouse systems. Hammond cars. Reynolds-Corliss engines. Receiver M. F. Backus, and A. L. Kempster, Gen. Man. Supt. & Pur. Agt. S. L. Shuffelton, Ch. Engr. of Power Station, R. E. McCormacks. Office, 200 Pike st. 9 5

Union Trunk Line. 16 m, of which 12 1/2 are elec. and 1 1/2 cable; 3-6 g, 56 lb T and girder r, 23 c, of which 15 are m c and 8 g c. Gen. Elec. system. Lane & Bodley engines. Pres. M. H. Young, V. Pres. F. E. Sander, Sec. J. D. Lowman, Treas. R. R. Spencer, Gen. Supt. & Pur. Agt. D. Bruce, Elec. W. W. McGilvary, Ch. Engr. J. C. Biegert. Office, James St. Power station. 9 5

West Seattle Cable Ry. Co. 2 m, 3-6 g, 4 c. Wheelock engines. Pres. T. Ewing, Man. J. H. Watson. 12 1

West St. & North End Electric Ry. Co. 10 m, 6 m s, 4-8 1/2 g, 36, 50 lb T and girder r, 14 c, of which 13 are m c and 1 t c. Gen. Elec. system. Northern cars. Hamilton-Corliss engines. Pres. & Treas. S. L. Shuffelton, V. Pres. B. Pelly, Sec. W. A. Walthen, Gen. Man. Supt. & Pur. Agt. O. Elmore, Ch. Engr. of Power Station, C. G. Smith. Office, 618 Burk Bldg. 9 5

Woodland Park Electric Ry. Co. 1 1/2 m, 4-8 1/2 g, 60 lb T r, 1 m c. T-H system. Brill cars. Pres. & Gen. Man. Sec. & Treas. C. J. Brenton. Office 110 Seneca St. 4 3

SEDALIA, MO.—The Electric Ry., Light & Power Co. of Sedalia. 12 m, 9 m s, 4-8 1/2 g, 35 lb T r, 15 c, of which 10 are m c and 5 t c. Gen. Elec. system. St. Louis cars. Buckeye and Phoenix engines. Pres. W. E. Sterne, V. Pres. M. E. Sterne, Sec. Treas. Gen. Man. & Pur. Agt. D. C. Metsker, Supt. Chas. Carroll, Ch. Engr. Elec. & Ch. Engr. of Power Station J. Riley. Office, 500 E. 9th St. 9 5

SELMA, ALA.—Selma St. & Suburban Ry. Co. Dummy. 8 m, of which 2 1/2 are horse and 5 1/2 steam 4-8 1/2 g, 20 & 35 lb T r, 10 c, of which 6 are h c and 4 t c, 1 steam motor, 20 mu. Pres. S. H. March, Sec. Treas. & Gen. Man. R. H. McFaddin. 11 2

SENeca FALLS, N. Y.—Seneca Electric Ry. Co. 3 1/2 m, 4-8 1/2 g, 40 lb T r, 5 c, of which 3 are m c and 2 t c. Gen. Elec. system. Brill cars. Pres. S. L. Phillips, V. Pres. & Treas. J. H. Gould, Sec. C. H. Williams, Supt. E. F. Slack. 5 4 8

Seneca Falls & Cayuga Lake Traction Co. SHAMOKIN, PA.—Shamokin Electric St. Ry. Co. 3 1/2 m, 5-2 g, 35, 42 lb T and girder r, 8 c, of which 6 are m c and 2 t c. Gen. Elec. and Westinghouse system. Brill cars. Harrisburg and Ball engines. Pres. R. S. Aucker, Sec. J. John Treas. M. Markie, Gen. Man. Supt. Pur. Agt. & Elec. D. S. Kennedy, Ch. Engr. & Ch. Engr. of Power Station, B. Evans. 9 5

Shamokin & Mt. Carmel Electric Ry. Co. 20 m, 4-8 1/2 g, 60, 70 lb T r, 23 c. Gen. Elec. system. Brill and St. Louis cars. Allis engines. Pres. E. C. Hamilton, Sec. H. R. Shavey, Treas. C. Smith, Supt. W. P. Marr. Office, 321 Independent St. 9 5

SHARON, PA.—The Valley St. Ry. Co. 4.45 m, 5-2 1/2 g, 47 lb T and girder r, 6 m c. Gen. Elec. system. New Castle cars. Phoenix engines. Pres. A. M. Jolly, Sec. A. R. Leyda, Treas. A. McDowell, Gen. Man. Supt. Pur. Agt. & Ch. Engr. F. D. Runser. 9 5

SHEBOYGAN, WIS.—Sheboygan Light, Power & Ry. Co. 11 m, 9 m s, 4-8 1/2 g, 48 & 60 lb T r, 18 c, of which 6 are m c and 12 t c, 10 h and mu. Brill and aclede cars. Allis engines. Pres. G. B. Mattoon, V. Pres. & Man. J. M. Saemann, Sec. E. L. Debell, Treas. F. L. Saemann, Supts. A. O. Baker and C. F. Bacon. Office 1115 No. 8th St. 9 4

SHERMAN, TEX.—Sherman City St. R. R. Co. 4 m, 4 1/2 g, 20, 35 lb T r, 10 c, 50 mu. Pres. Gen. Man. & Owner C. W. Batsell, Sec. C. W. Batsell, Jr., Treas. & Supt. J. M. Batsell. 9 4

College Park Rapid Transit Co. 4 1/2 m 4 1/2 m s, 4-8 1/2 g, 25 lb T r, 8 m c. Gen. Elec. system. Pres. J. R. Cole, V. Pres. J. M. Cullers, Sec. R. S. Dorchester, Treas. J. P. Harrison. 12 4

SHREVEPORT, LA.—Shreveport City R. R. Co. 1 1/2 m, 4-4 g, 46 lb r, 6 c, 14 h. Pres. S. Levy, Jr., V. Pres. P. J. Trezovant, Sec. Jules Dreyfuss. 7 0

Shreveport Ry. & Land Improvement Co. Elec. 5 1/2 m, 4-8 1/2 g, 40-45 T and Johnson girder r, 8 c, of which 4 are m c and 4 t c. Gen. Elec. system. Pres. S. B. McCutchen, Sec. W. B. Jacobs, Gen. Man. J. R. Jones, Supt. J. G. Keller. Office 525 Spring St. 11 2 s

SINGING, N. Y.—Ossining Electric Ry. Co. 3 m, 4-8 1/2 g, 50 lb T r, 10 m c. Gen. Elec. system. Gilbert cars. Ball & Wood and McIntosh & Seymour engines. Pres. A. S. Underhill, V. Pres. J. V. Cockcroft, Sec. F. L. Young, Treas. S. E. Tompkins, Gen. Man. & Pur. Agt. J. Champlain, Asst. Man. Wm. G. Duntz, Ch. Engr. J. Kay. 4 5 8

STIOUX CITY, IA.—Sioux City Traction Co. 20 1/2 m, 14 m s, 4 g, 45-58 lb T and girder r, 46 c, of which 30 are m c and 16 t c. Gen. Elec. and Westinghouse systems. Pullman cars. Allis engines. Pres. & Gen. Man. J. C. French, V. Pres. E. H. Stone, Sec. & Treas. C. B. Oldfields, Cashier F. L. Brown, Supt. & Elec. I. B. Walker. Office, 5th and Jackson Sts. 9 5

Riverside Park Ry. Co. 8 m, 4-8 1/2 g, 40 lb T r, 12 c, of which 6 are m c. and 6 t c. Westinghouse system, Northern Car Co. cars. Westinghouse engines. Receiver E. L. Kirk, Ch. Engr. of Power Station C. Minnelly. Office, Masonic Bldg. 12 4

Sioux City & Morning Side Ry. Co. Dummy. 6 m, 4-8 1/2 g, 50 lb T r, 6 c. Pres. J. N. Jackson, Sec. T. C. Prescott, Treas. D. L. Pratt. 6 3

Sioux City & Leeds Electric Ry. Co. 5.3 m, 5.3 m s, 4-8 1/2 g, 45 lb T r, 5 m c. Detroit system. St. Louis cars. Pres. O. Darlington, V. Pres. J. S. Lawrence, Sec. Treas. & Gen. Man. C. C. Peirce. Office, 300 United Bank Bldg. 9 5

Sioux City Cable Ry. Co. 7 m, 4-8 1/2 g, 45 lb Johnson girder r, 34 c, of which 14 are g c and 20 t c. La. clede and Trimble cars. Williams engines. Receiver H. S. Baker, Pres. J. Peirce, Sec. D. T. Hedges, Treas. W. V. Hedges, Gen. Man. & Supt. C. Moller. 2 3 k d

Sioux City Rapid Transit Co. 6 m, 4-8 1/2 g, 35 and 50 lb T r, 6 c, of which 2 are m c and 4 t c. S. C. R. T. system. Brill and Northern cars. Pres. A. M. Jackson, Treas. E. Haakinson, Supt. & Elec. W. Miller. Office, 407 Nebraska st. 12 4

Washington Park & Spring Grove Ry. Co. 2 1/2 m, 2 1/2 m s, 4-8 1/2 g, 50 lb T r, 1 storage battery c, 2 steam c. Porter engines. Bradbury system. Northern cars. Pres. C. R. Marks, V. Pres. L. W. Fuller, Sec. D. Mould, Treas. E. H. Bucknam. 9 5

STIOUX FALLS, S. DAK.—City St. Ry. Co. 9 m 4-8 1/2 g, 30 lb T r, 6 c, 20 h 30 mu. Pres. R. F. Pettigrew, V. Pres. L. T. Dunning, Sec. & Treas. S. L. Tate, Supt. D. P. Beach. 11 2

S. Dakota Rapid Transit & Ry. Co. 7.38 m, 4-8 1/2 g, 35, 45 lb T and tram r, 5 c, of which 3 are m c and 2 t c. Gen. Elec. system. Pullman cars. Armstrong & Sims engines. Pres. W. R. Kingsbury, V. Pres. C. W. Hubbard, Sec. J. H. Voornees, Treas. & Gen. Man. F. H. Files, Supt. R. L. Wells. 5 4 8

SKOWHEGAN, ME.—Skowhegan & Norridgewock Electric St. Ry. & Power Co. 5 m, 1 m s, 4-8 1/2 g, 40 lb T r, 6 m c. Westinghouse system. Briggs cars. Water power. Pres. W. A. Wildes, Sec. A. R. Bixby, Treas. J. C. Libby, Gen. Man. A. F. Gerald, Supt. & Pur. Agt. E. A. Longfellow, Elec. C. A. Jacobs, Ch. Engr. of Power Station B. Shorey. 11 4

SPRINGFIELD, ILL.—Springfield Consolidated Ry. Co. (Comprises Springfield City Ry. Co. and People's Elec. Ry. Co.) 20 m, 20 m s, 4-8 1/2 g, 40, 60 lb T r, 43 c, of which 33 are m c and 10 t c. Detroit and Gen. Elec. systems. Bates-Corliss engines. Pres. T. J. Muiry, V. Pres. B. Wilson, Treas. & Gen. Man. C. K. Minary, Supt. F. P. McNeill. 9 5

SPRINGFIELD, MASS.—Springfield St. Ry. Co. 34.65 m, 32.83 ms, 4-8 1/2 g, 56 lb T r, 110 c, of which 100 are m c and 10 t c. Gen. Elec. and Westinghouse systems. 1,000 H. P. Babcock & Wilcox boilers. Pres. John Olmsted, Treas. & Man. A. E. Smith. Office 1 Main st. 1 5 s

SPRINGFIELD, MO.—he Springfield Traction T Co. (Successor to Metropolitan Electric Ry Co.) 15.8 m, 12 ms, 4-8 1/2 g, 35 & 45 lb Johnson girder r, 26 c of which 17 are m c and 9 t c. Westinghouse system. St. Louis cars. Hamilton Corliss engines. Pres., Treas., Gen. Man. & Pur. Agt. W. Parker, V. Pres. A. J. Elsenmayer, Sec. C. H. Smith, Supt. S. Barham, Chg. Engr. of Power Station W. C. Duval. 9 5

SPRINGFIELD, O.—Springfield Ry. Co. 25 m, 18 m s, 4 g, 45, 60 lb girder and T r, 50 c of which 25 are m c and 25 t c. Gen. Elec. and Westinghouse systems. Brownell, Laclede, Lamokin and St. Louis cars. Russell engines. Pres. W. B. McKinley, V. Pres. R. S. Hunter, Sec. W. S. Hood, Treas. W. G. McFarland, Gen. Man. S. L. Nelson, Supt. C. E. Miley, Ch. Engr. & Elec'n. A. S. Krotz, Ch. Engr. of Power Station, C. Myers. 12 4

STAMFORD, CONN.—Stamford Street R. R. Co. 7 m, of which 1.75 are horse and 5.25 elec, 7 m s, 4-8 1/2 g, 25, 60 & 70 lb T r, 23 c, of which 18 are h c, 3 m c and 2 t c, 21 b. Gen. Elec. system. Briggs, Jackson & Sharp, St. Louis, Felgel, and Stephenson cars. Pres. E. S. Greeley, V. Pres. W. M. Gillespie, Sec. & Treas. R. A. Fosdick, Supt. G. W. Peirce. Office, Fessenden Block. 9 5

STATEN ISLAND, N. Y.—Staten Island Electric R. R. Co. (Successor to Staten Island Belt R. R. Co.) 30 m, 4-8 1/2 g, 90 lb girder r, 50 c of which 40 are m c and 10 t c. Gen. Elec. system. Brill cars. Allis engines. 750 H. P. Babcock & Wilcox boilers. Pres. John A. Hilton, V. Pres. E. R. Leland, Sec. and Treas. W. E. Findley, Gen. Man. & Pur. Agt. H. G. Quigg, Ch. Engrs. Sheaff & Jaastad. 9 5

Staten Island Midland Ry. Co. (Consolidation of West Brighton Ry. Co. and Prohibition Park Electric R. R. Co.) Equipping with electricity. Pres. J. C. Hinchliffe, Sec. and Pur. Agt. E. G. Wightman, Treas. & Gen. Man. W. B. Rockwell, Supt. H. J. Grigg, Elec'n. M. J. Wightman. Office 65 Canal St., Stapleton, S. I. 9 5

STAUNTON, VA.—City St. Car Co. 5 m, 5 m s 4-8 1/2 g, 25, 42 lb T and girder r, 13 c, 50 mu. St. Louis cars. Pres. H. Marquand, V. Pres. D. D. Parmley, Sec. K. M. King, Treas. L. C. Harris, Gen. Man. & Pur. Agt. R. D. Apperson. 9 5

STEBUNVILLE, O.—Staubenville Traction Co. 2 1/2 m, 2 1/2 m s, 4-8 1/2 g, 30 lb tram r, 6 m c. Gen. Elec. system. Richmond L. & M. Works cars. Buckeye engines. Pres. G. W. McCook, V. Pres. T. Barclay, Sec. & Treas. T. Johnson, Gen. Man. J. F. Flood. Office, 921 Sixth Ave. 9 5

STILLWATER, MINN.—Stillwater Electric Ry. Co. 5 m, 4-8 1/2 g, 30 lb T and tram r, 8 m c. Gen. Elec. system. Pres. A. Curtiss, V. Pres. E. P. Motley, Sec. J. C. Nethaway, Treas. G. E. Waring. Office, Davenport, Ia. 8 4 s

STILLWATER, N. Y.—Stillwater & Mechanicville St. Ry. Co. 4.42 m, 4.35 m s, 4-8 1/2 g, 25-30 lb T and flat r, 6 c, 13 h. Jones cars. Pres. A. E. Powers, V. Pres. W. L. Denison, Sec. Treas. & Supt. H. O. Bailey. 4 5 s

STOCKTON, CAL.—Stockton Electric Ry. Co. Elec. 12 m, 3-6 g, 45 lb s. b. & T r, 22 c, of which 11 are m c and 11 t c. Westinghouse and T-H systems. Stockton cars. Pres. I. S. Bostwick, Sec. J. Pyfe, Treas. E. R. Hedges, Supt. G. E. Ladd. 8 3

STREATOR, ILL.—Streator Ry. Co. 6 1/2 m, 4-8 1/2 g, 52 lb T and girder r, 8 m c. Gen. Elec. system. American cars. Arlington & Sims engines. 208 H. P. Babcock & Wilcox boilers. Pres. P. F. Barr, V. Pres. D. Heenan, Sec. W. Reeves, Treas. J. C. Barlow, Gen. Man. C. C. Barr, Supt. & Pur. Agt. C. D. Hagerty, Elec'n. P. Peterson. 2 5 s

STROUDSBURG, PA.—Stroudsburg Passenger Ry. Co. Steam. 2 m, 1 1/2 m s, 4-8 1/2 g, 40, 50 lb T r, 5 c, 4 h, 2 motors. Pres. F. H. Smith, Gen. Man. E. Smith. 12 4

SUNBURY, PA.—Sunbury & Northumberland St. Ry. Co. Elec. 3 1/2 m, 5-2 g, 56 lb girder r, 4 m c. Westinghouse system. Stephenson cars. Harrisburg engines. Pres. D. Cooldge, Sec. & Treas. S. P. Wolverton, Gen. Man. C. M. Clement, Supt. M. Withington. 9 5

SYRACUSE, N. Y.—Syracuse St. R. R. Co. 28 1/2 m, 4-8 1/2 g, 90 lb girder r, 79 c, of which 49 are m c and 30 t c. Gen. Elec. system. Jones, Brill, and Stephenson cars. Cleveland Ship Bld. Co.'s engines. Pres. G. E. Herrick, V. Pres. & Elec'n. W. R. Kimball, Sec. W. P. Gannon, Treas. T. H. Conderman, Gen. Man. J. H. Moffitt, Ch. Engr. and Elec'n. H. S. Newton, Civil Engr. C. L. Allen, Ch. Engr. of Power Station N. B. Keillogg. Office now Bldg. Warren St. 9 5

Syracuse & East Side St. Ry. Co. 11 m, 4-8 1/2 g, 40, 90 lb T and girder r, 12 c, of which 10 are m c and 2 t c. Gen. Elec. system. American cars. Allis engines. Pres. & Gen. Man. C. D. Beebe, V. Pres. W. A. Holden, Sec. & Treas. G. B. Leonard, Supt. & Pur. Agt. R. M. Douglass, Ch. Engr. Thomas Mather, Elec'n. C. R. Osgood, Ch. Engr. of Power Station, C. Fowler. 9 5

Syracuse Consolidated St. Ry. Co. 31.75 m, of which 19.75 are horse and 12 elec, 4-8 g, 35 to 60 lb girder, tram and T r, 123 c, of which 63 are box, 21 open and 28 m c, 220 h. Gen. Elec. system. Receivers P. J. Mack and E. F. Rice, Pres. W. W. Hazzard, V. Pres. P. T. Brady, Sec. W. P. Gannon, Treas. W. R. Kimball, Gen. Man. E. F. Rice, Supt. J. H. Moffitt. Office, 3 Syracuse Sav. Bank Bldg. 1 5 s

TACOMA, WASH.—Tacoma Ry. & Motor Co. Elec. 48 m, of which 46 are elec and 2 cable, 3-6 g, 40-66 lb T and girder r, 31 c, of which 26 are m c and 5 g c. Gen. Elec. system, Pullman cars. Corliss, Frick and Stearns engines. 656 H. P. Babcock & Wilcox boilers. Receiver G. W. Bird, Pres. V. Pres. S. Z. Mitchell, Sec. P. H. Kershaw, Treas. T. B. Wallace, Supt. J. H. Davis. Office, A & 13th sts. 1 5 s 1 6

City Park Ry Co. 7 m, 6 1/2 m s, 3-6 g, 40 lb T r, 15 c, of which 13 are m c and 2 t c. Gen. Elec. system. Pullman and Brill cars. Pres. J. S. Mitchell, Sec. C. N. Huggins, Gen. Man. S. W. Hampton. 10 5

Tacoma Traction Co. (Includes Tacoma & Puyall

up R. R. Co. and Point Defiance, Tacoma & Edison Ry. Co.) 19 m, 3-6 g, 15 c. Westinghouse system. Pres. L. H. Hole, V. Pres. W. N. Coler, Jr., Gen. Man. J. P. Clark, Audr. H. L. Mundy.

TACONY, PA.—Holmesburg, Tacony & Frankford Electric R. R. Co. Supt. C. P. Holcomb. Supt. Office, State St., Tacony, Pa. 10 5

TAMPA, FLA.—Consumers' Elec. Lt. & St. R. R. Co. 20 m, 4-8 1/2 g, 45 lb T and girder r, 25 c, of which 20 are m c and 5 t c, 2 h. Gen. Elec. system. Brill and Brownell cars. Water power. 150 H. P. Babcock & Wilcox boilers. Pres. & Treas. E. S. Douglass, V. Pres. E. W. Chapin, Sec. & Supt. J. T. Douglass. Elec'n. W. B. Palmer, Ch. Engr. of Power Station W. A. Green. 9 5

TARENTUM, PA.—Tarentum Traction Pass. Ry. Co. 5 m 4 m s, 5-2 1/2 g, 68 lb girder r, 6 m c. Westinghouse system. Laclede cars. Taylor, Beck & Ball engines. Pres. C. G. Hussey, Supt. and Pur. Agt. J. B. Crawford, Sec. J. Kenney, Treas. F. R. Dravo. Ch. Engr. of Power Station Robt. Beatty. 9 5

TAUNTON, MASS.—Taunton St. Ry. Co. 14 m, 4-8 1/2 g, 40, 45, 60 lb T and girder r, 47 c, of which 23 are h c and 24 m c. Jones and Stephenson cars. McIntosh & Seymour engines. 368 H. P. Babcock & Wilcox boilers. Pres. J. N. Beckley, Sec. O. A. Barker, Treas. S. M. Thomas, Gen. Man. Geo. G. F. Serbel, Supt. C. Morse. 2 5 s

TERRE HAUTE, IND.—Terre Haute Electric Ry. Co. 22 m, 4-8 1/2 g, 60, 72 lb T r, 60 c, of which 35 are m c and 15 t c, 8 u and mu. Westinghouse system. Centropolis and Pullman cars. Westinghouse engines. Pres. Russell B. Harrison, V. Pres. J. G. McNutt, Sec. P. P. Thomas, Treas. M. F. Burke, Ch. Engr. F. L. Ray, Elec'n. A. Baisley. Office 100 N. Ninth st. 9 5

TEXARKANA, ARK.—Texarkana St. Ry. Co. Elec. 5 m, 4-g, 30 lb T r, 8 c, of which 6 are 4-wheel box & 2-4-wheel open, 38 mu. Pres. J. Deutchman V. Pres. B. Collins, Sec. F. W. Offenbacher, Treas. G. W. Fouke, Supt. B. M. Foreman. 1 4

TIFFIN, O.—Tiffin & Interurban Consolidated Electric Ry. Co. 24 m, of which 6 are horse and 18 elec, 4-8 1/2 g, 67-83 lb T and girder r, 24 c, of 18 are h c and 6 m c, 50 h. Westinghouse system. Laclede cars. Pres. & Gen. Man. R. M. Brown, V. Pres. A. Betts, Sec. N. W. Miller, Treas. T. T. Rosendale, Supt. J. Murphy. 5 4

The Electric Ry. & Pow. Co. 6 1/2 m, 6 1/2 m s, 4-8 1/2 g, 50, 80 lb T and girder r, 13 c, of which 8 are m c and 5 t c. Gen. Elec. system. Laclede cars. Pres. G. D. Loomis, V. Pres. C. J. Yingling, Sec. J. F. Bunn, Treas. B. W. Crobaugh, Supt. J. P. Myers. 12 4

TOLEDO, IA.—Tama & Toledo Electric Ry. & Light Co. 2 1/2 m, 2 1/2 m s, 4-8 1/2 g, 48 lb T r, 8 c, of which 2 are m c and 6 t c. Walker system. Laclede cars. Pres. & Pur. Agt. W. C. Smith, Sec. W. A. Smith, Treas. & Man. L. H. Ong, Elec'n. Wm. McDaniels, Ch. Engr. of Power Station J. L. Smith. 11 5

TOLEDO, OHIO.—Toledo Traction Co. (Successor to Toledo Consolidated St. Ry. Co. Elec. 65 m, 4-8 1/2 g, 48 1/2, 56-93 lb girder r, 160 c, of which 145 are m c and 15 t c. Gen. Elec. and Westinghouse systems. Brill and Pullman cars. Hooven, Owens & Rentscher engines. Pres. Albion E. Lang, V. Pres. Gen. Man. & Pur. Agt. W. S. Jewell, Sec. and Treas. Chas. L. Wight, Supt. A. M. Hinckley, Ch. Engr. W. D. Tyler, Elec'n. E. J. Bechtel. Office, Monroe and Water Sts. 11 5

Toledo Electric St. Ry. Co. 35 m, 4-8 1/2 g, 45-90 lb girder and T r, 80 m c. Gen. Elec. and Westinghouse systems. Brill cars. Cooper engines. Pres. D. Robison, Jr., V. Pres. L. S. Baumgardner, Sec. & Gen. Man. J. J. Robison, Treas. W. F. Robison, Div. Supts. C. L. Hulbut, E. F. Adler. Office, cor. Madison and Summit sts. 4 5 s

Toledo & Maumee Valley Ry Co. 13 m, 4-8 1/2 g, 56 lb T r, 14 c, of which 12 are m c and 2 t c. Gen. Elec. system. Barney & Smith and St. Louis cars. Pres. A. K. Detwiler, V. Pres. G. Metzger, Sec. G. K. Detwiler, Treas. W. B. Taylor, Gen. Man. C. A. Denman. 11 5

TOPEKA, KAN.—Topeka Ry. Co. 35 m of which 1 1/2 are horse and 33 1/2 elec, 20 m s, 4-8 1/2 g, 35, 52 lb T and girder r, 66 c, of which 36 are m c and 30 t c. Gen. Elec. system. Laclede, St. Louis and Stephenson cars. Allis engines. Pres. C. C. Baker, V. Pres. M. A. Low, Gen. Man. & Elec'n. J. M. Patten. General Managers' Office, 1112 Jackson St. 9 5

Topeka Belt Ry. Co. Steam. 4 m, 4-8 1/2 g, 45 lb T r, 11 c, 2 Baldwin motors. Pullman cars. Pres. Chas. S. Glead, Supt. E. H. Littlefield. Office, 110 W. 10th st. 6 3

West Side Circle Ry. Co. Steam. 6 1/2 m, 4-8 1/2 g, 40 lb T and girder r, 2 c, 3 Baldwin motors. Pres. C. S. Glead, Sec. & Treas. G. H. Nolte, Asst. Sec. Treas. & Pur. Agt. F. H. Poole. Office, 701 Jackson St. 10 5

TORONTO, ONT.—Toronto Ry. Co. 80 m, 40 m s, 4-10 1/2 g, 70 lb girder r, 300 c, of which 150 are m c and 150 t c. Canadian Gen. Elec. and Westinghouse systems. Own cars. Arlington & Sims engines. Pres. W. McKenzie, V. Pres. H. A. Everett, Sec. & Treas. J. C. Grace, Supt. James Gunn, Asst. Supt. E. McKenzie, Ch. Engr. of Power Station D. C. Lean. King st. west. 4 5 s

Metropolitan St. Ry. Co. 4 1/2 m, 4 1/2 m s, 4-10 1/2 g, 56 lb T r, 5 c, of which 3 are m c and 2 t c. T-H system. Jones and St. James cars. Goldie & McCulloch engines. Pres. C. D. Warren, Sec. & Treas. R. Jenkins, Gen. Man. J. W. Moyes. Deer Park P. O. Ontario. 1 5 s

Toronto & Scarboro Electric Ry. Lt. & Pow. Co. 3 1/2 m, 3 1/2 m s, 4-10 1/2 g, 56 lb T r, 5 c, of which 3 are m c and 2 t c. Gen. Elec. and Westinghouse systems. Patterson & Corbin cars. Rent power. V. Pres. J. Foy, Sec. Treas. & Gen. Man. A. W. Dingman, Ch. Engr. J. Galt. Office, 36 King St. 9 4

Toronto Suburban St. Ry. Co. Ltd. 7 m, 7 m s, 4-10 1/2 g, 56, 73 lb T and girder r, 5 m c. Gen. Elec. and Westinghouse systems. Ball engines. Pres. R. W. Smith, V. Pres. A. W. Atwater, Sec. Treas. Gen. Man. & Ch. Engr. R. H. Fraser, Elec'n. R. MacMaugh. Office Toronto Junction. 3 5 s

TRAVERSE CITY, MICH.—Traverse City Peninsula & Old Mission Electric R. R. Co. Sec. N. P. Crotser. 1 5 s

TRENTON, N. J.—Trenton Pass. Ry. Co. Consolidated. (Controlled by Trenton Traction Co.) 37 m,

60 90 lb girder & T r, 71 c, of which 51 are m c and 20 t c. Gen. Elec. and Short systems. St. Louis and Brill cars. Watts-Campbell engines. Pres., Gen. Man. & Pur. Agt. H. C. Moore, V. Pres. T. C. Barr, Sec. & Treas. J. L. Kuser, Supt. P. E. Hurley. Elec'n. Ch. Engr. & Ch. Engr. of Power Station J. Hyde, Jr., Office, cor. Greenwood and S. Clinton Aves. 9 5

TROY, N. Y.—Troy City Ry. Co. (Lessee of Troy & Lansingburgh and Waterford & Cohoes (Irys.) 30 m, of which 1 are horse and 29 elec. 20 m s, 4-8 1/2 g, 63-93 lb s. b. and girder r, 158 c, of which 50 are h c and 108 m c. Gen. Elec. system. Jones cars. Greene-Corliss engines. 396 H. P. Babcock & Wilcox boilers. Pres. & Gen. Man. C. Clemlinshaw, 1st V. Pres. A. N. Brady, 2d V. Pres. J. B. Carr, Sec. & Treas. J. J. Hagen, Supt. C. H. Smith. Office, 361 River St. 3 5 s

TUSCALOOSA, ALA.—Tuscaloosa St. Ry. Co. (Owned by Tuscaloosa & Castle Hill Real Estate & Mfg. Co.) 4 m, 4-8 1/2 g, 20, 25 lb T r, 9 box c, 8 mu. Stephenson cars. Pres. Jas. H. Fluts, Sec. & Treas. & Gen. Man. S. F. Alston. Office, Main st. 1 4

Tuscaloosa Belt Ry. Co. 3.5 m, 3-5 ms 4-8 1/2 g, 35 lb. T r. 3 passenger cars, 5 freight cars. St. Louis cars Baldwin engines. Pres. W. C. Jenkinson, Sec. & Treas. J. L. Wallace, Gen. Man. J. W. Wovefolk, Supt. J. T. Cochrane. 9 5

TYLER, TEX.—Tyler St. Ry. Co. 3 1/2 m, 3 1/2 m s, 4-8 1/2 g, 20, 40 lb T and flat r, 4 c, 9 mu. Pres. Sec. Treas. & Gen. Man. W. C. Scott, V. Pres. J. P. Douglas. 9 4

U

UNION SPRINGS ALA.—Union Springs St. Car Co. 2 m, 5-1 g, 20 lb T r, 4 flat c for freight, 1 or 2 for pass, 4 mu. Pres. Wm. Stakley, Sec. & Treas. T. H. Mabson, Jr., Supt. A. D. Fleider. 12 2

UNIONTOWN, PA.—Uniontown St. Ry. Co. 3 1/2 m, 5-2 1/2 g, 68 lb girder and T r, 6 c, of which 5 are m c and 1 t c. Gen. Elec. system. Brill cars. Buckeye engines. Pres. W. C. McCormick, Sec. & Treas. R. F. Hopwood, Gen. Man. & Pur. Agt. G. A. McCormick, Supt. & Ch. Engr. R. A. Smith. 8 4 s

UTICA, N. Y.—Onelda St. R. R. Co. 1.57 m, 1 5 m s, 4-8 1/2 g, 35 lb c b r, 2 c, 8 h. Pres. & Gen. Man. Henry Ney, V. Pres. Sec. & Supt. F. J. Cronk, Treas. W. C. Wilcox. Office, 69 Genesee st. 7 4 s

Deerfield & Utica. (See Deerfield.)

Utica & Mohawk R. R. Co. 3.08 m, 2.75 m s, 4-8 1/2 g, 40, 45 lb T r, 14 c, of which 8 are m c and 6 t c. Gen. Elec. system. Stephenson cars. Pres. & Gen. Man. Jas. F. Mann, V. Pres. R. W. Sherman, Sec. Wm. E. Lewis, Treas. Geo. D. Dimon, Supt. F. L. Everts. Office Mann Bldg. 7 4 s

Utica Belt Line St. R. R. Co. Elec. (Operates Utica, Clinton & Binghamton St. R. R.) 23 m, 18 m s, 4-8 1/2 g, 48, 85 lb T, and girder r, 54 c, of which 32 are m c and 22 t c. Gen. Elec. system. Gilbert and Jones cars. Pres. & Gen. Man. J. W. Boyle, V. Pres. J. T. Gardner, Sec. E. Bushinger, Treas. C. W. Mather, Supt. R. G. Young. 4 5 s

V

VANCOUVER, B. C.—Vancouver Electric Ry. & Light Co. Ltd. 7 1/2 m, 4-8 1/2 g, 40 lb T r, 10 c, of which 9 are m c and 1 t c. T-H & Westinghouse systems Pres. J. Oppenheimer, V. Pres. T. Dunn, Sec. H. T. Cepuley, Treas. & Business Manager, W. E. Brown Supt. C. F. Hutchings. Office, 523 Hastings st. W. 10 2

VANCOUVER, WASH.—Columbia Land & Improvement Co. 3 m, 3-6 g, 30 lb T r, 2 c, 7h. Pres. J. Gibbon, V. Pres. & Gen. Man. L. M. Hiddon, Sec. C. Brown, Treas. 1st Nat. Bank, P. O. Box 44. 4 5 s

VERNON, IND.—North Vernon & Vernon St. R. R. Co. 2 m, 5-2 g, 35 lb girder r, 3 c, 5 h, 2 mu. Laclede cars. Pres. & Gen. Man. S. H. Grinstead, V. Pres. J. Forbel, Jr., Sec. & Pur. Agt. E. L. Wagner, Treas. J. C. Cope. 9 4

VICKSBURG, MISS.—Vicksburg Electric Transit & Light Co. Sec. C. K. McFarland. 9 5

VICTORIA, B. C.—Victoria Electric Ry. & Lighting Co. Ltd., 15 m, 1 1/2 m s, 4-8 1/2 g, 40 lb girder and T r, 18 m c. Gen. Elec. and Westinghouse systems. Brill, Pullman and St. Louis cars. Albion Iron Works engines. Pres. C. T. Dupont, V. Pres. J. Jones, Sec. T. S. Gore, Supt. & Pur. Agt. F. W. McCrady, Ch. Engr. R. Menaugh, Elec'n. D. Devereil. Office Store st. 9 5

VINCENNES, IND.—Vincennes Citizens' St. Ry. Co. 5 m, 5 m s, 4-8 1/2 g, 40, 55 lb T and girder r, 16 c, of which 6 are m c and 10 t c, 2 mu. Westinghouse system. Brownell, Calumet and Ellis cars. Westinghouse engines. Sec. & Gen. Man. E. F. Tindolph. Office, 29 Fairground ave. 9 5

W

WACO, TEX.—Citizens' Ry. Co. 25 m, 4-8 1/2 g, 30, 40 & 45 lb girder & T r, 35 c, of which 21 are m c and 14 t c. Gen. Elec. and Westinghouse systems. St. Louis cars. Hamilton engines. 240 H. P. Babcock & Wilcox boilers. Pres. & Gen. Man. H. C. Scott, Sec. & Supt. J. L. Griffith, Office, 4th & Washington sts. 9 5

WAKEFIELD, MASS.—Wakefield & Stoneham St. Ry. Co., 16 1/2 m, 16 m s, 4-8 1/2 g, 48 lb T and girder r, 30 m c, 1 h, Gen. Elec. and Westinghouse systems. Jones and Newburyport cars. McIntosh & Seymour engines. Pres. & Gen. Man. C. F. Woodward, Sec. E. M. Southworth, Treas. J. F. Shaw, Pur. Agt. E. P. Shaw, Ch. Engr. J. A. Bancroft, Elec'n. W. L. Ransom, Ch. Engr. of Power Station, R. J. Patterson. Office, 117 Abnlon St. 9 5

WALLA WALLA, WASH.—Walla Walla St. Ry. & Investment Co. 4 m, 3-6 g, 30 & 35 lb T r, 6 4-wheel box c, 24 h. Pres. W. P. Winans, V. Pres. Miles C. Moore, Sec. J. W. Langdon, Treas. Supt. & Man. J. M. Hill. 1 4

WARREN, O.—Trumbull Electric R. R. Co. m 7 m s, 4-8 1/2 g, 45, 66, 70 lb girder r, 8 m c. Gen. Elec. system. Brill and Ellis cars. Phenix Iron Works engines. Pres. H. C. Christy, V. Pres. A. R. Sillman, Sec. & Treas. E. D. Kennedy, Supt. & Elec'n. J. H. Donnelly, & Pur. Agt. J. W. Packard, Ch. Engrs & Ch. Engrs. of Power Station J. and E. Hayward. 12 4

WARREN, PA.—Warren St. Ry. Co. 3 1/2 m, 4-8 1/2 g, 45 lb T and girder r, 6 c, of which 4 are m c and 2 t c. Westinghouse system. Brill and New Castle cars. Rent power. Pres. T. B. Clawson, Sec. J. Roy, Treas. Gen. Man. & Pur. Agt. D. H. Siggins, Elec'n. W. Jeffries. Office 342 Water st. 9 5

WASHINGTON, D. C.—The Belt Ry. Co. 17 m, 4-8 1/2 g, 80 lb girder r, 81 c, 382 h. Pullman cars. Pres. D. M. Newbold, V. Pres. & Gen. Man. W. K. Schoepf, Sec. & Treas. H. K. Gray, Supt. W. Clements. Office, McGill Bldg. 12 4 a e

Anacostia & Potomac River R. R. Co. 13.4 m, 4-8 1/2 g, 65 lb girder r, 44 c, 150 h. Jones cars. Pres. Gen. Man. & Supt. H. A. Griswold, Sec. & Treas. J. B. Pletcher. Office, Anacostia, D. C. 9 5

Brightwood Ry. Co. 12 m, 5.5 m s, 4-8 1/2 g, 50, 70 lb T and girder r, 24 c, of which 14 are m c, and 10 t c Westinghouse system. Laclede cars. Clark and Stearns engines. Pres. H. S. Cummings, V. Pres. E. O. McNair, Sec. Victor B. Deyber, Treas. Gen. Man. & Pur. Agt. C. P. Williams, Supt. Thomas O'Brien, Elecn. A. M. Hamilton, Ch. Engr. of Power Station P. A. Keyes. 1 5 s

Columbia R. R. Co. Cable. 6 m, 4-8 1/2 g, 86 lb girder r, 84 c, of which 40 are g c and 44 t c. Stephenson cars. Allis engines. Pres. & Pur. Agt. R. F. Baker, V. Pres. E. G. Davis, Sec. & Treas. J. B. Adams, Supt. Wm. C. Boteler, Ch. Engr. of Power Station R. J. Allen. Office, 15th and H Sts., N. E. 9 5

Eckington & Soldiers' Home Ry. Co. 17 m, of which 11.5 are horse and 5.5 elec, 4-8 1/2 g, 80, 95 lb girder r, 88 c, of which 54 are h c, 16 m c and 14 t c. 250 h. Gen. Elec. and Westinghouse systems. Brill, Laclede, Robinson and Stephenson cars. Armlington & Sims and Ball engines. 136 H. P. Babcock & Wilcox boilers. Pres. D. M. Newbold, V. Pres. Gen. Man. & Pur. Agt. W. K. Schoepf, Sec. & Treas. H. K. Gray, Supt. & Elecn. R. L. Todd. Office, McGill Bldg. 908-914 G St., N. W. 1 5 s

Georgetown & Tenalietown Ry. Co. 9.4 m 4.7 m s 4-8 1/2 g, 45, 80 lb. groove and Tr, 14 m c. Gen. Elec. and Westinghouse systems. Brill, Gilbert, Jones and Stephenson cars. Erick and Harrisburg engines. Pres. O. T. Crosby, V. Pres. C. A. Leib, Sec. Treas. & Pur. Agt. H. T. Purdy, Elecn. D. M. Anderson, Ch. Engr. of Power Station J. H. Meyers. Office, Power House, 32d St. 9 5

Glen Echo R. R. Co. 6 1/2 m, 3 m s, 4-8 1/2 g, 40 lb T r 8 c, of which 6 are m c and 2 t c. Westinghouse system. Brill cars. Westinghouse engines. 312 H. P. Babcock & Wilcox boilers. Pres. Edwin Baltzley, V. Pres. F. W. Pratt, Sec. Edward Baltzley, Treas. J. C. Pratt. Office, Room 7 Sun Bldg. 1 4

Metropolitan R. R. Co. 20 m, of which 8.25 are horse and 7.75 are elec. 4-8 1/2 g, 62, 83 lb grooved r, 195 c, of which 120 are h c, 25 are m c, and 50 are t c, 550 h. Conduit system. American and Brill cars. Providence engines. Pres. Gen. Man. & Pur. Agt. S. L. Phillips, V. Pres. A. A. Wilson, Sec. & Treas. Wm. J. Wilson, Supt. W. E. Lowry, Ch. Engr. A. N. Connett, Elecn. C. S. Clark, Ch. Engr. of Power Station M. Graham. Office, 2411 P St., N. W. 9 5

Rock Creek Ry. Co. of the District of Columbia. 15 m, 7 1/2 m s, 4-8 1/2 g, 50, 62 lb T and groove r, 28 c, 22 are m c, and 6 t c. Love conduit and Gen. Elec. systems. Lamokin and Stephenson cars. Ball & Wood, McIntosh & Seymour and New York Safety engines. 375 H. P. Babcock & Wilcox boilers. Pres. F. G. Newlands, V. Pres. E. J. Stellwagen, Sec. H. S. Nyman, Treas. T. M. Gale, Supt. H. Claude, Elecn. R. M. Palmer, Ch. Engr. of Power Station M. D. Hogan. Office Chevy Chase, Md. 4 5 s

Washington & Arlington Ry. Co. Elec. 3 m, 4-8 1/2 g, 60 lb T r, 4 m c. Edison system. Brill cars. Phoenix engines. Pres. D. L. King, Sec. & Treas. W. Hazlett, Gen. Man. & Supt. W. Chapman. Office 95-96 Corcoran building. 1 3

Washington & Georgetown R.R. Co. Cable. 22 m 4-8 1/2 g, 80 lb English groove girder r, 400 c, of which 94 are g c and 306 t c, 30 h. Allis engines. 2,000 H. P. Babcock & Wilcox boilers. Pres. G. T. Dunlop, V. Pres. C. C. Glover, Sec. & Treas. C. M. Koonce, Gen. Supt. D. S. Carroll, Ch. Engr. of Power Station C. Hoshall. Offices, Central Power Station, 14th & E sts N. W. 9 5 k e

WASHINGTON, IND.—Washington St. Ry. Co. 3 m, 3 m s, 4-8 1/2 g, 35 lb r, 6 c 25 h. Pres. & Gen. Man. L. C. Fritch, V. Pres. W. R. Gardner, Sec. C. G. Gardner, Supt. E. H. Fritch. 9 5

WASHINGTON, PA.—Washington Electric St. Ry. Co., successor to Washington & Tylerdale St. Ry. Co. 11.5 m, 5-2 1/2 g, 10 m c. Gen. Elec. & Westinghouse systems. Brill and New Castle cars. Pres. F. J. Torrance, Sec. D. Witt Dilworth, Treas. A. Kennedy. 10 5

WATERBURY, CONN.—Waterbury Traction Co. 11m, 4-8 1/2 g, 60, 70 lb T r, 44 c, of which 36 are m c and 8 t c. Sperry system. Brill, Lewis & Fowler, Newburyport and Stephenson cars. Dixon engines. Pres. D. S. Plume, Sec. A. M. Young, Treas. J. R. Smith, Gen. Man. & Pur. Agt. J. E. Lewell, Elecn. W. T. Oviatt, Ch. Engr. of Power Station, J. E. Kilburn. 9 5

WATERLOO, IA.—Waterloo St. Ry. Co. 2 m, 3 g, 22, 35 lb T r, 3 c, 8 h. Pres. J. E. Sedgwick, V. Pres G. A. Whitney, Sec. & Treas. A. A. Hungertford Office, 183 1/2 Bridge St. 9 4

WATERLOO, N. Y.—See Seneca Falls, N. Y.

WATERLOO, ONT.—Berlin & Waterloo St. Ry. Co. 2 1/2 m, 4-8 1/2 g, 25, 30 lb flat and T r, 8 c, of which 3 are m c and 5 t c. Gen. Elec. system. Wheelock engines. Pres. & Treas. Thos. M. Burt, Sec. Alex. Millar, Asst. Man. T. E. McLean. Office, Waterloo. 9 5

WATERTOWN, N. Y.—Watertown & Brownville St. R. R. Co. 9 m, 8 m s, 4-8 1/2 g, 62 lb girder and T r, 24 c, of which 13 are m c, and 11 t c. Gen. Elec. and Steel Motor systems. Brill and Stephenson cars. Water power. Pres. B. B. Taggart, V. Pres. H. F. Inglehart, Sec. & Treas. C. C. Inglehart, Gen. Man. & Supt. S. R. Smith, Ch. Engr. & Elecn. L. E. Howard. Office, 172 Main St. 4 5 s

WATERTOWN, S. DAK.—Watertown & Lake Kampeska Ry. Co. Dummy. 6 1/2 m, 4-8 1/2 g, 30 lb T r 1 c. Pullman car. Baldwin engine. Ch. Engr. F. L. Burdeck. Office, Kemp ave & Oak St. 4 4

WATERVILLE, ME.—Waterville & Fairfield Ry. & L. Co. 5 m, 4-36 m s, 4-8 1/2 g, 35 lb T r, 8 c, of which 3 are m c and 5 t c. Westinghouse system. Pres. I. C. Libby, Gen. Man. A. F. Gerald, Sec. H. M. Heath, Treas. P. A. Libby, Supt. C. Maxfield. Office Fairfield. 11 4 s e e

WAVERLY, N. Y.—Waverly, Sayre & Athens Ry. Co. 6 m. 6 c. Pres. A. N. Broadhead, V. Pres. F. M. Stevens, Sec. A. W. Wade, Treas. F. K. Harris.

WAXAHACHIE, TEX.—Waxahachie St. Ry Co

2 m, 4-8 1/2 g, 2 1/2 lb T r, 3 c, 16 h. Pres. T. A. Ferris, V. Pres. W. F. Lewis, Sec., Treas. & Gen. Man. O. Goodwin. 9 4

Lake Park St. R. R. Co. 2 m, 4-8 1/2 g, 20 lb T r, 4 c 14 m. Pres. & Gen. Man. J. F. Strickland, V. Pres. W. F. Lewis, Sec. J. F. Phillips, Treas. W. G. Williams, Supt. W. J. Stevenson. 8 3

WEATHERFORD, TEX.—Weatherford City & Suburban R. R. Co. 3 1/2 m, 2 1/2 m s, 4-8 1/2 g, 16 & 20 lb T r 6 c, 17 m. Pres. G. P. Levy, Supt. G. B. Willbanks. 1 4

WEBB CITY, MO.—Southwest Missouri Electric Ry. Co. 15 m, 4-8 1/2 g, 48, 75 lb T and girder r, 21 c of which 16 are m c and 5 t c. Gen. Elec. and Westinghouse systems. Laclede cars. Cooper engines. Pres. Gen. Man. & Pur. Agt. A. H. Rogers, V. Pres. E. Z. Wallower, Sec. & Treas. W. M. Donaldson, Ch. Engr. E. J. Pratt. Offices, Webb City and Harrisburg, Pa. 9 5

Joplin & Galena Electric Ry. Co. (See Joplin, Mo.)

WEST BAY CITY, MICH.—(See Bay City, Mich.)

WEST CHESTER, PA.—West Chester St. Ry. Co. Elec. 7 m, 5-2 1/2 g, 45, 60 lb. girder and flat r, 9 c, of which 5 are m c and 4 t c. Gen. Elec. and Westinghouse systems. Brill cars. Pres. W. M. Hayes, Sec. W. S. Harris, Treas. F. W. Wollerton, Gen. Man. & Pur. Agt. J. W. Andrews, Elecn. J. Eaby, Ch. Engr. of Power Station J. Pyle. 9 5

WESTERLY, R. I.—Pawcatuck Valley St. Ry. Co. 6 m, 6 m s, 4-8 1/2 g, 50 lb T r, 7 c, of which 6 are m c and 1 t c. Gen. Elec. system. Newburyport cars. McIntosh & Seymour engines. Pres. W. Huxsey, Sec. & Treas. S. H. Cross, Gen. Man. E. P. Shaw, Jr., Supt. & Elecn. E. K. Day. 9 4

WESTFIELD, MASS.—Woronoco St. Ry. Co. (Includes Highland St. Ry.) 3.7 m, 4-8 1/2 g, 52 & 60 lb T r, 13 c, 50 h. Jones cars. Pres. C. N. Yeamans, Sec. S. B. Campbell, Treas. O. B. Parks, Gen. Man. Supt. & Pur. Agt. J. Finnell. 9 5

WEST NEWTON, MASS.—Newton St. Ry. Co. 9.03 m, 8 1/2 m s, 4-8 1/2 g, 45, 56 lb T r, 27 c, of which 25 are m c and 2 t c. Gen. Elec. system. Jones and Newburyport cars. Armlington & Sims engines. contract for power. Pres. Winthrop Coffin, V. Pres. E. Stearns, Sec. J. C. Lane, Treas. C. W. Smith, Supt. F. G. L. Henderson, Treas. Office 53 Tremont St., Boston. 9 5

WESTPORT, CONN.—Westport & Saugatuck Horse R.R. Co. 1 1/2 m, 4-8 g, 40 lb r, 4 c, 8 h. Pres. A. S. Jurlbutt, V. Pres. C. H. Taylor, Sec. and Treas. B. L. Woodworth, Gen. Man. & Supt. H. E. Jackson. 2 5 s

WEST SUPERIOR, WIS.—Superior Rapid Transit Ry. Co. 25 1/2 m, 13 m s, 3-6g, 35-50 lb T r, 37 c, of which 2 are h c, 25 m c and 10 t c. Gen. Elec. system. American, Laclede and St. Louis cars. Allis engines. Pres. & Gen. Man. S. T. Norwell, Sec. & Treas. G. Chadwick, Ch. Engr. of Power Station E. D. Gay. 5 5 s

WHEELING, W. VA.—Wheeling Ry. Co. 17 m, 15 m s, 5-2 g, 85 lb girder r, 44 m c. Gen. Elec. system. Barney & Smith, Brill and St. Louis cars. Ball engines. Pres. W. W. Hazzard, Sec. & Treas. W. A. Shurley, Gen. Man. & Pur. Agt. W. S. Wright, Supt. M. Loftus. 11 5

Wheeling & Elm Grove R. R. Dummy. 8 1/2 m, 4-8 1/2 g, 60 lb T r, 23 c, of which 20 are pass, c 2 freight c and 1 baggage c, 4 Baldwin motors, 1 h. Pres. A. Reymann, Sec. & Treas. J. Roemer, Gen. Man. H. E. Welsgerber. Office, 16th St. 6 3

WHITMAN, MASS.—(See Brockton, Mass.)

WICHITA, KAN.—Wichita Electric Ry. & Lt. Co. 25 m, 4-8 1/2 g, 38, 45 lb T and girder r, 68 c, of which 47 are m c and 21 t c. Gen. Elec. system. Brownell and St. Louis cars. Hamilton Corliss engines. Pres. A. T. Batchelder, V. Pres. A. Faulkner, Treas. G. A. Litchfield, Supt. & Pur. Agt. F. W. Sweet, Elecn. S. Mountain, Ch. Engr. J. M. Snyder, Ch. Engr. of Power Station R. W. Marquis. Office, 100 W. Douglas Ave. 9 5

WILKENBARRE, PA.—Wilkesbarre & Wyoming Valley Traction Co. (Owns and operates all lines in the city). 55.52 m, 46.82 m s, 4-8 1/2 g, 40-70 lb T and girder r, 103 c. Baxter, Gen. Elec., Short and Westinghouse systems. Brill and St. Louis cars. Harrisburg engines. Pres. B. F. Myers, Sec. W. G. Eno, Treas. & Gen. Man. J. Graham, Supts. (East Side division) J. Clifford, (West Side division) J. C. Meixell, Eec. Engr. J. Fagan. 1 5 s j e

WILLIAMSPORT, PA.—Williamsport Pass. Ry. Co. 8 m, 8 m s, 4-8 1/2 g, 56, 90 lb girder r, 12 m c. Westinghouse system. Lamokin cars. Westinghouse engines. V. Pres. H. C. Parsons, Sec. J. F. Starr, Treas. J. Lawshe, Gen. Man. E. H. Davis. Office, 760 W. 4th st. 1 5 s

WILLIAMSVILLE, N. Y.—Buffalo & Williams ville Electric Ry. Co. 4 1/2 m, 4 1/2 m s, 4-8 1/2 g, 50, 66 lb T and girder r, 6 c, of which 4 are m c and 2 t c. Gen. Elec. system. Laclede cars. Noye engines. Pres. & Gen. Man. J. Blocher, V. Pres. E. C. Longnecker, Sec. A. L. Rinewalt, Treas. & Supt. L. L. Grove, Ch. Engr. Elecn. & Ch. Engr. of Power Station C. Summers. 4 5 s

WILMINGTON, DEL.—Wilmington City Ry. Co. (Owns and operates Front & Union St. Pass. Ry. Co.) 22 m, 5-2 g, 58, 90 lb T and girder r, 61 m c. Gen. Elec. and Westinghouse systems. Pres. P. Lea, V. Pres. W. Sausbury, Treas. F. T. Webb. Office, Delaware ave. & Dupont st. 4 5 s h e

Gordon Heights Ry. Co. 2 m, 5-2 g, 68 lb T r, 3 m c. Westinghouse system. St. Louis cars. Pres. G. A. Townsend, Treas. H. Emmons, Gen. Man. & Pur. Agt. W. S. Heger. Office, 9 Market St. 4 5 s

WILMINGTON, N. C.—The Wilmington St. Ry. Co. 6 m, of which 1 1/2 m is steam and 4 1/2 elec, 5 m s, 4-8 1/2 g, 45, 60 lb T and girder r, 16 c of which 12 are m c and 4 t c. Gen. Elec. system. Lewis & Fowler and Stephenson cars. Ball engines. Pres. H. A. Whiting, V. Pres. B. F. O'Connor, Sec. & Treas. J. W. Martens, Gen. Man. M. F. Heiskell, Supt. H. Hues. Office 29 Broadway, New York. 2 5 s

WINDSOR, ONT.—Windsor Electric St. Ry. Co. 1 1/2 m, 3-6 g, 25 lb T r, 1 motor, 4 c, 9 h. T-H system. Steam power. Pres. W. M. Boomer, Sec. & Treas. M. A. S. Boomer. Office, cor. Mercer & Sandwich sts W. Sandwich, Windsor & Amherstburg Ry. Co. Elec 10 m, 4-8 1/2 g, 35-56 lb girder and T r, 14 c, of which

10 are m c and 4 t c. Westinghouse system. Brill, Laclede, Ottawa and St. Louis cars. Armstrong and Brown engines. Pres. J. Coventry, V. Pres. G. M. Hendrie, Sec. J. Armstrong, Treas. W. I. Pulling, Supt. R. R. Canfield, Elecn. E. Schultz, Ch. Engr. of Power Station I. Lloyd. 9 5

WINFIELD, KAN.—Union St. Ry. Co. 5 m, 4 g, 16-35 lb T and Johnson r, 7 c, 20 mu. Owner T. J. Eaton. 1 5 s

WINNIPEG, MAN.—The Winnipeg Electric st. Ry. Co. 20 m, 14 m s, 4-8 1/2 g, 56 lb T r, 36 c, of which 23 are m c and 13 t c. Gen. Elec. and Westinghouse systems. Pres. J. Ross, V. Pres. W. Whyte, Sec. F. M. Morse, Treas. W. McKenzie, Gen. Man. & Pur. Agt. G. H. Campbell, Ch. Engr. W. Alexander, Elecn. H. J. Somerset. 9 5

WINONA, MINN.—Winona City Ry. Co. (Owned by Winona General Electric Co.) Elec. 4 m, 4-8 1/2 g, 40 lb T r, 8 m c. Gen. Elec. system. Northern cars. Ide and Ball engines. Receiver S. B. Livermore, Pur. Agt. J. Gav, Elecn. J. Bradbury, Ch. Engr. of Power Station R. Peton. 9 5

WINSTON, N. C.—Winston-Salem Ry. & Electric Co. (Operated and leased by Twin City Construction Co.) 8.2 m, 5 m s, 4-8 1/2 g, 45 lb girder r, 12 c, of which 9 are m c and 3 t c. Gen. Elec. system. Brill cars. Ball engines. Pres. J. H. McClement, V. Pres. F. J. Sprague, Sec. & Treas. R. G. Day, Asst. Sec. & Treas. W. H. Barham, Supt. Ch. Engr. & Elecn. F. W. McClement, Ch. Engr. of Power Station J. Tysinger. 1 5 s

WISSAHICKON, PA.—Wissahickon Electric Pass. Ry. Co. 3 1/2 m, 4-8 1/2 g, 90 lb girder r, 8 m c. Westinghouse system. St. Louis and Stephenson cars. Watts Campbell engines. Pres. P. P. Liebert, V. Pres. W. Flanagan Sec. & Treas. J. Flanagan, Supt. Louis Mountney. 5

WOODLAND, CAL.—Woodland St. Ry. Co. 1 m, 3 g, 30 lb T r, 3 c, 4 h. Pres. T. Ross, V. Pres. G. D. Fiske, Sec. L. W. Hilliker, Treas. T. Armstrong, Supt. M. McCutcheon. 4 5 s

WOONSOCKET, R. I.—Woonsocket St. Ry. Co. 6.65 m, of which 2.65 are horse and 4 elec, 6.35 m s, 4-8 1/2 g, 35 50 lb T r, 17 c, of which 2 are h c, m c and 9 t c, 20 h. Gen. Elec. system. Pres. J. P. Ray, Sec. W. Kent, Treas. W. Whittlesey, Gen. Man. E. K. Ray, Supt. H. M. Young. Office, 6 S. Main St. 7 4 s

WORCESTER, MASS.—Worcester Consolidated St. Ry. Co. (Controlled by Worcester Traction Co.) 31 m, 25 m s, 4-8 1/2 g, 90 lb girder r 99 c, of which 93 are m c and 6 t c, 5 h. Gen. Elec. and Westinghouse systems. Laclede, Jones and Stephenson cars. Lake Erie engines. Pres. Chas. B. Pratt, Sec. & Treas. A. H. Stone, Supt. & Pur. Agt. J. N. Akarman, Ch. Engr. & Ch. Engr. of Power Station, W. W. McKee, Elecn. T. Adams. Office, 15 Market st. 9 5

North End St. Ry. Co. Elec. 5 1/2 m, 4-8 1/2 g, 45, 55, 65 lb girder r, 12 m c. Westinghouse system. Jones, Lewis & Fowler and Stephenson cars. Pres. & Gen. Man. W. P. Sears, V. Pres. G. A. Barnard, Treas. G. A. Smith, Supt. C. L. West, Elecn. W. S. Townsend. 9 4 d e

Worcester & Suburban St. Ry. Co. (Includes Worcester & Millbury and Worcester, Leicester & Spencer St. Ry. Co.'s) 22.02 m, 20.9 m s, 4-8 1/2 g, 48, 70 lb T and girder r, 45 c, of which 31 are m c and 14 t c. Detroit and Gen. Elec. systems. Pres. E. L. Watson, Sec. & Treas. T. T. Robinson, Supt. J. B. Gorman. b e j e

Worcester & Shrewsbury St. Ry. Co. 3,300 ft. 3,300 ft. s, 4-8 1/2 g, 58 1/2 lb T r, 2 m c. Edison system. Lewis & Fowler cars. Pres. & Treas. H. H. Bigelow, Supt. & Pur. Agt. I. E. Bigelow. Office 19 Foster st. 2 4

Worcester Traction Co. (Owns all the stock of the Worcester Consolidated St. Ry. Co.) Pres. C. B. Pratt, Sec. T. C. Barr, Treas. A. H. Stone. 4 5 s

WYMORE, NEB.—Wymore & Blue Springs Transit Co. 3 1/2 m, 3 1/2 m s, 3-6 g, 22 lb T r, 4 wheel box c, 6 h. Pres. A. Stewart, V. Pres. & Ch. Engr. H. C. Van Buskirk, Sec. Treas. Gen. Man. & Pur. Agt. S. T. G. Moore, Supt. S. Murphy. 12 4

Y

YARMOUTH, N. S.—Yarmouth St. Ry. Co. 2 m, 4 g, 45 lb T r, 5 c, of which 3 are m c and 2 t c. Gen. Elec. system. Patterson & Corbin cars. Pres. R. Caie, V. Pres. W. L. Lovitt, Sec. Treas. & Gen. Man. B. B. Law, Supt. G. E. Perry, Elecn. Ch. Engr. & Ch. Engr. of Power Station Judson Sklener. 9 5

YONKERS, N. Y.—The Yonkers R. R. Co. 8.85 m, 4-8 1/2 g, 42-90 lb T, tram and girder r, 32 m c. Gen. Elec. system. Brill and Stephenson cars. Ball & Wood engines. Pres. A. L. Johnson, Sec. & Treas. J. M. Edwards, Gen. Man. J. J. Coleman, Supt. R. Stetson. Office, Foot of Main St. 9 5

YORK, PA.—York St. Ry. Co. 11 m, 9 1/2 m s, 4-8 1/2 g, 45, 70 lb T and girder r, 32 c, of which 36 are m c and 6 t c, 1 h. Gen. Elec. and Westinghouse systems. Brill, Jackson & Sharp and Lamokin cars. Russell-Corliss engines. Pres. W. H. Lanius, V. Pres. D. K. Trimmer, Sec. G. S. Schmidt, Treas. C. H. Mayer, Supt. J. H. Mellinger, Elecn. F. D. Connelly. Office, Room 4 Krupp Bldg., Centre Sq. 9 5

YOUNGSTOWN, O.—Youngstown St. Ry. Co. 16 1/2 m, 15 m s, 4-8 1/2 g, 48, 70 lb girder r, 32 m c. Gen. Elec. and Sperry systems. New Castle and Pullman cars. Allis and Hamilton-Corliss engines. Pres. James Parmelee, Sec. J. E. McVey, Treas. Gen. Man. & Pur. Agt. A. A. Anderson, Supt. Ch. Engr. & Elecn. S. F. Hazlerigg. Office W. Federal St. 4 5 s

Youngstown, Park & Falls St. Ry. Co. 1 1/2 m, 4-8 1/2 g, 45 lb T r. Pres. J. I. Williams Sec. H. G. Hamilton. 1 5 s

The Mahoning Valley Ry. Co. 8 m, 7.5 m s, 4-8 1/2 g, 67 & 68 lb T and girder r, 10 m c. Gen. Elec. system. Barney & Smith and Pullman cars. Pres. C. T. Clapp (Warren, O.) V. Pres. R. G. Sykes (Niles, O.) Sec. J. E. McVey, (Youngstown, O.) Treas. Gen. Man. & Pur. Agt. A. A. Anderson, Supt. S. F. Hazlerigg. 11 5 s

ZANESVILLE, O.—Zanesville Electric St. Ry. Co. 10 m, 8 m s, 5-2 1/2 g, 48 1/2, 50 lb T and girder r, 21 c, of which 11 are m c and 10 t c. Gen. Elec. system. Lamokin cars. Pres. A. L. Conger, V. Pres. F. M. Atterholts, Sec. & Treas. K. B. Conger. Supt. A. H. Johnson, Elecn. C. E. Kellogg. 1 5 s

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A SUGGESTIVE PICTURE.

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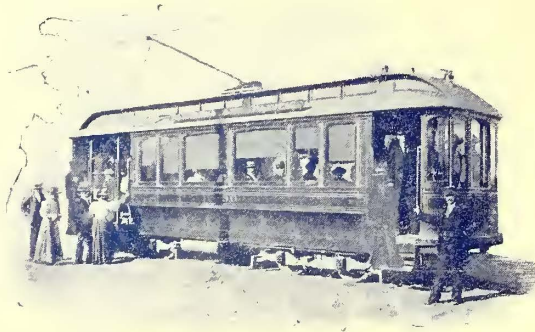
Occasionally we find interesting references to the "Standard" Air-Brake.

It was gratifying to observe in the August number of the "Land of Sunshine" (a Southern California magazine) an illustrated article entitled "A Model Electric Road."

The article illustrated the new Pasadena & Los Angeles Electric Railway.

It also showed the type of cars used on that "model road."

Our illustration shows that type.



The cars are 35 feet long, heavy, and have double trucks. The magazine states :

"The cars also have the *best*, the Standard Air-Brakes; a necessity, since the grades range from 3 to 7 6-10 %."

We did not know the article had been written until a friend called attention to it. That made it all the more interesting. It was a pleasant surprise.

We supplied the Standard Air-Brake on every car on that road, *and since then have received a repeat order to equip their new cars.*

While 7 6-10 % is a respectable grade, it does not terrify us. Our brakes have been used on 13 1-2 % grades with absolute success. And those grades are not for a short distance either, but for a *considerable* distance.

While we are on the subject of Air-Brakes, it may be timely to quote from a letter received recently.

It came all the way from Buda-Pesth, Hungary (where our Air-Brakes are in operation on the conduit road), and reads thus :


"We have mounted your Air-Brakes since two months and we have good success in braking of the cars with them."

Those brakes were mounted by parties who never saw them until their purchase arrived. *They* didn't have any trouble in installing or operating. Nor need you have! *They* didn't buy them for "fun," either. They needed them! *So may you*, even more than they.

Write for address on "Power-Brakes vs. Hand-Brakes" and "The Present Status of the Air-Brake," for probably we can help you.

The Standard Air-Brake Company,

35 WALL STREET, NEW YORK.

 *We were the FIRST IN THE WORLD to build successful Air-Brakes for cable and electric cars. Our original Air-Brakes are in service to-day. They give entire satisfaction. We received the only award for street railway air-brakes from the World's Columbian Exposition. No other street railway air-brakes received "mention" even. (Good reason why—there were no others.) Our PIONEERING and experience should be worth something to you.*

COMPOSITE BRAKE-SHOE CO.,

NEW SHOE.

Proprietors and Manufacturers of the

WORN SHOE.

PATENT "COMPO" BRAKE SHOE.



"COMPO."
TRADE MARK.

The Most Economical Shoe in Use.
 The Best Braking Shoe in Use.
 Retards Without Gripping the Wheel.
 Gives Greatly Increased Wearing Service.
 Is Made of Uniform and Good Metal.
 Especially Adapted for Heavy Grades.
 Can be Applied to Any Make of Truck.

Thousands of these shoes put into service every month on scores of the Leading Electric Railways of the Country.

OFFICE AT 620 ATLANTIC AVENUE, BOSTON, MASS.

Manufactories at

BOSTON, PHILADELPHIA, PITTSBURGH, CHICAGO, AND SAN FRANCISCO.

WILLIAM W. WHITCOMB, Pres. and Gen. Manager.



"COMPO."
TRADE MARK.

Established 1847. A. WHITNEY & SONS, CAR WHEEL WORKS, Philadelphia, Pa.

CHILLED AND STEEL TIRED WHEELS

For Steam, Electric, Cable and Horse Cars and Every Kind of Rolling Stock. Street Car Wheels made since 1857 continuously.

Castings for Railroad and other work, made to specified strength and hardness.

OUR CHILLED WHEELS

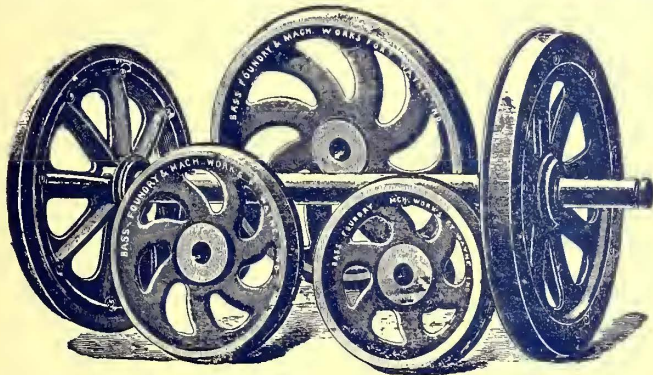
(1) Are made of the VERY BEST WHEEL IRONS, used under chemical and physical tests in our own laboratory and shops and from CAREFULLY PROPORTIONED PATTERNS. In both these points our experience of nearly fifty years is of great advantage.

(2) Are cast in "CONTRACTING CHILLS," giving a deep and uniform chilling effect, and making them accurately round and smooth, so that no grinding is necessary, and the best wearing portion of the tread is thus preserved.

(3) Are THOROUGHLY ANNEALED in furnaces constructed especially for this purpose.

(4) Are GUARANTEED to stand the most severe railroad inspections, and against all defects of material or workmanship, and to give a mileage AT LEAST equal to any chilled wheel made.

BASS FOUNDRY AND MACHINE WORKS, FORT WAYNE, IND.



MANUFACTURERS OF CHILLED CAST IRON CAR WHEELS

Of all sizes,

FOR ELECTRIC AND CABLE CARS.

HAMMERED STEEL AXLES OF SUPERIOR QUALITY.

Sole Builders of the

PATENT CUSHION WHEELS.

The Best Steel Tired Wheel Made for Electric and Cable Cars.

Wheels Mounted on Axles, and Refitting a Specialty.

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NEW YORK OFFICE: 39-41 CORTLANDT STREET, F. RUEL BALDWIN, MANAGER. CHICAGO OFFICE: ROOM 707 THE ROOKERY.

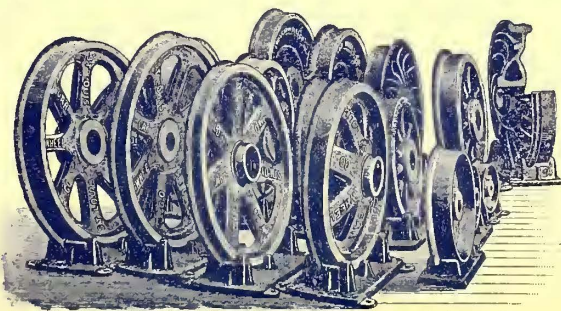
CITY
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607 and 608
Bank of
Commerce
Building.

ST. LOUIS CAR WHEEL CO., ST. LOUIS, MO.

GENERAL
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AND
WORKS,
Spring Ave.
and Mo.
Pacific Ry.

Street-Car Wheel Department,

Chilled Cast Iron Street Car Wheels of all Kinds and Sizes, made only of Best Charcoal Iron, cast in Contracting or Plain Chills, Guaranteed Perfectly Round.



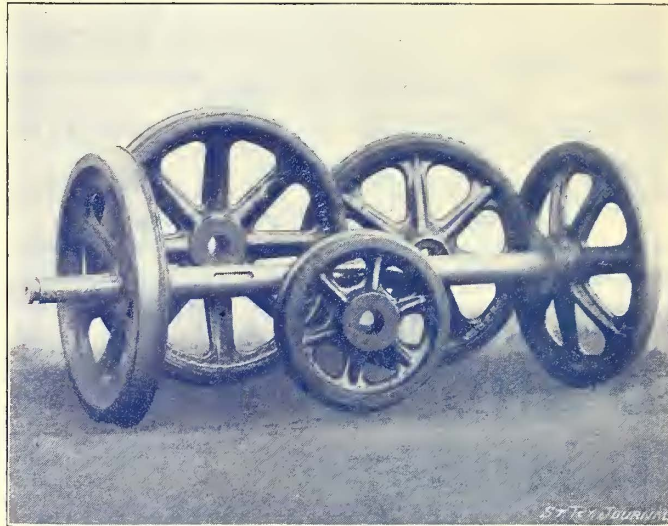
Wheels and Axles Fitted Ready for Application to Cars.

ESTABLISHED 1836.

LOBDELL CAR WHEEL CO.,

WILMINGTON, DELAWARE, U. S. A.

The Oldest Car
Wheel Establishment
in the Country.



CAPACITY,
500 WHEELS
PER DAY.

MANUFACTURERS OF **CHILLED WHEELS**

OF ALL SIZES AND DESCRIPTION FOR **ELECTRIC, CABLE AND HORSE CARS, Etc.**
Suitable for all kinds of rails. **Guaranteed equal to any others made.**

The Dorner & Dutton Mfg. Co.

CLEVELAND, O.

MANUFACTURERS OF

Electric Motor
and Trailer

CAR WHEELS



Write us for Description and Prices of our

NEW DOUBLE PLATE MOTOR CAR WHEEL

It will Outwear any other Motor Wheel Made.

NEW YORK CAR WHEEL WORKS,

BUFFALO, NEW YORK, U. S. A.

MACHINED

CAR WHEELS

) FOR (

ELECTRIC SERVICE.

The results of forty years' experience in the manufacture of Chilled Wheels for every description of service enable us to
GUARANTEE

SAFETY AND DURABILITY.

Our Machined WHEELS are guaranteed true to $1/64$ th of an inch.

Our AXLES are guaranteed true to $3/1000$ ths of an inch.

NEW YORK CAR WHEEL WORKS,

Buffalo, N. Y., U. S. A.

CHICAGO. DETROIT.
GRIFFIN WHEEL CO.
DENVER. ST. PAUL.

MANUFACTURERS OF

CHILLED IRON
CAR WHEELS
OF EVERY DESCRIPTION.

Mileage made by Wheels manufactured by Griffin Wheel Company, Chicago, which were removed from under Street's Stable Car Line Cars for the Twenty-three Months Ending December 1st, 1894.

Street's Stable Car Line have 30,000 Griffin Wheels in Service.

Miles Run.	No. of Wheels Removed.	Percentage to Whole No. Removed
70,000 to 100,000	306	24.217
100,000 to 110,000	138	10.935
110,000 to 120,000	153	12.125
120,000 to 130,000	147	11.648
130,000 to 140,000	141	11.174
140,000 to 150,000	114	9.033
150,000 to 160,000	76	6.023
160,000 to 170,000	19	1.505
170,000 to 180,000	5	.475
180,000 to 190,000	8	.16
190,000 to 200,000	1	.08

Wheels making less than 70,000 miles for which the Griffin Wheel Co. are responsible..... 26

Wheels making less than 70,000 miles removed from causes not under control of maker..... 134

WHOLE NUMBER REMOVED..... 1,262

796 Wheels, or 63 per cent. of the Whole Number Removed, made over 100,000 miles.

This record covers ALL Griffin Wheel Company's Wheels Removed.

THIS SPACE TAKEN

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MISSOURI CAR & FOUNDRY COMPANY

ST. LOUIS, MO.

MANUFACTURERS OF

High Grade Car Wheels.



We wish an opportunity to submit you confidential statements of mileage records and ask a trial order for wheels. We claim to furnish the best wheels in the market. The first cost may be more than others, but considering the service rendered, they will prove the cheapest in the end. We manufacture all styles of motor, cable, trailer and horse car wheels; also chilled iron brake shoes.

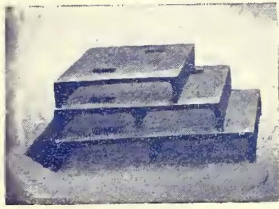
Give us an order for our wheels with improved flange and tread, and save the loss of so many chipped flanges.

THE Q & C SPECIALTIES.

Standard on most of our Railroad Systems.



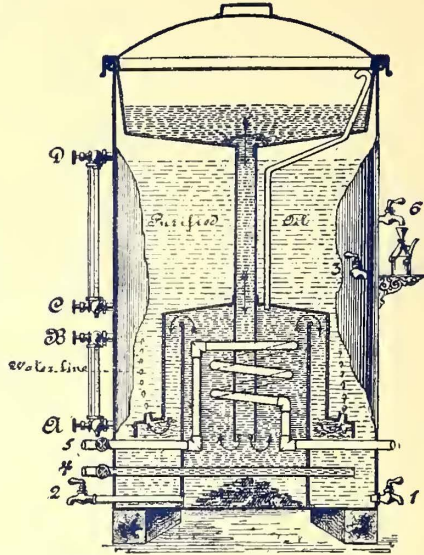
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Combine Safety, Economy, Uniformity in Track.

The Q & C Perfection Oil Purifier.

Reduces your Oil Bill. Saves Labor.



Keeps Machinery in a Better Condition.

Manufactured Exclusively for the Q & C Company.

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632 Equitable Bldg., ATLANTA, GA.

525 Mission St., SAN FRANCISCO, CAL.

70 Kilby Street, BOSTON, MASS.

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Carbolineum

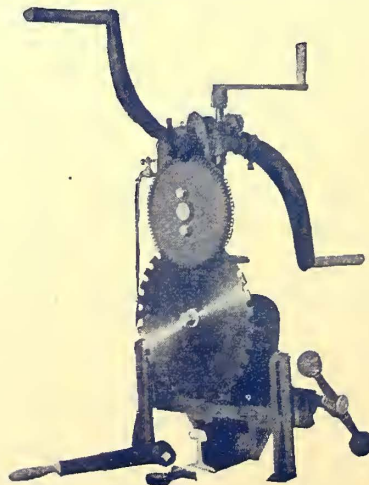
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APPLIED WITH BRUSH OR SOAKING.

PREVENTS ALL DRY OR WET ROT.

TRY A SAMPLE BARREL.

COLD METAL SAWING MACHINES.



FOR ALL SIZES OF WORK.

Hundreds in use on street and steam railroads in the United States and abroad.

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OF

Manufacturers and Dealers in Street Railway Supplies.

NOTE—For reference to the advertisements, see alphabetical index on pages IX, X.

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ÆTNA INSULATORS.

Anderson, A. & J. M., Boston, Mass.

AMMETERS.

(See Voltmeters.)

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Young Lock Nut Co., New York.

AIR-BRAKES.

Hunt Air-Brake Co., Pittsburg, Pa.
Standard Air-Brake Co., New York.

AIR-PUMPS.

Philadelphia Engineering Works (Ltd.), Phila., Pa.

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Boyton, Paul, Co., New York.
Armitage-Herschell Co., North Tonawanda, N. Y.

AUTOMATIC SWITCHES.

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Dorner & Dutton Mfg. Co., Cleveland, O.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Weir Frog Co., Cincinnati, O.
Wharton, Wm., Jr., & Co., Philadelphia, Pa.

AXLES.

Bass F'dry & Mach. Works, Fort Wayne, Ind.
Brill, J. G., Co., Philadelphia, Pa.
Dorner & Dutton Mfg. Co., Cleveland, O.
Fulton Truck & Foundry Co., Mansfield, O.
Peckham Motor Truck & Wheel Co., New York.
Stephenson, John, Co., Ld., New York.
St. Louis Car Wheel Co., St. Louis, Mo.
Union Drawn Steel Co., Beaver Falls, Pa.
Whitney, A., & Sons, Philadelphia, Pa.

BANK NOTE ENGRAVING.

Bradley, T. A., Philadelphia, Pa.

BANKERS AND BROKERS.

Almstedt Brothers, Louisville, Ky.
Barbour, John B., Jr., Pittsburg, Pa.
Barth, Phillip, San Francisco, Cal.
Campbell, James, St. Louis, Mo.
Chace & Butts, Providence, R. I.
Chandler, A. N., & Co., Philadelphia, Pa.
Counselman, Willis, & Co., Chicago, Ill.
Crane, Parris & Co., Washington, D. C.
Currie, Cameron, & Co., Detroit, Mich.
Day, R. L., & Co., Boston, Mass.
Hambleton & Co., Baltimore, Md.
Harris, N. W., & Co., Chicago, Boston, New York.
Huhn, Geo. A., & Sons, Philadelphia, Pa.
Irwin, Ellis & Ballmann, Cincinnati, O.
Kaufman, A. C., Charleston, S. C.
Mackintosh, J. G., & Co., Holyoke, Mass.
McMillin, Emerson, & Co., New York.
Redmond, Kerr & Co., New York.
Stewart & Co., New York.
Strathy, Gordon, & Co., Montreal, Can.
Trask, Spencer, & Co., Albany, N. Y.
Warren, H. C., & Co., New Haven, Conn.

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Billings & Spencer Co., Hartford, Conn.
Forest City Electric Co., Cleveland, O.
Frost's Sons, J. O., Towanda, Pa.

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Electric Storage Battery Co., Phila., Pa.

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Bemis Car Box Co., Springfield, Mass.
Brill, J. G., Co., Philadelphia, Pa.
Dorner & Dutton Mfg. Co., Cleveland, O.
Electric Railway Equipment Co., Cincinnati, O.
Mayer & Englund, Philadelphia, Pa.
Nuttall, R. D., Co., Allegheny, Pa.
Ohio Brass Co., Mansfield, O.
Peckham Motor Truck & Wheel Co., New York.
Simonds Mfg. Co., Pittsburg, Pa.
Stephenson, John, Co., Ld., New York.
Taylor Electric Truck Co., Troy, N. Y.
Wharton, Wm., Jr., & Co., Philadelphia, Pa.

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Reck, Frank C., & Co., Chicago.

BELLS, CAR.

Brill, J. G., Co., Philadelphia, Pa.
Pittsburgh Steel Hollow Ware Co., Allegheny City, Pa.
Seamless Structural Co., Milwaukee, Wis.

BELTING.

Link-Belt Engineering Co., Nicetown, Pa.
Shultz Belting Co., St. Louis, Mo.

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Keasbey, Robt. A., New York.

BOILERS.

Babcock & Wilcox Co., New York.
Bass Foundry & Machine Works, Fort Wayne, Ind.
Clonbrock Steam Boiler Works, Brooklyn, N. Y.
Collins, H. E., & Co., Pittsburg, Pa.
Corliss Steam Engine Co., Providence, R. I.
Hazelton Boiler Co., The, New York.
Heine Safety Boiler Co., St. Louis, Mo.
McNaull, W. D., & Co., Cleveland, O.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Southwark Foundry & Machine Co., Philadelphia, Pa.
Stirling Co., The, Chicago, Ill.
Wetherill, Robert, & Co., Chester, Pa.
Woodbridge & Turner Engineering Co., New York.

BOLTS, FISH PLATES, ETC.

Barbour, Stockwell Co., Cambridgeport, Mass.
Cambria Iron Co., Philadelphia, Pa.
Dick, Kerr & Co., London, Eng.
Dorner & Dutton Mfg. Co., Cleveland, O.
Harrington, Robinson & Co., Boston, Mass.
Mark Railway Equipment Co., Chicago, Ill.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Steel Rail Supply Co., The, New York.
Wharton, Wm., Jr., & Co., Philadelphia, Pa.

BONDING PINS.

Creaghead Engineering Co., Cincinnati, O.

BONDS, RAIL.

Benedict & Burnham Mfg. Co., New York.
Brown, Harold P., New York.
General Electric Co., Schenectady and New York.
Hoefene, Moxham & Co., New York.
New York Electrical Works, New York.
Ohio Brass Co., Mansfield, O.
Washburn & Moen Mfg. Co., Worcester, Mass.
Wightman, H. J., & Co., Scranton, Pa.
Young Lock Nut Co., New York.

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Bemis Car Box Co., Springfield, Mass.
Brill, J. G., Co., Philadelphia, Pa.
Chester Steel Castings Co., Philadelphia, Pa.
Dorner & Dutton Mfg. Co., Cleveland, O.
Harrington, Robinson & Co., Boston, Mass.
Peckham Motor Truck & Wheel Co., New York.
Stephenson, John, Co., Ld., New York.
Taylor Electric Truck Co., Troy, N. Y.
Young Lock Nut Co., New York.

BRACKETS, POLE.

Burnham & Duggan Railway Appliance Co., Boston, Mass.
Creaghead Engineering Co., Cincinnati, O.
Ohio Brass Co., Mansfield, O.
Wrought Iron Bridge Co., Canton, O.

BRAKE HANDLES.

Brill, J. G., Co., Philadelphia, Pa.
Kelsey Electric Railway Specialty Co., New Haven, Conn.
Kraushaar Lamp & Reflector Co., St. Louis, Mo.
Stephenson, John, Co., Ld., New York.

BRAKE SHOES.

Brill, J. G., Co., Philadelphia, Pa.
Chester Steel Castings Co., Philadelphia, Pa.
Composite Brake Shoe Co., Boston, Mass.

Dorner & Dutton Mfg. Co., Cleveland, O.
Frost's Sons, J. O., Towanda, Pa.
Missouri Car & Foundry Co., St. Louis, Mo.
Peckham Motor Truck & Wheel Co., New York.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Stephenson, John, Co., Ld., New York.
Taylor Electric Truck Co., Troy, N. Y.
Wharton, Wm., Jr., & Co., Philadelphia, Pa.
Young Lock Nut Co., New York.

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Brill, J. G., Co., Philadelphia, Pa.
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Hunt Air-Brake Co., Pittsburg, Pa.
Kelsey Electric Railway Specialty Co., New Haven, Conn.
Peckham Motor Truck & Wheel Co., New York.
Prouty-Noble Co., Chicago, Ill.
Standard Air-Brake Co., New York.
Stephenson, John, Co., Ld., New York.
Sterling Supply & Mfg. Co., New York.
Tandem Brake Co. of United States, New York.
Taylor Electric Truck Co., Troy, N. Y.

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Berlin Iron Bridge Co., East Berlin, Conn.
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Wrought Iron Bridge Co., Canton, O.

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Hickley Launch & Electrical Mfg. Co., Asbury Park, N. J.
Hunter Automatic Fender Co., Cincinnati, O.
Ohio Brass Co., Mansfield, O.

BRUSHES, MOTOR AND DYNAMO.

New York Carbon Works, New York.
Partridge Carbon Co., Sandusky, O.

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Penn Bridge Co., Beaver Falls, Pa.
Wrought Iron Bridge Co., Canton, O.

CABLE DRIVING MACHINERY.

Gresson, Geo. V., Co., Philadelphia, Pa.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Walker Manufacturing Co., Cleveland, O.
Wharton, Wm., Jr., & Co., Philadelphia, Pa.

CABLE ROADS AND MATERIALS.

Conway, M. W., Brooklyn, N. Y.
Dick, Kerr & Co., London, Eng.
Mark Railway Equipment Co., Chicago, Ill.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Saxton, E., Washington, D. C.
Serrell, Lemuel W., New York.
Walker Manufacturing Co., Cleveland, O.
Weir Frog Co., Cincinnati, O.
Wharton, Wm., Jr., & Co., Philadelphia, Pa.

CABLE YOKES.

Pennsylvania Iron Works Co., Philadelphia, Pa.
Walker Mfg. Co., Cleveland, O.
Wharton, Wm., Jr., & Co., Philadelphia, Pa.

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Ansonia Brass & Copper Co., New York.
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Creaghead Engineering Co., Cincinnati, O.
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Metropolitan Electric Co., Chicago, Ill.
New York Electrical Works, New York.
Okonite Co., (Ltd.), The, New York.
Roebing's Sons Co., J. A., Trenton, N. J.
Standard Underground Cable Co., New York, Pittsburgh, Chicago.
Washburn & Moen Mfg. Co., Worcester, Mass.
Western Electric Co., New York.
Wightman, H. J., & Co., Scranton, Pa.

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Cradock, Geo., & Co., Wakefield, England.
Hazard Mfg. Co., Wilkesbarre, Pa.
Roebing's, J. A., Sons Co., Trenton, N. J.
Walker Manufacturing Co., Cleveland, O.
Washburn & Moen Mfg. Co., Worcester, Mass.

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INSULATION.

HIGHEST GRADE MANUFACTURED.

Insulated Switchboard Feeders and Flexible Cords.

W. R. BRIXEY, MFR., - 203 BROADWAY, NEW YORK.

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Partridge Carbon Co., Sandusky, O.

CAR COUPLERS.

(See Couplers, Car.)

CAR LIGHTING.

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Safety Car Heating & Lighting Co., New York.

CAR SEATS.

(See Seating, Car.)

CAR SHADES.

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CAR STOVES.

(See Stoves, Car.)

CAR TRIMMINGS.

(See Trimmings, Car.)

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American Car Co., St. Louis, Mo.
Barney & Smith Car Co., Dayton, O.
Blackwell, Robert W., London, England.
Brill, J. G., Co., Philadelphia, Pa.
Brownell Car Co., St. Louis, Mo.
Jackson & Sharp Co., Wilmington, Del.
Jones, J. M., Sons, West Troy, N. Y.
Laclede Car Co., St. Louis, Mo.
Laconia Car Co., Laconia, N. H.
Massachusetts Car Co., Boston, Mass.
New Castle Car Mfg. Co., New Castle, Pa.
Pullman's Palace Car Co., Chicago, Ill.
St. Louis Car Co., St. Louis, Mo.
Steel Rail Supply Co., New York.
Stephenson, John, Co., Ltd., New York.
Trimble, James A., New York.
Wason Manufacturing Co., Springfield, Mass.
Wells & French Co., Chicago, Ill.
Woodbridge & Turner Engineering Co., New York.

CARS, SECOND HAND.

Martin & Breckinridge, New York.
Standard Air Brake Co., New York.
Steel Rail Supply Co., New York.
Woods, H. F., Boston, Mass.
Young Lock Nut Co., New York.

CAST WELDED JOINTS.

Falk Manufacturing Co., Milwaukee, Wis.

CASTINGS.

Bethlehem Iron Co., South Bethlehem, Pa.
Chester Steel Castings Co., Philadelphia, Pa.
Cresson, Geo. V., Co., Philadelphia, Pa.
Dorner & Dutton Mfg. Co., Cleveland, O.
Frost's Sons, J. O., Towanda, Pa.
Kraushaar Lamp & Reflector Co., St. Louis, Mo.
Laconia Car Co., Laconia, N. H.
Mark Railway Equipment Co., Chicago, Ill.
Martin & Breckinridge, New York.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Wharton, Wm., Jr., & Co., Philadelphia, Pa.

CHAIRS, RAIL.

Barbour, Stockwell Co., Cambridgeport, Mass.
Burnham & Duggan Railway Appliance Co., Boston, Mass.
Johnson Co., Johnstown, Pa.
Mark Railway Equipment Co., Chicago, Ill.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Steel Rail Supply Co., New York.
Weir Frog Co., Cincinnati, O.
Wharton, Wm., Jr., & Co., Philadelphia, Pa.
Young Lock Nut Co., New York.

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Hunt, C. W., Co., New York.
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Mitchell, J. Henry, Philadelphia, Pa.

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COMMUTATOR LUBRICANTS.

Wadhams Oil & Grease Co., Milwaukee, Wis.

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Frost's Sons, J. O., Towanda, Pa.
General Electric Co., Schenectady and New York.
Ohio Brass Co., Mansfield, O.
Simonds Mfg. Co., Pittsburgh, Pa.

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Knowles Steam Pump Works, New York.
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Westinghouse, Church, Kerr & Co., New York.
Pittsburgh, etc.

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Knowles Steam Pump Works, New York.
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Westinghouse, Church, Kerr & Co., New York.
Pittsburgh, etc.

CONDUIT ELECTRIC SYSTEM.

Love Electric Traction Co., New York.

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Conway, M. W., Brooklyn, N. Y.
Craig, Wm. P., East Orange, N. J.
Creaghead Engineering Co., The, Cincinnati, O.
Dick, Kerr & Co., London, England.
Electrical Installation Co., Chicago, Ill.
Electric Railway Equipment Co., Cincinnati, O.
Field, C. J., Co., New York.
Ford & Bacon, New York and Philadelphia.
Hildreth, R. W., & Co., New York.
Hoefgen, Moxham & Co., New York.
Hutchinson, A. J., New York.
Loss, C. E., & Co., Chicago, Ill.
McNally, Thomas, Pittsburgh, Pa.
Murray, J. D., New Brunswick, N. J.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Pepper & Register, Philadelphia, Pa.
Reed & McKibbin, New York.
Saxton, E., Washington, D. C.
Serrell, Lemuel W., New York.
Sheaff & Jaastad, Boston, Mass.
Smethurst & Allen, Philadelphia, Pa.
Smith, Thos. G., Jr., Cincinnati, O.
Stern & Silverman, Philadelphia, Pa.
Stirling, J. R., & Co., Detroit, Mich.
Wardwell Bros., Danbury, Conn.
Westinghouse, Church, Kerr & Co., New York.
Pittsburgh, etc.
Westinghouse Electrical & Manufacturing Co., Pittsburgh, Pa.
White-Crosby Co., Baltimore, Md.
Woodbridge & Turner Engineering Co., New York.

CONTROLLERS.

General Electric Co., Schenectady, N. Y.
Steel Motor Co., Cleveland, O.
Walker Manufacturing Co., Cleveland, O.
Westinghouse Electric & Manufacturing Co., Pittsburgh, Pa.

CONVEYORS, COAL AND ASHES.

Hunt, C. W., Co., New York.
Link-Belt Engineering Co., Nicetown, Pa.
Mead, John A., Mfg. Co., Rutland, Vt.
Mitchell, J. Henry, Philadelphia, Pa.

COUPLERS, CAR.

Chester Steel Castings Co., Philadelphia, Pa.
Fitzgerald-Van Dorn Co., Chicago, Ill.
Young Lock Nut Co., New York.

CRANES, TRAVELING.

Box, Alfred, & Co., Philadelphia, Pa.
Harrington, Edwin, Son & Co., Incorporated, Philadelphia, Pa.

CRESOTED CONDUIT.

Walworth & Neville, Bay City, Mich., and New York.

CROSSINGS, FROGS AND SWITCHES.

Barbour, Stockwell Co., Cambridgeport, Mass.
Bethlehem Iron Co., South Bethlehem, Pa.
Cleveland Frog & Crossing Co., Cleveland, O.
Dick, Kerr & Co., London, Eng.
Dorner & Dutton Mfg. Co., Cleveland, O.
Fulton Truck & Foundry Co., Mansfield, O.
Harrington, Robinson & Co., Boston, Mass.
Mark Railway Equipment Co., Chicago, Ill.
New York Frog & Switch Co., Hoboken, N. J.
Palge Iron Works, Chicago, Ill.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Steel Rail Supply Co., New York.
Weir Frog Co., Cincinnati, O.
Wharton, Wm., Jr., & Co., Philadelphia, Pa.
Young Lock Nut Co., New York.

DETECTIVE SERVICE.

Drummond's Detective Agency, New York.
Thiel's Detective Service, New York.

DERMAGLUTINE.

Groetzinger, A., & Sons, Allegheny, Pa.

DRAWN IRON AND STEEL PRODUCTS.

Union Drawn Steel Co., Beaver Falls, Pa.

DYNAMIOS.

(See Generators.)

ECONOMIZERS.

Fuel Economizer Co., The, Matteawan, N. Y.

ELECTRICAL INSTRUMENTS.

General Electric Co., Schenectady and New York.
Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.
Weston Electrical Instrument Co., Newark, N. J.

ELECTRICAL MACHINERY (SECOND HAND).

Wood, Charles N., Boston, Mass.

ELECTRIC RAILWAY SUPPLIES.

(See Supplies, Electric Railway.)

ELEVATORS.

Link-Belt Engineering Co., Nicetown, Pa.
Mead, John A., Mfg. Co., Rutland, Vt.

ENGINEERS.

Adams, Alton D., Boston, Mass.
Blackwell, Robert W., London, Eng.
Bickford, J. H., Salem, Mass.
Conway, M. W., Brooklyn, N. Y.
Cornell, Charles L., Hamilton, O.
Craig, Wm. P., East Orange, N. J.
Creaghead Engineering Co., Cincinnati, O.
Davis, Lewis K., New York.
Dick, Kerr & Co., London, Eng.
Electrical Installation Co., Chicago, Ill.
Field, C. J., Co., New York.
Ford & Bacon, New York and Philadelphia.
General Electric Co., Schenectady and New York.
Hilgins, Edward E., New York.
Hildreth, R. W., & Co., New York.
Hoefgen, Moxham & Co., New York.
Hutchinson, A. J., New York.
Loss, C. E., & Co., Chicago, Ill.
Mailoux, C. O., New York.
McNally, Thos., Pittsburgh, Pa.
Murray, J. D., New Brunswick, N. J.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Pepper & Register, Philadelphia, Pa.
Reed & McKibbin, New York.
Saxton, E., Washington, D. C.
Serrell, Lemuel W., New York.
Sheaff & Jaastad, Boston, Mass.
Siemens & Halske Electric Co. of America, Chicago.
Smethurst & Allen, Philadelphia, Pa.
Smith, Thos. G., Jr., Cincinnati, O.
Stern & Silverman, Philadelphia, Pa.
Stirling, J. R., Detroit, Mich.
Vail, J. H., New York.
Walker Manufacturing Co., Cleveland, O.
Wardwell Bros., Danbury, Conn.
Westinghouse, Church, Kerr & Co., New York.
Pittsburgh, etc.
White-Crosby Co., Baltimore, Md.
Woodbridge & Turner Engineering Co., New York.

ENGINES.

Allis, The Edward P. Co., Milwaukee, Wis.
Ball & Wood Co., The, New York.
Ball Engine Co., Erie, Pa.
Bass Foundry and Machine Works, Fort Wayne, Ind.
Baies Machine Co., Joliet, Ill.
Cooper, C. & G., & Co., Mt. Vernon, O.
Corliss Steam Engine Co., Providence, R. I.
Currier, Mayo & Co., Boston, Mass.
Fishkill Landing Machine Co., Fishkill-on-Hudson.
Fleming, W. R., & Co., New York.
Harrisburgh Foundry & Machine Works, Harrisburgh, Pa.
Hooven, Owens & Rentschler Co., Hamilton, O.
McEwen, J. H., Mfg. Co., New York.
McIntosh, Seymour & Co., Auburn, N. Y.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Philadelphia Engineering Works (Ltd.), Phila., Pa.
Phenix Iron Works Co., Meadville, Pa.
Pierce & Miller Engineering Co., New York.
Southwark Foundry & Machine Co., Phila., Pa.
Tod, Wm. & Co., Youngstown, O.
Walker Mfg. Co., The, Cleveland, O.
Westinghouse, Church, Kerr & Co., New York.
Pittsburgh, etc.
Westinghouse Machine Co., Pittsburgh, Pa.
Weston Engine Co., Painted Post, N. Y.
Wetherill, Robert & Co., Chester, Pa.
Woodbridge & Turner Engineering Co., New York.
Young Lock Nut Co., New York.

EXHAUST STEAM SPECIALTIES.

American District Steam Co., Lockport, N. Y.
Webster, Warren, & Co., Camden, N. J.

EYE BOLTS.

Creaghead Engineering Co., Cincinnati, O.
Young Lock Nut Co., New York.

FARE BOXES.

Brill, J. G., Co., Philadelphia, Pa.
Brownell Car Co., St. Louis, Mo.
Stephenson, John, Co., Ltd., New York.
St. Louis Car Co., St. Louis, Mo.

FARE REGISTERS.

(See Registers, Fare.)

FEED WATER HEATERS.

(See Heaters, Feed Water.)

FEED PUMPS.

Blake, Geo. F., Mfg. Co., New York.
Knowles Steam Pump Works, New York.

FEED WIRES.

Benedict & Burnham Mfg. Co., New York.
Briley, W. R., New York.
Central Electric Co., Chicago, Ill.
Creaghead Engineering Co., Cincinnati, O.
Eastern Electric Cable Co., Boston, Mass.
Electric Railway Equipment Co., Cincinnati, O.
Fiberite Co., Mechanicville, N. Y.
General Electric Co., Schenectady and New York.
Hoefgen, Moxham & Co., New York.

Metropolitan Electric Co., Chicago, Ill.
 Okonite Co., Inc., Ltd., New York.
 Roebling's, J. A., Sons Co., Trenton, N. J.
 Standard Underground Cable Co., New York, Pitts-
 burgh, Chicago.
 Washburn & Moen Mfg. Co., Worcester, Mass.
 Western Electric Co., New York.

FELT FOR LUBRICATING BEARINGS.
 Reck, Frank C., & Co., Chicago, Ill.

FENDERS AND GUARDS.
 Consolidated Car Fender Co., Providence, R. I.
 Hunter Automatic Fender Co., Cincinnati, O.
 Peckham Motor Truck & Wheel Co., New York.
 Simonds Mfg. Co., Pittsburgh, Pa.
 Sterling Supply & Mfg. Co., New York.
 Young Lock Nut Co., New York.

FILTERS, OIL.
 Universal Filter Co., Philadelphia, Pa.

FIRE PUMPS.
 Blake, Geo. F., Mfg. Co., New York.
 Knowles Steam Pump Works, New York.

FORGINGS.
 Bethlehem Iron Co., South Bethlehem, Pa.
 Dorner & Dutton Mfg. Co., Cleveland, O.
 Pennsylvania Iron Works Co., Phila., Pa.

FRICITION CLUTCHES.
 Pennsylvania Iron Works Co., Philadelphia, Pa.
 Walker Manufacturing Co., Cleveland, O.

FURNACES.
 Philadelphia Engineering Works (Ltd.), Phila., Pa.

GAUGES, WATER.
 Reliance Gauge Co., Cleveland, O.

GEARS AND PINIONS.
 Chester Steel Castings Co., Philadelphia, Pa.
 Gresson, Geo. V., Co., Philadelphia, Pa.
 Dorner & Dutton Mfg. Co., Cleveland, O.
 Electric Railway Equipment Co., Cincinnati, O.
 General Electric Co., Schenectady and New York.
 Groetzinger, A., & Sons, Allegheny, Pa.
 Horsburgh & Scott, Cleveland, O.
 Kunz & Rau Gear Co., Milwaukee, Wis.
 Mayer & Englund, Philadelphia, Pa.
 New Process Raw Hide Co., Syracuse, N. Y.
 Nuttall, R. D., Co., Allegheny, Pa.
 Pennsylvania Iron Works Co., Philadelphia, Pa.
 Simonds Mfg. Co., Pittsburgh, Pa.
 Standard Railway Supply Co., Chicago, Ill.
 Steel Motor Co., The, Cleveland, O.
 Walker Mfg. Co., The, Cleveland, O.
 Western Electric Co., New York.
 Wharton, Wm., Jr., & Co., Philadelphia, Pa.
 Woodbridge & Turner Engineering Co., New York.

GENERATORS.
 General Electric Co., Schenectady and New York.
 Siemens & Halske Electric Co. of America, Chicago.
 Steel Motor Co., The, Cleveland, O.
 Walker Manufacturing Co., Cleveland, O.
 Westinghouse, Church, Kerr & Co., New York,
 Pittsburgh, etc.
 Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.

GONGS, CAR.
 Brill, J. G., Co., Philadelphia, Pa.
 Pittsburgh Steel Hollow Ware Co., Allegheny, Pa.
 Seamless Structural Co., Milwaukee, Wis.

GRAPHITE.
 Dixon, Jos., Crucible Co., Jersey City, N. J.

GRATES.
 Water Circulating Grate Co., Philadelphia, Pa.

GREASE.
 Union Grease Co., Boston, Mass.
 Wadhams Oil & Grease Co., Milwaukee, Wis.

GRIPS.
 Pennsylvania Iron Works Co., Philadelphia, Pa.

HANGERS, CABLE.
 Standard Underground Cable Co., New York, Pitts-
 burgh, Chicago.

HANGERS, TROLLEY.
 Anderson, A. & J. M., Boston, Mass.
 Billings & Spencer Co., Hartford, Conn.
 Burnham & Duggan Railway Appliance Co.,
 Boston, Mass.
 Central Electric Co., Chicago, Ill.
 Craghead Engineering Co., Cincinnati, O.
 Electrical Railway Equipment Co., Cincinnati, O.
 Fiberite Co., Mechanicville, N. Y.
 General Electric Co., Schenectady and New York.
 Johns, H. W., Manufacturing Co., New York.
 Mayer & Englund, Philadelphia, Pa.
 Metropolitan Electric Co., Chicago, Ill.
 New York Electrical Works, New York.
 Nuttall, R. D., Co., Allegheny, Pa.
 Ohio Brass Co., Mansfield, O.
 Steel Motor Co., The, Cleveland, O.
 Western Electric Co., New York & Chicago.
 Wightman, H. J., & Co., Scranton, Pa.

HEADLIGHTS.
 Brill, J. G., Co., Philadelphia, Pa.
 Changeable Electric Headlight Co., Syracuse, N. Y.
 Kraushaar Lamp & Reflector Co., St. Louis, Mo.
 Ohio Brass Co., Mansfield, O.
 Young Lock Nut Co., New York.

HEATERS, CAR (ELECTRIC).
 Brill, J. G., Co., Philadelphia, Pa.
 Consolidated Car Heating Co., Albany, N. Y.
 Gold Street Car Heating Co., New York.
 Ohio Brass Co., Mansfield, O.

HEATERS, CAR (STOVES).
 Brill, J. G., Co., Philadelphia, Pa.
 McGuire Manufacturing Co., Chicago, Ill.

HEATERS, FEED WATER.
 Bass Foundry & Machine Works, Fort Wayne, Ind.
 Fuel Economizer Co., The, Matteawan, N. Y.
 Goubert Manufacturing Co., The, New York.
 Holly Steam Engineering Co., Providence, R. I.
 Hoppes Manufacturing Co., Springfield, O.
 Philadelphia Engineering Works (Ltd.), Phila., Pa.
 Webster, Warren, & Co., Camden, N. J.

HOSE BRIDGES.
 Metropolitan Electric Co., Chicago, Ill.
 Portable Hose Bridge Co., Detroit, Mich.

HYDRAULIC JACKS.
 (See Jacks, Hydraulic.)

INJECTORS.
 Young Lock Nut Co., New York.

**INSTRUMENTS, MEASURING AND TEST-
 ING.**
 Weston Electrical Instrument Co., Newark, N. J.

INSULATORS.
 Anderson, A. & J. M., Boston, Mass.
 Billings & Spencer Co., Hartford, Conn.
 Blackwell, Robert W., London, England.
 Burnham & Duggan Railway Appliance Co., Bos-
 ton, Mass.
 Central Electric Co., Chicago, Ill.
 Craghead Engineering Co., Cincinnati, O.
 Electric Railway Equipment Co., Cincinnati, O.
 Fiberite Co., The, Mechanicville, N. Y.
 Frost's Sons, J. O., Towanda, Pa.
 General Electric Co., Schenectady and New York.
 Johns, H. W., Manufacturing Co., New York.
 Mayer & Englund, Philadelphia, Pa.
 Metropolitan Electric Co., Chicago, Ill.
 Mica Insulator Co., New York.
 Ohio Brass Co., Mansfield, O.
 Steel Motor Co., The, Cleveland, O.
 Western Electric Co., New York & Chicago.
 Wightman, H. J., & Co., Scranton, Pa.
 Young Lock Nut Co., New York.

INSULATORS, MICA.
 Craghead Engineering Co., Cincinnati, O.
 Fiberite Co., The, Mechanicville, N. Y.
 Johns, H. W., Manufacturing Co., New York.
 Munsell, Eugene, & Co., New York.
 Wrought Iron Bridge Co., Canton, O.

INSURANCE.
 Guarantors' Liability Indemnity Co. of Pennsyl-
 vania, Philadelphia, Pa.

IRON STRUCTURAL WORK.
 Berlin Iron Bridge Co., East Berlin, Conn.
 Penn Bridge Co., Beaver Falls, Pa.
 Wrought Iron Bridge Co., Canton, O.

JACKS, HYDRAULIC.
 Schaffer, J. T., Manufacturing Co., Rochester, N. Y.
 Walker Manufacturing Co., The, Cleveland, O.
 Watson & Stillman, New York.

JOINTS, CAST WELDED.
 Falk Manufacturing Co., Milwaukee, Wis.

JOINTS, RAIL.
 Cambria Iron Co., Philadelphia, Pa.
 Falk Manufacturing Co., Milwaukee, Wis.
 Harrington, Robinson & Co., Boston, Mass.
 Mark Railway Equipment Co., Chicago, Ill.
 Pennsylvania Iron Works Co., Philadelphia, Pa.
 Weber Railway Joint Mfg. Co., New York.
 Wharton, Wm., Jr., & Co., Philadelphia, Pa.
 Wheeler Rail Joint Co., New York.

JUNCTION BOXES.
 Standard Underground Cable Co., New York,
 Pittsburgh, Chicago.

KNEES AND OTHER TRACK CASTINGS.
 Barbour, Stockwell Co., Cambridgeport, Mass.
 Dorner & Dutton Mfg. Co., Cleveland, O.
 Fulton Truck & Foundry Co., Cleveland, O.
 Harrington, Robinson & Co., Boston, Mass.
 Mark Railway Equipment Co., Chicago, Ill.
 Pennsylvania Iron Works Co., Philadelphia, Pa.
 Steel Rail Supply Co., The, New York.
 Weir Frog Co., Cincinnati, O.
 Wharton, Wm., Jr., & Co., Philadelphia, Pa.

LAMPS, CAR.
 Brill, J. G., Co., Philadelphia, Pa.
 Kraushaar Lamp & Reflector Co., St. Louis, Mo.
 Stephenson, John, Co., Ltd., New York.

LAMPS, ELECTRIC.
 Craghead Engineering Co., Cincinnati, O.
 General Electric Co., Schenectady and New York.
 Kraushaar Lamp & Reflector Co., St. Louis, Mo.
 Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.

LAMPS, RAILWAY ARC.
 Corey, R. B., New York.

LIGHTING, CAR.
 Consolidated Car Heating Co., Albany, N. Y.
 Safety Car Heating & Lighting Co., New York.

LIGHTNING ARRESTERS.
 Central Electric Co., Chicago, Ill.
 General Electric Co., Schenectady and New York.
 Ohio Brass Co., Mansfield, O.
 Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.

LINE MATERIAL.
 Anderson, A. & J. M., Boston, Mass.
 Billings & Spencer Co., Hartford, Conn.
 Blackwell, Robert W., London, England.
 Central Electric Co., Chicago, Ill.
 Craghead Engineering Co., Cincinnati, O.
 Electric Railway Equipment Co., Cincinnati, O.
 Fiberite Co., Mechanicville, N. Y.
 Frost's Sons, J. O., Towanda, Pa.
 Hoefgen, Moxham & Co., New York.
 Johns, H. W., Mfg. Co., New York.
 Kelsey Electric Railway Specialty Co., New Haven,
 Conn.
 Mayer & Englund, Cbas. J., Philadelphia, Pa.
 Metropolitan Electric Co., Chicago, Ill.
 New York Electrical Works, New York.
 Ohio Brass Co., Mansfield, O.
 Western Electric Co., New York & Chicago.
 Wightman, H. J., & Co., Scranton, Pa.

LOCK NUTS.
 Young Lock Nut Co., New York.

LOCOMOTIVES.
 Martin & Breckinridge, New York.
 Steel Rail Supply Co., The, New York.
 Young Lock Nut Co., New York.

LUBRICANTS.
 Chisholm, A., & Co., Bay City, Mich.
 Dixon, Joseph, Crucible Co., Jersey City, N. J.
 Union Grease Co., Boston, Mass.
 Wadhams Oil & Grease Co., Milwaukee, Wis.

MACHINERY AND MACHINE TOOLS.
 Billings & Spencer Co., Hartford, Conn.
 Box, Alfred, & Co., Philadelphia, Pa.
 Harrington, Edwin, Son & Co., Incorporated, Phil-
 adelphia, Pa.
 McCabe, J. J., New York.
 Pennsylvania Iron Works Co., Philadelphia, Pa.
 Pratt & Whitney Co., Hartford, Conn.
 Prentiss Tool & Supply Co., New York.
 Q. & C. Co., Chicago, Ill.
 Schaffer, J. T., Mfg. Co., Rochester, N. Y.
 Watson & Stillman, New York.

MAGNESIA SECTIONS.
 Keasbey, Robt. A., New York.

MEDBERY INSULATION.
 Fiberite Co., Mechanicville, N. Y.

METAL SAWING MACHINES.
 Q. & C. Co., Chicago, Ill.

METERS, ELECTRIC.
 General Electric Co., Schenectady and New York.
 Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.
 Weston Electrical Instrument Co., Newark, N. J.

MICA.
 Munsell, Eugene, & Co., New York.
 Schoonmaker, A. O., New York.

MOTORS, ELECTRIC.
 General Electric Co., Schenectady and New York.
 Siemens & Halske Electric Co. of America, Chicago.
 Steel Motor Co., The, Cleveland, O.
 Walker Manufacturing Co., Cleveland, O.
 Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.
 Woodbridge & Turner Engineering Co., New York.

OVERHEAD TROLLEY EQUIPMENT.
 (See Line Material.)

OILS.
 (See Lubricants.)

PAINT, GRAPHITE.
 Dixon, Joseph, Crucible Co., Jersey City, N. J.

PAINTS, INSULATING.
 Johns, H. W., Manufacturing Co., New York.

PATENT SOLICITORS, ETC.
 Duvall, Edward S., Jr., Washington, D. C.

PHOSPHOR BRONZE.
 Phosphor Bronze Smelting Co., Philadelphia, Pa.

PINIONS.
 (See Gears and Pinions.)

PIPES.
 Morris, Tasker & Co., Inc., Philadelphia, Pa.

POLE BRACKETS.
 (See Brackets, Pole.)

POLES, METAL.
 Berlin Iron Bridge Co., East Berlin, Conn.
 Blackwell, Robert W., London, England.
 Crane Co., Chicago, Ill.

Creaghead Engineering Co., Cincinnati, O.
Electric Railway Equipment Co., Cincinnati, O.
Morris, Tasker & Co., Inc., Philadelphia, Pa.
New York Electrical Works, New York.
Nuttall, R. D., Co., Allegheny, Pa.
Ohio Brass Co., Mansfield, O.
Tufts, Walter B., New York.
Wightman, H. J., & Co., Scranton, Pa.
Wrought Iron Bridge Co., Canton, O.
Young Lock Nut Co., New York.

POLES, WOODEN.

Creaghead Engineering Co., Cincinnati, O.
Mueller, Wm., & Co., Chicago, Ill.
Nuttall, R. D., Co., Allegheny, Pa.
Ohio Brass Co., Mansfield, O.
Phillips, I. F., Chicago, Ill.
Tufts, Walter B., New York.
White-Crosby Co., Baltimore, Md.
Young Lock Nut Co., New York.

POLES, TROLLEY.

Kelsey Electric Railway Specialty Co., New Haven, Conn.
Mayer, Charles J., Philadelphia, Pa.
Pittsburgh Trolley Pole Co., Pittsburgh, Pa.
Simonds Mfg. Co., Pittsburgh, Pa.
Young Lock Nut Co., New York.

POPE LIGHT.

Consolidated Car Heating Co., Albany, N. Y.

PRESSES, HYDRAULIC WHEELS.

Dorner & Dutton Mfg. Co., Cleveland, O.
Fulton Truck & Foundry Co., Mansfield, O.
Prentiss Tool & Supply Co., New York.
Schaffer, J. T., Manufacturing Co., Rochester, N. Y.
Watson & Stillman, New York.

PULLEYS, SHAFTING, COUPLINGS, ETC.

Bethlehem Iron Co., South Bethlehem, Pa.
Prentiss Tool & Supply Co., New York.
Walker Manufacturing Co., The, Cleveland, O.

PULLEYS, CABLE.

Walker Manufacturing Co., The, Cleveland, O.
Wharton, Wm., Jr. & Co., Philadelphia, Pa.

PUMPS, STEAM.

Blake, Geo. F., Mfg. Co., New York.
Dean Brothers' Steam Pump Works, Indianapolis, Ind.
Deane Steam Pump Co., Holyoke, Mass.
Knowles Steam Pump Works, New York.
Southark Foundry & Machine Co., Philadelphia, Pa.
Walker Manufacturing Co., The, Cleveland, O.

PUNCHES, TICKET.

Woodman, R., Mfg. & Supply Co., Boston, Mass.

PURIFIERS, FEEDWATER.

Goubert Mfg. Co., The, New York.
Hoppe's Manufacturing Co., Springfield, O.
Webster, Warren, & Co., Camden, N. J.

RAIL BONDS.

(See Bonds, Rail.)

RAIL JOINTS.

(See Joints, Rail.)

RAILS.

Barbour, Stockwell Co., Cambridgeport, Mass.
Bethlehem Iron Co., South Bethlehem, Pa.
Cambria Iron Co., Philadelphia, Pa.
Dick, Kerr & Co., London, Eng.
Harrington, Robinson & Co., Boston, Mass.
Johnson Co., Lorain, O.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Samuel Frank, Philadelphia, Pa.
Steel Rail Supply Co., The, New York.
Wharton, Wm., Jr., & Co., Philadelphia, Pa.
Woodbridge & Turner Engineering Co., New York.
Young Lock Nut Co., New York.

RAILS, SECOND HAND.

Martin & Breckinridge, New York.
Samuel, Frank, Philadelphia, Pa.
Steel Rail Supply Co., New York.
Young Lock Nut Co., New York.

RAILWAY ADVERTISING.

Kissam, George, New York.

RATTAN FOR SWEEPERS.

Brooklyn Railway Supply Co., Stamford, Conn.
Sterling Supply & Mfg. Co., New York.
Wakefield Rattan Co., Boston, Mass.

RAW HIDE PINIONS.

Dorner & Dutton Manufacturing Co., Cleveland, O.
Groetzinger, A., & Sons, Allegheny, Pa.
Horsburgh & Scott, Cleveland, O.
New Process Raw Hide Co., Syracuse, N. Y.
Nuttall, R. D., Co., Allegheny, Pa.
Simonds Mfg. Co., Pittsburgh, Pa.
Steel Motor Co., The, Cleveland, O.

REGISTERS, FARE.

Brill, J. G., Co., Philadelphia, Pa.
Meaker Mfg. Co., North Chicago, Ill.
New Haven Car Register Co., New Haven, Conn.
New York Fare Register & Supplies Co., New York.
Railway Register Mfg. Co., New York.
Sterling Supply & Mfg. Co., New York.

REPAIR SHOP EQUIPMENT.

Box, Alfred, & Co., Philadelphia, Pa.
Harrington, Edwin, Son & Co., Philadelphia, Pa.
McCabe, J. J., New York.
Pratt & Whitney Co., Hartford, Conn.
Prentiss Tool & Supply Co., New York.
Q. & C. Co., Chicago, Ill.
Schaffer, J. T., Mfg. Co., Rochester, N. Y.
Watson & Stillman, New York.

RETURN SYSTEM, GRAVITY.

Holly Steam Engineering Co., Providence, R. I.

ROOFING.

Johns, H. W., Manufacturing Co., New York.

ROOFS, IRON AND STEEL.

Berlin Iron Bridge Co., East Berlin, Conn.
Penn Bridge Co., Beaver Falls, Pa.
Wrought Iron Bridge Co., Canton, O.

ROPE WHEELS.

Cresson, Geo. V., Co., Philadelphia, Pa.
Pennsylvania Iron Works Co., Philadelphia, Pa.
Philadelphia Engineering Works (Ltd.), Phila., Pa.

ROPE TRANSMISSION MACHINERY.

Pennsylvania Iron Works Co., Philadelphia, Pa.

ROPES, MANILLA.

Hunt, C. W., Co., New York.

ROPE, WIRE.

Roebling's, John A., Sons Co., Trenton, N. J.
Broderick & Bascom Rope Co., St. Louis, Mo.
Cradock, Geo., & Co., Wakefield, Eng.
Hazard Mfg. Co., Wilkesbarre, Pa.
Washburn & Moen Mfg. Co., Worcester, Mass.

SALT DISTRIBUTORS.

Brill, J. G., Co., Philadelphia, Pa.
DeWitt, E. F., & Co., Lansingburgh, N. Y.
Sweet, D. C., Springfield, Mass.

SAND BOXES.

Brill, J. G., Co., Philadelphia, Pa.
DeWitt, E. F., & Co., Lansingburgh, N. Y.
Fulton Truck & Foundry Co., Mansfield, O.
Peckham Motor Truck & Wheel Co., New York.
Sterling Supply & Manufacturing Co., New York.
Sweet, D. C., Springfield, Mass.

SASHES.

Sjoberg, J. P., & Co., New York.
Trimble, Jas. A., New York.

SEATING, CAR.

Brill, J. G., Co., Philadelphia, Pa.
Hale & Kilburn Mfg. Co., Philadelphia, New York, and Chicago.
Hartford Woven Wire Mattress Co., Hartford, Conn.

Joergensen, N., West Hoboken, N. J.

Jordan, Edw. B., Brooklyn, N. Y.
Scarritt Furniture Co., St. Louis, Mo.
Sjoberg, J. P., & Co., New York.
Stephenson, John, Co., Ltd., New York.
Trimble, Jas. A., New York.
Wakefield Rattan Co., Boston, Mass.

SEPARATORS.

Goubert Mfg. Co., New York. (Stratton Separator).
Webster, Warren, & Co., Camden, N. J.
Westinghouse, Church, Kerr & Co., New York, Pittsburgh, etc.

SHADES, CAR.

Burrowes, E. T., Co., Portland, Me.

SILICON BRONZE WIRE.

Roebling's, John A., Sons Co., Trenton, N. J.

SMOKE STACKS.

Clonbrock Steam Boiler Co., Brooklyn, N. Y.

SNOW PLOWS.

Brooklyn Railway Supply Co., Stamford, Conn.
Brill, J. G., Co., Philadelphia, Pa.

Dorner & Dutton Mfg. Co., Cleveland, O.
General Electric Co., Schenectady and New York, Massachusetts Car Co., Boston, Mass.
McGuire Manufacturing Co., Chicago, Ill.
Taunton Locomotive Mfg. Co., Taunton, Mass.

SOLDERING IRONS, ELECTRIC.

Cornell, Charles L., Hamilton, O.

SPECIAL WORK.

Barbour, Stockwell Co., Cambridgeport, Mass.
Cleveland Frog & Crossing Co., Cleveland, O.
Fulton Truck & Foundry Co., Mansfield, O.
Harrington, Robinson & Co., Boston, Mass.
Johnson Co., Johnstown, Pa.
Paige Iron Works, Chicago, Ill.
Weir Frog Co., Cincinnati, O.
Wharton, Wm., Jr., & Co., Philadelphia, Pa.

SPIKES AND FASTENINGS.

Harrington, Robinson & Co., Boston, Mass.
Mark Railway Equipment Co., Chicago, Ill.
Steel Rail Supply Co., The, New York.
Young Lock Nut Co., New York.

SPRINKLERS, TRACK AND ROAD.

Brill, J. G., Co., Philadelphia, Pa.

SPRINGS, CAR.

Brill, J. G., Co., Philadelphia, Pa.
Scott, Charles, Springs Co., Philadelphia, Pa.
Stephenson, John Co., Ltd., New York.

SPRINGS, TROLLEY.

Raymond Manufacturing Co., Corry, Pa.
Washburn & Moen Mfg. Co., Worcester, Mass.

STEAM PLANTS.

Bass Foundry & Machine Works, Fort Wayne, Ind.
Bates Machine Co., Joliet, Ill.
Corliss Steam Engine Co., Providence, R. I.
Electrical Installation Co., Chicago, Ill.
Field, C. J., Co., New York.
Grant, J. A., & Co., New York.
Holly Steam Engineering Co., Providence, R. I.
McIntosh, Seymour & Co., Auburn, N. Y.
Phoenix Iron Works Co., Meadville, Pa.
Pierce & Miller Engineering Co., New York.
Smith, Thos. G., Jr., Cincinnati, O.
Stern & Silverman, Philadelphia, Pa.
Walker Manufacturing Co., Cleveland, O.
Westinghouse, Church, Kerr & Co., New York, Pittsburgh, etc.
Wetherill, Robert, & Co., Chester, Pa.
Woodbridge & Turner Engineering Co., New York.

STEAM RIDING GALLERY.

Armitage-Herschell Co., No. Tonawanda, N. Y.

STEAM SUPPLY (UNDERGROUND.)

American District Steam Co., Lockport, N. Y.

STEEL STEPS.

Stanwood Manufacturing Co., Chicago, Ill.

STOKERS, MECHANICAL.

Westinghouse, Church, Kerr & Co., New York, Boston, etc.

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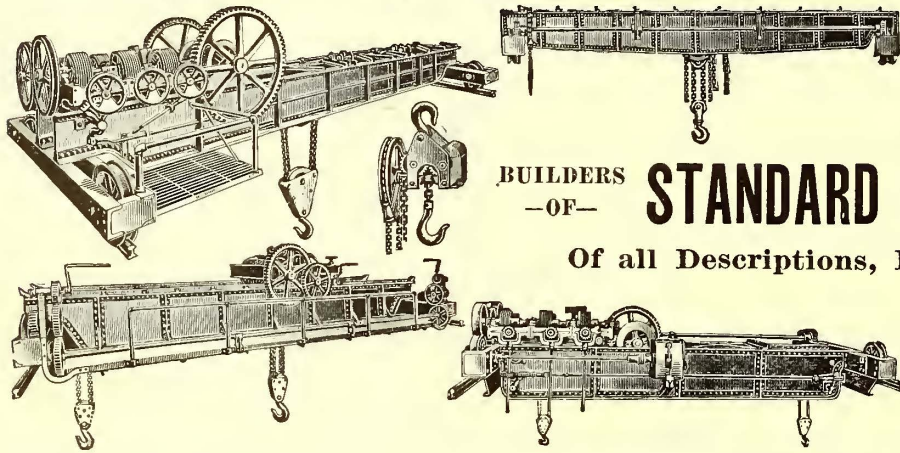
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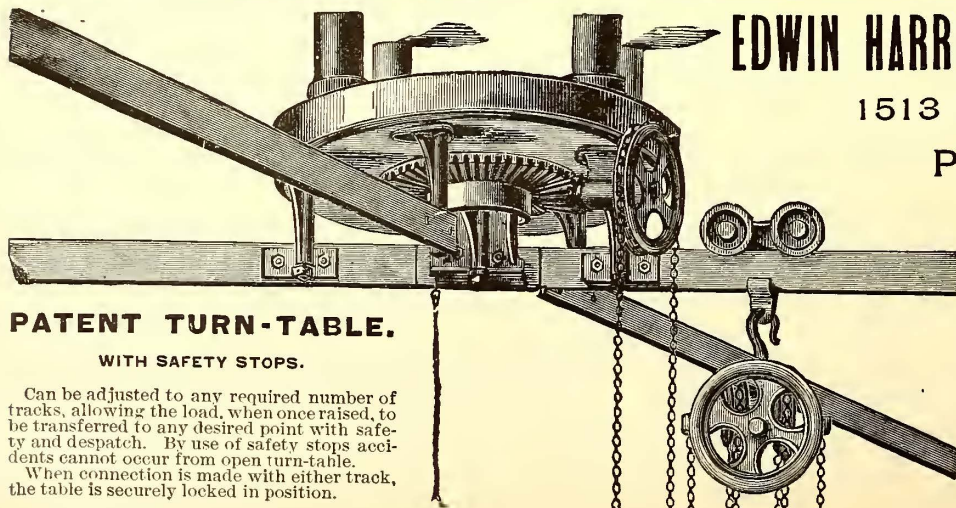
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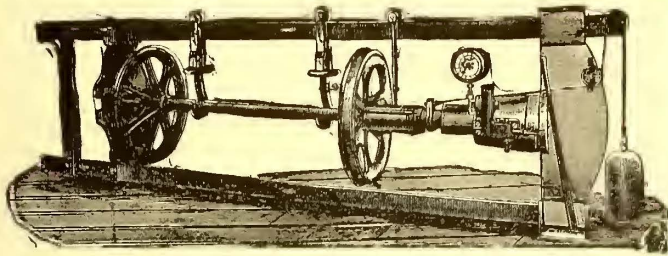
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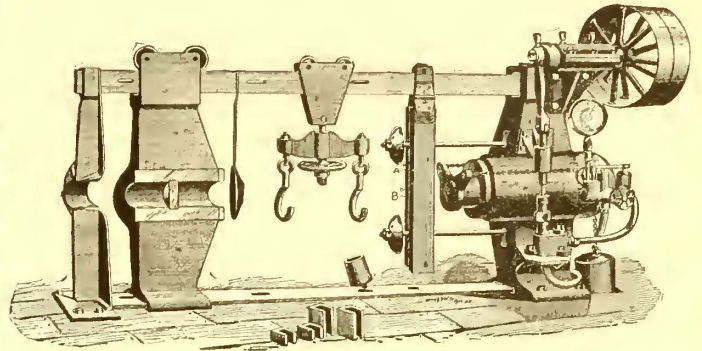
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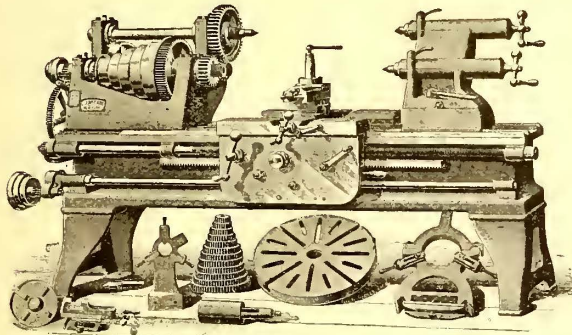
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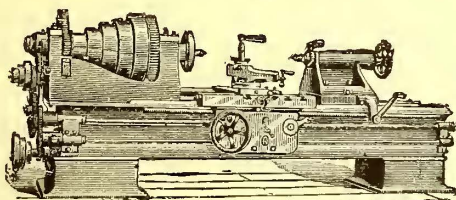
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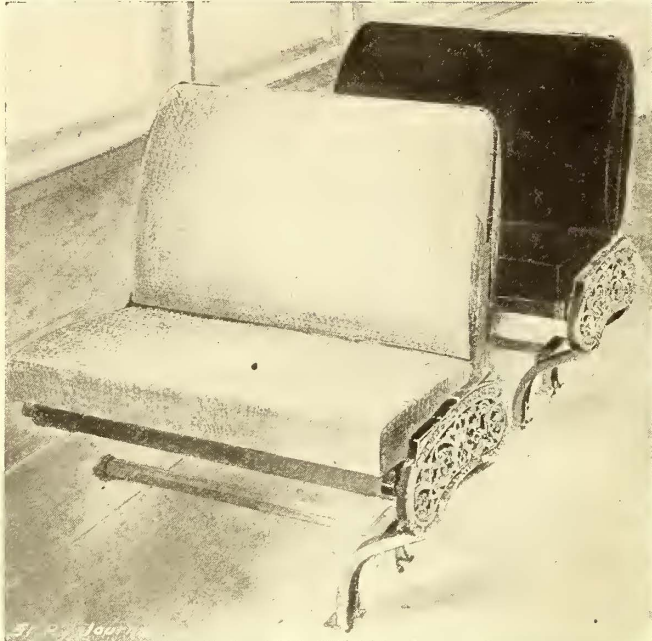
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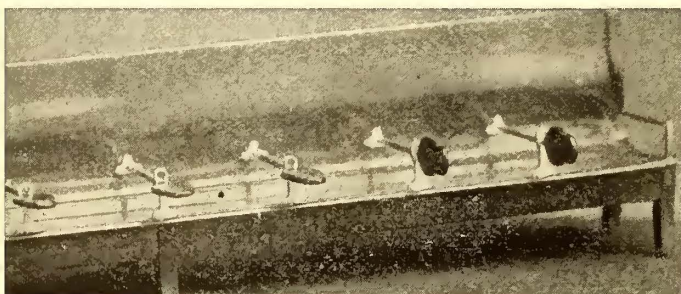


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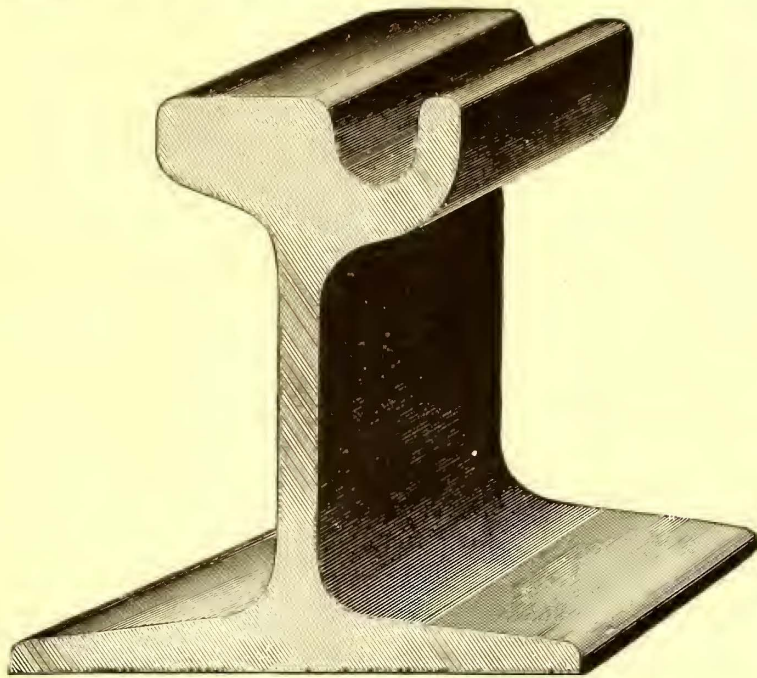
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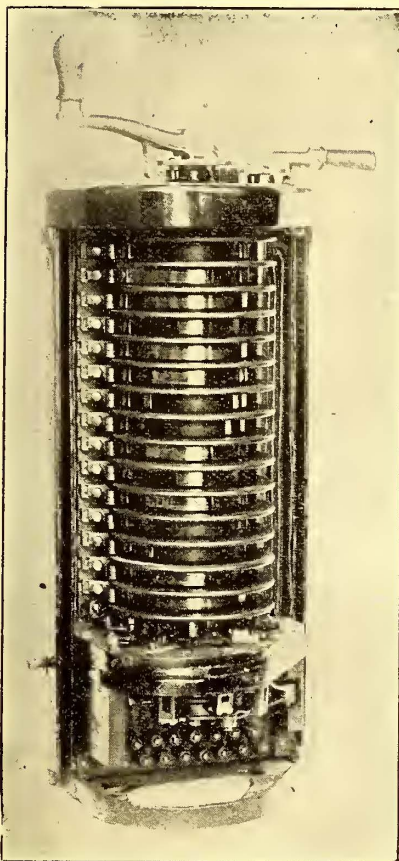
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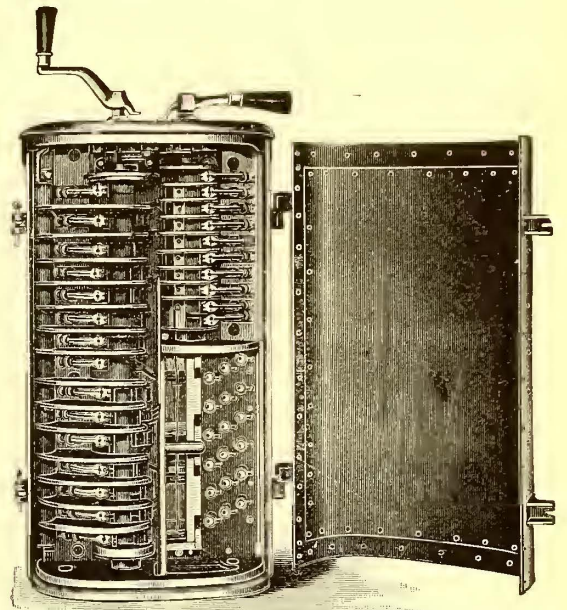
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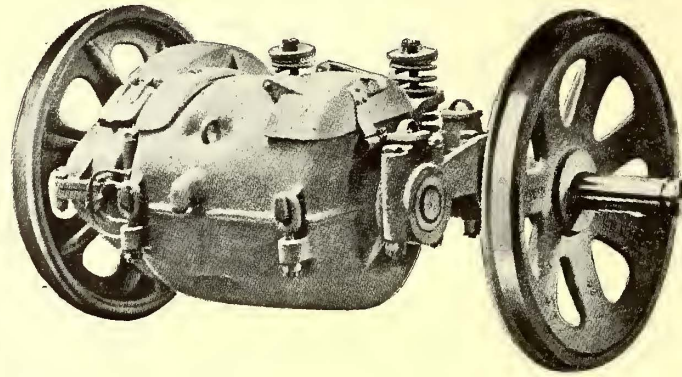
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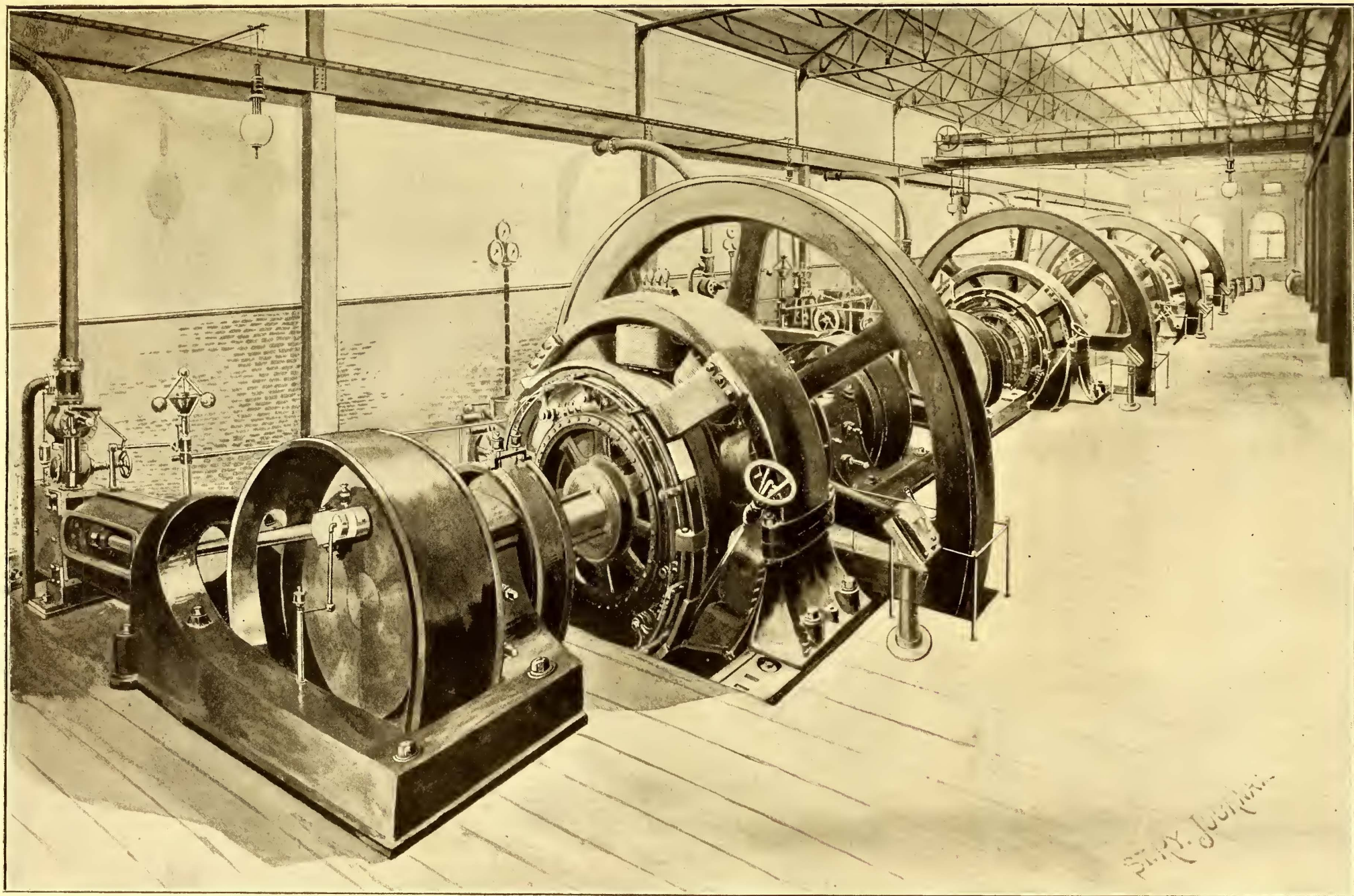
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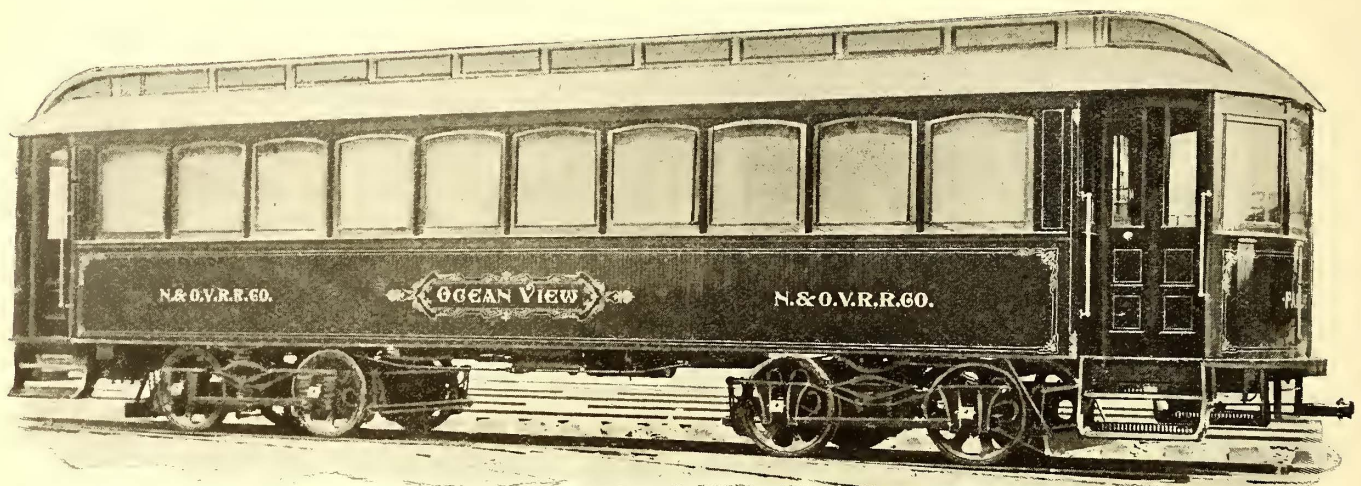
Interior view of Detroit Railway Power House, showing two 800 KW Generators in operation. This Power Station now contains two 800 and two 400 KW Direct Coupled Multipolar Generators. Two additional 800 KWs are now being built, which makes this the MOST COMPLETELY EQUIPPED POWER PLANT IN THE WORLD.

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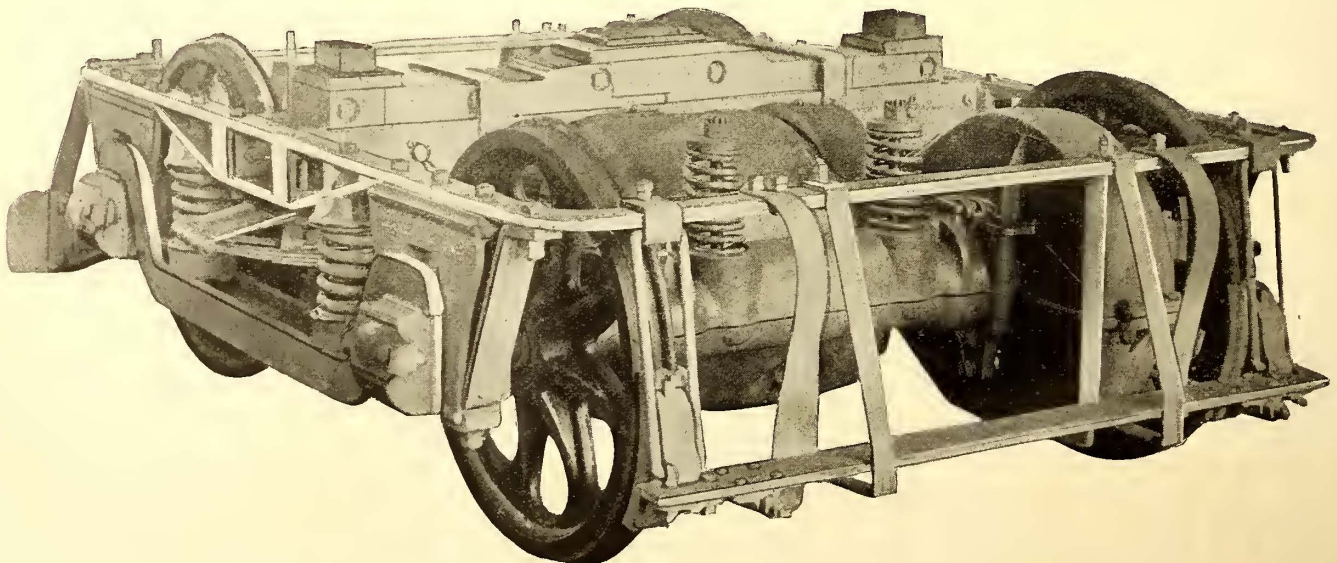
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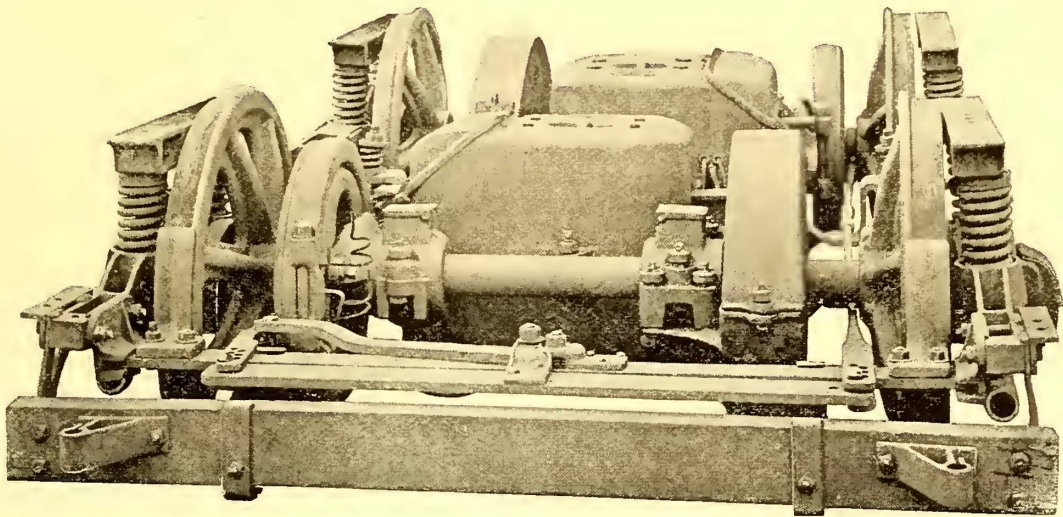
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Street Railway Journal.

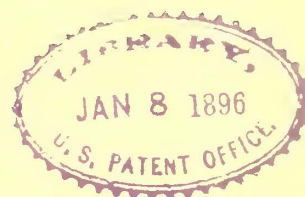
Vol. XII.

NEW YORK AND CHICAGO, JANUARY, 1896.

No. 1.

HISTORY OF THE LOVE CONDUIT.

BY ALBERT G. WHEELER.



PREFACE.

Many have asked me to give some facts in connection with the introduction of the Love Conduit system, to have it as a matter of history. I hesitate to do so, as any information furnished might appear a method of advertising this enterprise. I have tried to reduce the information to have it historical, but it is almost impossible to present it in any other way.

CHAPTER I.

The Love Electric Traction Company started its business as all new enterprises, viz., with its trials. Owing to the great prejudice caused by the failure of the many attempts in the same direction, it was impossible to enlist practical men to its support, and the capital obtained to make the first demonstration was from good business men, who had no experience in this line of business. Electrical engineers would not approve of its plans and street railway men were tired of experiments and not willing to risk any money or permit the trial of any new method of operation for their roads that might interfere with their traffic, so only an unimportant piece of road could be secured to demonstrate any new device, and this company had to furnish all of the money to install that.

At first some of the best people in Chicago were associated with this enterprise, but no sooner were their names made known in connection with it, when they were called upon by electrical experts and persuaded of its impracticability; so strong was this influence that several months were consumed in getting reports, and, I might say, every one was adverse to the system, except Prof. J. P. Barrett, of Chicago; and because his report was favorable, it was stated that he knew nothing about a railroad. These adverse reports caused so much uneasiness with the Board of Directors of this company that they all refused to be connected with the enterprise.

They claimed they could not afford to have their name connected with a failure, so these prominent men were permitted to withdraw from the company. After the withdrawal of these parties, it was a serious trial to interest any capital; all parties who were approached to join would call upon the former directors and find that they had withdrawn, because, upon investigation, they had found the enterprise could not be made a success. In addition to this obstacle it was then proposed by others to build a section of the Buda-Pesth system on the Twelfth Street line of the West Chicago Street Railway, and the newspapers thoroughly wrote that system up as one that was a success, and illustrated the construction by drawings.

This, with the trouble from the withdrawal of the practical parties first connected with the enterprise, made it seem almost impossible to associate any capital; but the money was finally obtained, and the whole of the year 1891 (up to Dec. 10th) was consumed in securing the necessary capital to start this company. It was of the greatest importance that a road should be finished during that winter.

An arrangement was made with the North Chicago Street Railway Company to demonstrate the system on their Fullerton Avenue loop, one and one-half (1 1-2) miles in length, which was operated with horses on the loop, the cars being taken into the city by the cable road as trailers, and the conduit electric system which was to take the place of the horses and be operated nineteen and one-half (19 1-2) hours per day.

The company, in order to get material in time to accomplish such a task, had to start out without perfected plans and have the work done by any parties who could make prompt delivery of the material. When the street was ready to be opened for construction, the thermometer registered 6° below zero. This did not prevent

the work going on, and the road was finally finished by the middle of February and ready for operation March 1, 1892.

This road was very crude. A great mistake was made in trying to economize; the yoke only provided for a conduit 9×15 ins., and as a continuous No. 0000 wire was used as a conductor, and the road having four curves, there was not to exceed three-eighths of an inch between the wire and the iron yoke on the curves, making it very difficult for any trolley wheel to travel on the wire around these curves without coming in contact with the iron yoke or shield between yokes. The slot rail was intended to be secured with a fastening, which was found, when put in use, impractical; a clamp was made to secure it to the yoke. This clamp was a clumsy affair, and it was fortunate it even held the rail at all.

The wire used for the conductor, being installed in cold weather at the minimum of contraction, caused considerable trouble when it expanded, as there was no room in the conduit to permit of a loose wire, and it caused methods to be provided for expansion which proved to be the most serious trouble in conduit construction. The power house was equipped with no duplicate parts, one engine, dynamo, etc., and any trouble there, meant delays on this road.

The trials experienced on this road were of great value to this company, and they were such that would not have occurred had the construction not been faulty; this experience demonstrated that the electric conduit problem was one to be handled solely by mechanics, as the difficulties supposed to exist by electrical experts were not due to such causes, but to imperfect mechanical details.

The North Chicago company operated this road with the Love Conduit system from March 1 to June 8, 1892, and, fortunately for this company, during this time, Chicago had the heaviest rainfalls ever experienced, which thoroughly convinced that company that electrical difficulties were easily overcome, if the system was properly installed. At that date, June 8, 1892, the North Chicago Railroad Company paid our company for the construction, and the settlement was very satisfactory to us, as the road was so faulty in its construction as to be almost worthless and such faults could not be overcome except with new construction. On this date we were given a letter indorsing the system, as follows:

Testimonial Chicago Road.

NORTH CHICAGO STREET RAILROAD COMPANY,
444 North Clark Street,

CHICAGO, June 8, 1892.

Love Electric Traction Company, Chicago, Ill.

DEAR SIR:—We are now trying the electric railroad which is built under the Love system, and would say that so far as the system itself is concerned it gives us perfect satisfaction, and, contrary to my fears, the insulation is not interfered with in any manner by moist-

ure. We have had some of the most severe rains in this vicinity during the past three or four months that I have ever experienced, so much so that at one time the cars ran through water on the track three to four inches deep, the trolley in the conduit running in the water, owing to the inability of the sewer connections to carry off the flood fast enough, but at no time was the road stopped from this cause.

Your construction, however, is not to be praised, and is not what it should be; but you are somewhat excusable for the reason that the road was laid in mid-winter and in a great hurry. With proper construction, I believe the Love system would be a great success.

As to the cost of operating, our experience has shown we can run our road with about half the number of cars required with horses, owing to the fact that we run much more rapidly, and consequently cover the distance faster. This enables us to economize greatly on the cost of motive power. This saving, however, has not been thoroughly developed on the line above mentioned, owing to the fact that the requirements of the road are very small; but we have demonstrated that we could operate five times the number of cars that we are now doing, with practically the same expense.

I have also to congratulate you on the fact that, so far as our experience goes, there has been a positive inability of the electric current electrifying anything which lies on the surface. We have had metallic grounds, owing to the displacement of insulators, and have been surprised that no evidence of the existence of electricity can be found from contact with the rails or anything above ground. I, therefore, feel that your claim that your system is free from danger to the public is fully sustained.

Yours truly,

CHARLES T. YERKES, Pres.

After this company received the above letter it never had an employee on that road, and it was operated another year and again indorsed by that company.

Letter One Year Later.

NORTH CHICAGO STREET RAILROAD COMPANY,
444 North Clark Street,
CHICAGO, June 6, 1893.

Love Electric Traction Company, Chicago, Ill.

GENTLEMEN:—Referring to your inquiry of June 5th, relative to my opinion of your system, I take pleasure in saying that I find no reason to change the opinion I gave under date June 8th, 1892, wherein I stated that, with proper construction, I believe the Love system would be a great success.

Yours truly,

CHARLES T. YERKES, President.

NOTE.

The writer never saw this road after the summer of 1892, considering it impossible without new construction of the conduit to ever demonstrate anything with that installation, devoted his time to securing another road to equip and make the demonstration on that. The absolute abandonment of this road by this company caused considerable dissatisfaction among the stockholders because of its faulty construction, and most all of the stock of its present stockholders had to be bought back before any further progress could be made. The

North Chicago Street Railway Company continued to operate this road until the fall of 1894, and it had some trouble but it was largely due to the fact that there was no duplicate plant in the power house and any repairs to be done caused delays. I mention the fact of this road's operation until the fall of 1894 to show that with all its faults the North Chicago Street Railway kept it in operation two years and a half, and as many of the former stockholders of this company were inclined to blame the railroad company, believing they attempted to destroy the system, I feel it my duty to state that every one connected with the management of the North Chicago Railroad did everything in their power to keep that road in successful operation; it was an important loop and its operation showed a great saving over horse power. The operation of that road with such construction conclusively demonstrates what Mr. Yerkes stated in his letters of June, 1892, and June, 1893: "With proper construction I believe the Love system would be a great success."

CHAPTER II.

When the North Chicago Street Railroad paid this company for the Fullerton Avenue loop it was absolutely necessary to install another road as soon as possible. Every effort was made, but the street railway companies would not permit a road in operation to be installed until they were assured there would be no interruption to their traffic, and it was August, 1892, before a second contract could be secured, which was to build one and one-half miles of double track for the Rock Creek Railway Company, of Washington, D. C.

This contract could only be secured by giving a bond to guarantee:

First.—It can be kept in operation 365 days in the year, with less delay than any system now in use.

Second.—It is absolutely impossible for any one to be injured by the electric current.

Third.—It requires no skilled labor to operate.

Fourth.—Cost of maintenance as cheap as any known power.

Fifth.—Does not increase the cost of insurance along the line of the road.

As soon as it was known that this company was to install its system on the Rock Creek Railway the officers of that road were urged not to allow it to be installed; they concluded to more fully investigate, which caused several months' delay, and notwithstanding their investigation was far from satisfactory they stood by their contract (see note at bottom of page), and construction was started December 5, 1892. This company, under such guarantee, was compelled to install a conduit system to run smoothly from the start, and by March 1, 1893, the power house and the first section of the road were finished and put in operation. The balance was completed and the whole road operated by April 1, 1893, and was successful from the start.

That the road gave the Rock Creek Railway Company perfect satisfaction will be seen by the following letters, especially the one given after one year's operation by Mr. Newlands, President of the Company, endorsing our claims made under the guarantee.

ROCK CREEK RAILWAY COMPANY,

1324 F Street, Northwest,

WASHINGTON, D. C., April 27, 1893.

Love Electric Traction Company, Chicago, Ill.

GENTLEMEN:—Connecting with our overhead trolley line, extending from Eighteenth Street and Boundary in the City of Washington, six and a half miles to Chevy Chase, we have had constructed within the city limits, U Street from Eighteenth to Seventh, a double track line on the Love conduit plan. The construction of this conduit line was commenced December 10, 1892, and on March 3d cars were running from Eighteenth to Fourteenth Street. The line was completed to Seventh Street April 15, and the whole road was immediately put in operation, and has been operated continuously since, and, so far, this system seems to be quite as successful as with the wires overhead.

At Fourteenth Street a double track cable road is crossed without difficulty. At Eighteenth and Boundary the trolleys are changed, the underground trolley being dropped, so as the same cars run on the two systems, the time required for the change being but a few seconds. This change is made at the end of a sharp curve and on a heavy grade. The only apparent difference so far in the running of cars on the two systems is, there seems to be less resistance, and therefore less power required, on the underground than on the overhead.

Yours very truly,

H. CLAUDE, Superintendent.

ROCK CREEK ELECTRIC RAILWAY COMPANY,

WASHINGTON, D. C., July 26, 1893.

Love Electric Traction Company, Washington, D. C.

GENTLEMEN:—In reply to your inquiry asking for our experience in operating your system for the past five

Remarks by Hon. Francis G. Newlands before the Committee of the House of Representatives for the District of Columbia.

MR. NEWLANDS: Mr. Chairman and gentlemen of the committee, the Rock Creek road, as you know, is now operating. It runs from 7th and U Streets, along U to 18th and the Boundary; then along Connecticut Avenue to the District line, and then beyond that, two miles, to the southern extension of the Baltimore & Ohio road. In building that road we found that we were compelled to use either horses or cable power or the underground electric system along U Street. Congress, in granting the franchise, was unwilling to allow the overhead system within the Boundary. It was a matter of very serious consideration with us; the traffic along U Street was hardly sufficient to warrant a cable line, and, besides that, I was satisfied that eventually the electric systems would take the place of the cable systems throughout the country. Horse power, of course, was not sufficiently fast, and we were forbidden the overhead system. We were compelled, therefore, to experiment with the underground system. We were assured by everybody who was connected with electricity that the underground system would be a failure. The representatives of the very large electric companies assured us of that fact, and the representatives of the various electric roads throughout the country also assured us of that fact. Then the Love system was submitted to us. They were at that time operating a road in Chicago, which had been very imperfectly constructed and was not working satisfactorily. I had the matter looked into, and my experts informed me that the defects were simply due to the mechanical construction of the road, and they thought these defects could be remedied. So we concluded, though it involved a great expense—an expense of about \$145,000 for a little over a mile and one-half of double track, including power house and real estate—to experiment with this underground system, feeling assured that if we made a success Congress would permit us to afterward extend our system down to some central point by the underground system.

We have tried the Love system now upon U Street for over a year. We have tried it in all kinds of weather—rain and flood and snow—and it has worked to our utmost satisfaction.

months, I am pleased to say that I consider it a perfect success, and from tests made by leading electrical experts and my own observation, I find I am justified in my opinion given April 27, 1893.

Yours truly,

HERBERT CLAUDE, Superintendent.

ROCK CREEK RAILWAY COMPANY,

Office, 1324 F Street, Northwest,

WASHINGTON, D. C., February 15, 1894.

Albert G. Wheeler, Esq., General Manager Love Electric Traction Company.

DEAR SIR:—I take pleasure in saying in answer to your inquiry as to our opinion of the Love Electric Conduit System which has been in operation on our U Street line, that it has given us entire satisfaction; and our experience justifies me in saying that the claims originally made by your company are correct, viz.:

First.—It can be kept in operation 365 days in the year with less delay than any system now in use.

Second.—It is absolutely impossible for any one to be injured by the electric current.

Third.—It requires no skilled labor to operate it.

Fourth.—Cost of maintenance as cheap as any known power.

Fifth.—Does not increase the cost of insurance along the line of the road.

Operating as we have during the last year both the overhead trolley and your conduit system, I feel fully convinced that your system has solved the problem of a motor power for street railroads, and the commercial advantages it has over the overhead trolley will justify the trifling additional cost of construction.

Very truly yours,

(Signed) FRANCIS G. NEWLANDS, President.

CHAPTER III.

After the completion of this road in Washington, this company, finding it could not secure any contracts to install any complete system without giving bonds to secure the street railway company, and to give a bond to construct a conduit electric system on another company's franchise, in case of any disagreement, afforded no proper protection for the capital invested. An arrangement was entered into with certain capitalists to take the bonds of a new road if the legislation could be secured. A bill was introduced into the Senate and the House of Representatives for what was known as the "Washington Traction Company," it being the purpose of this company to try and secure such franchise and to build an electric conduit system upon a road it controlled, and thus properly secure the capital invested. The Washington Traction Company franchise was to include the right to furnish power and as the trolley roads terminate at the boundary of the city these cars were to enter the city over the Traction Company's tracks to reach all central points. Thus the Washington Traction Company was to install an electric conduit system, and have connection at the boundary of the city with all the overhead trolley lines and have their cars run into the city

under a trackage arrangement instead of each company having separate tracks. By doing so, it would enable this company to install a plant, operating a large number of cars, and settle every question as to the practicability of an electric conduit system. The feature to build one trunk line, to clear the cars of all the street railways, and thus save the city from being gridironed by separate tracks of all the lines, met with great favor, and was approved generally by the committees of both Houses of Congress. The Metropolitan road of Washington had their bill up before Congress, and their road touching all central points of the city, as well as the overhead lines at the Boundary, Congress thought best not to permit any new track construction, but to compromise. Legislation was brought about, which forced this feature of all cars of the suburban lines entering the city over one set of tracks, the interchange of trackage with all roads carrying passengers over both for one fare without change of cars, and compelling the Metropolitan road to put in an underground electric system which would permit the suburban trolley cars to use their tracks.

While this legislation was very beneficial to the city's interests, it was severe for the Metropolitan road, and they were very bitter against our company, feeling that we had interfered with their legislation. They would not deal with us. The law was compulsory, they were obliged to construct a conduit electric system, and they installed their road with the improved Buda-Pesth system built under the General Electric Company's patents. Thus the labor of this company was lost, as far as the installing of any new line, while the Rock Creek company, which had a separate bill in Congress for the extension into the city of their line, with our conduit, was laid aside, because they were given an entrance over the Metropolitan company's tracks.

No other efforts had been made to secure any new work, believing that either the Rock Creek, Washington Traction Company, or the Metropolitan company, if such legislation was secured, would use our system, and there was no inclination of any other road to use an electric conduit system, except the Metropolitan Traction Company, of New York, who required a satisfactory guarantee. At that time we felt that we had demonstrated the conduit electric system sufficiently, and as no street railway could get a cable or overhead trolley guaranteed to them we could not afford to do so on another company's tracks, and, therefore, this company never made any proposition to install its conduit system for the Metropolitan Traction Company, of New York. The General Electric Company, under a guarantee, installed the improved Buda-Pesth system.

CHAPTER IV.

The successful operation of the Washington road did not remove the obstacles which prevented further installation of this conduit system.

This company determined it was for its best interests to thoroughly perfect its conduit system before any effort was made to do a general business and every improvement was put into practical use, so no new departure would be looked upon as experimental. It also being important that any company with new devices dependent upon patents should be fully prepared to protect its interests, a legal office was opened in Washington, and the most thorough searches were made, securing all necessary data to be prepared for such emergency.

This office proved, to the satisfaction of this company, that the real ownership of the Buda-Pesth system was in the General Electric Company, and while the two systems (see note) were separate and distinct it would be better for the general interests of the street railways and the General Electric and this company that there should be some business understanding between the General Electric and this company, which would protect the roads using either system against patent litigation.

CHAPTER V.

April 1, 1895, with two years' successful operation of its electric conduit system, this company was prepared to open up for a general business. It was of the utmost importance that the organization should be under the direction of competent and experienced business men, and the engineering department in charge of a most competent engineer. The headquarters of the company was moved to New York, the engineering department placed in the hands of Major G. W. McNulty, and the contract was taken to build the Amsterdam Avenue extension of the Third Avenue Railroad Company in this city. A trusteeship was created through Mr. H. L. Horton, who made a thorough examination of the company's affairs, and the direction of the company

NOTE.—The word system is used by every one who has some device which only represents a small part of the equipment for a street railway. With the Love conduit or Buda Pesth it can be properly used, for they cover everything complete for a conduit electric road.

was placed in the hands of the following Board of Directors:

Gen. G. M. Dodge.

Gen. Thos. L. James, president Lincoln National Bank, city.

J. Edward Simmons, president Fourth National Bank, city.

S. Endicott Peabody, president American Loan & Trust Company, Boston.

Samuel Carr, executor Ames estate, Boston.

H. Walter Webb, third vice-president New York Central Railroad, city.

G. W. McNulty, engineering director.

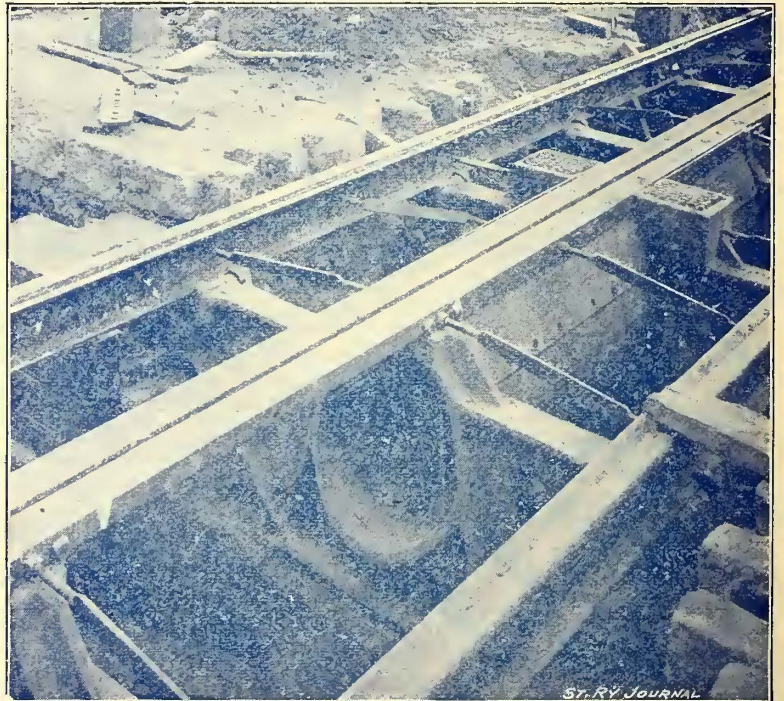
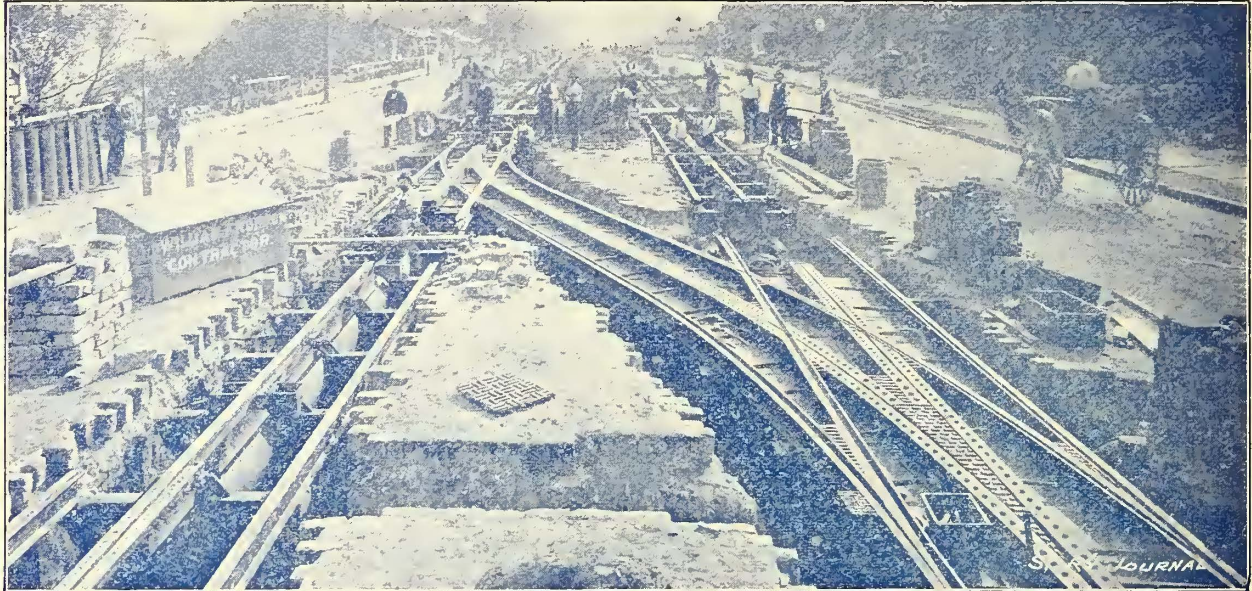
Albert G. Wheeler.

The policy of the company is based upon the fact that it is more important to the interests of this company that its conduit system should give perfect satisfaction than it is to the railroad companies themselves, and where an electric conduit system was to be installed it should be done under the specifications, plans and supervision of this company, otherwise each road would have changes made in its construction which might not prove satisfactory, and the electric conduit be condemned.

The officers of this company fully realize that no motor power has any value to a street railway company unless it can be built and operated 365 days in the year with the ordinary labor they have to employ, and the whole effort of this company has been to come on the market with such a system thoroughly developed, having only the best officers to handle its affairs, to have an engineering department consisting of the most competent and experienced railway engineers, and to secure the railways against any annoyance of patent litigation. It does not propose to do any work that will not be a credit to the street railway company which adopts it, and to conclusively show that it not only has a successful conduit system, but also is competent to properly install the same.

Railway Conduit Electric Systems.

*EVERYTHING IN PRACTICAL
OPERATION.*



This Company is prepared to submit estimates of cost and to construct and thoroughly equip either the **LOVE CONDUIT OR IMPROVED BUDA-PESTH SYSTEMS** license roads to operate under such patents and protect against costs of patent litigation. It has in its Engineering Department the best railway, mechanical and electrical engineers.

CORRESPONDENCE SOLICITED.

LOVE ELECTRIC TRACTION COMPANY,

GEN. G. M. DODGE, President.

ALBERT G. WHEELER, Vice-Pres. and Gen'l Mgr.

45 Broadway, New York.

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ITALIEN: Mailand, Florenz, Rom, Varese.

SERBIEN: Belgrad.

SPANIEN: Oporto.

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Cie Fese pour l'exploitation des procédés THOMSON-HOUSTON, 27 Rue de Londres, Paris.

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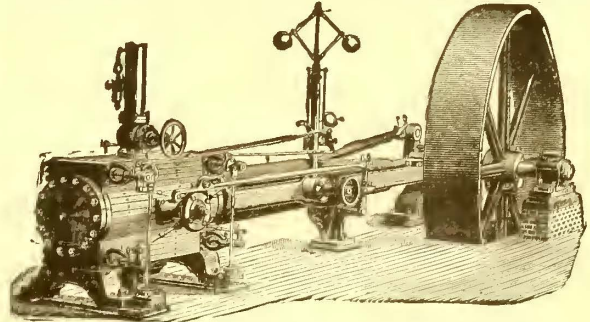
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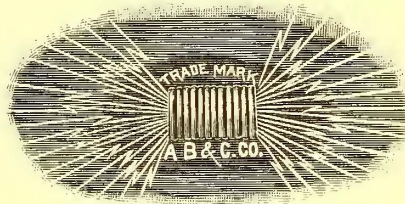
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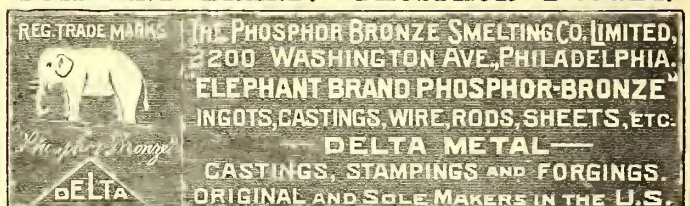
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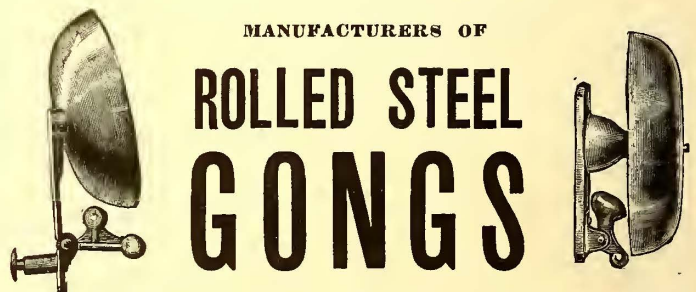


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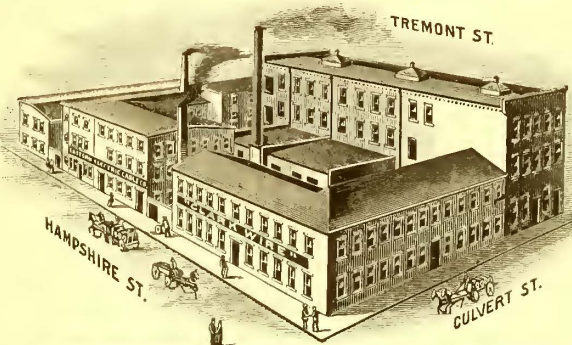
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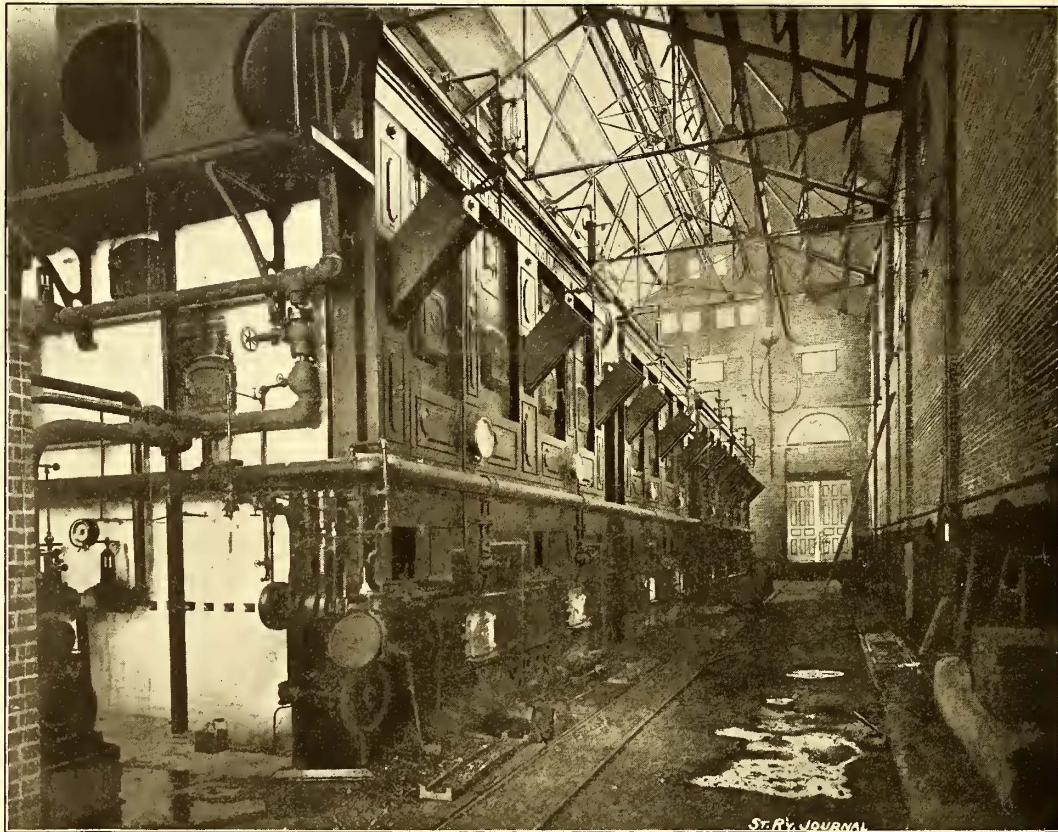
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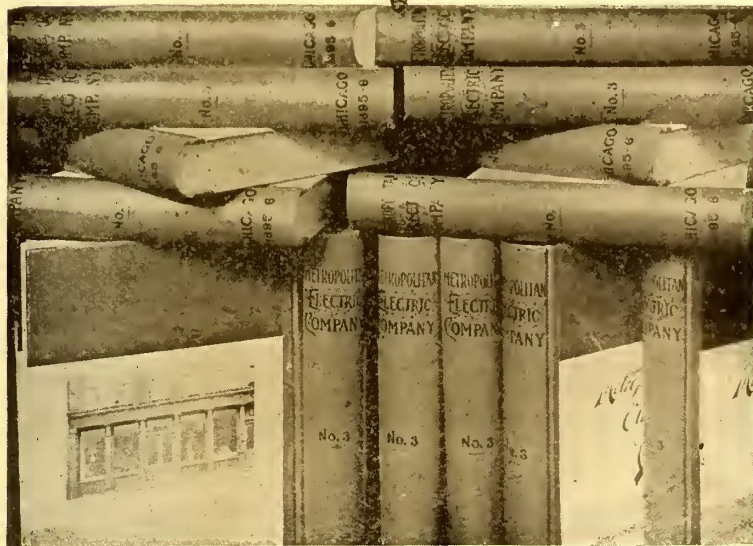
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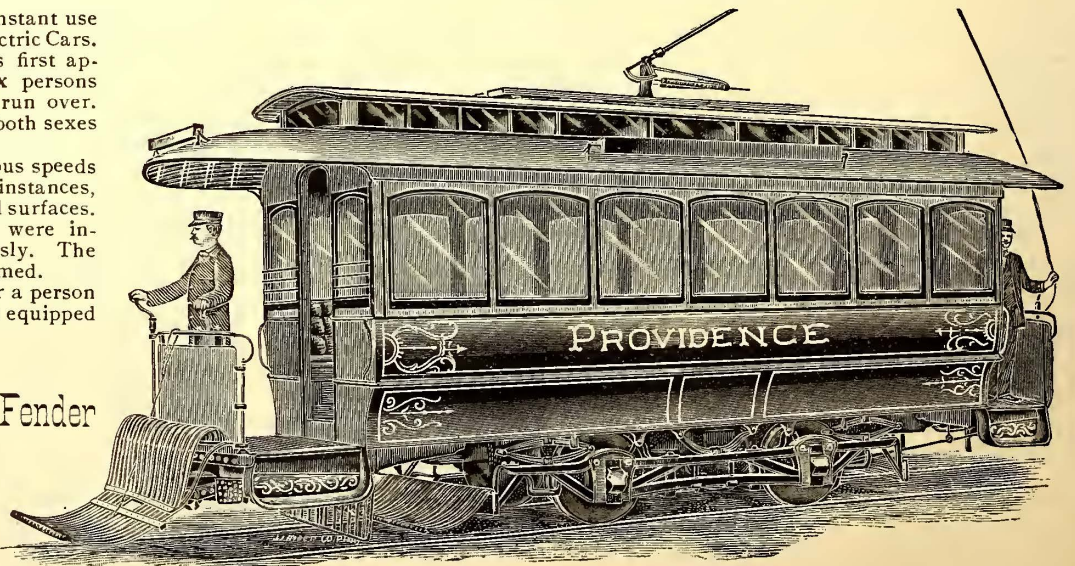
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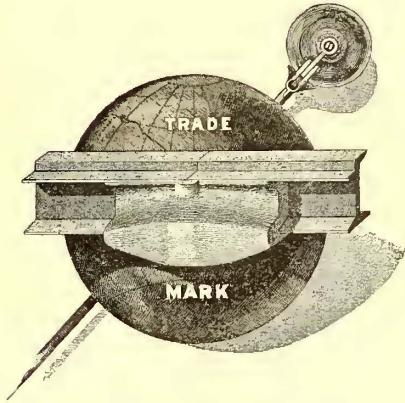
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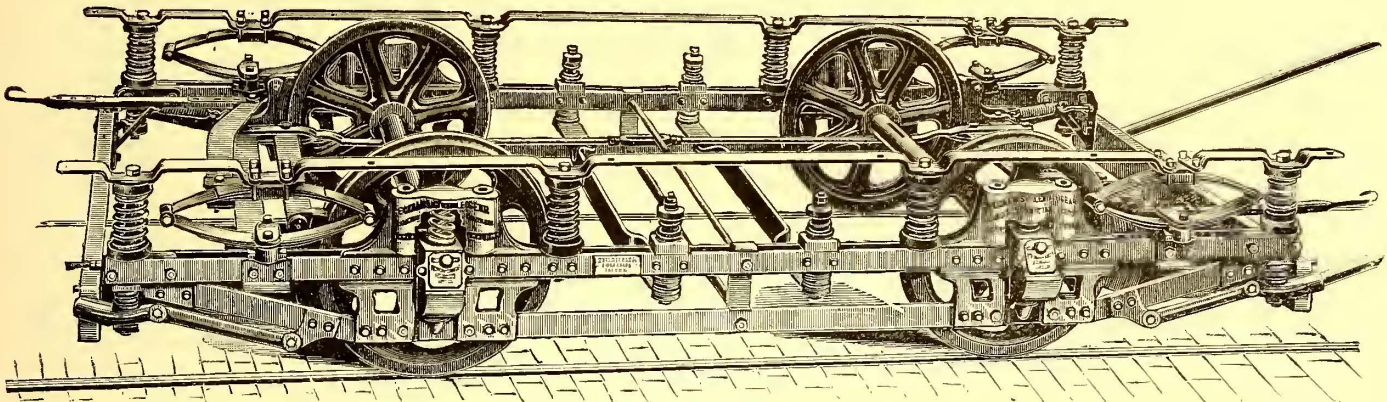
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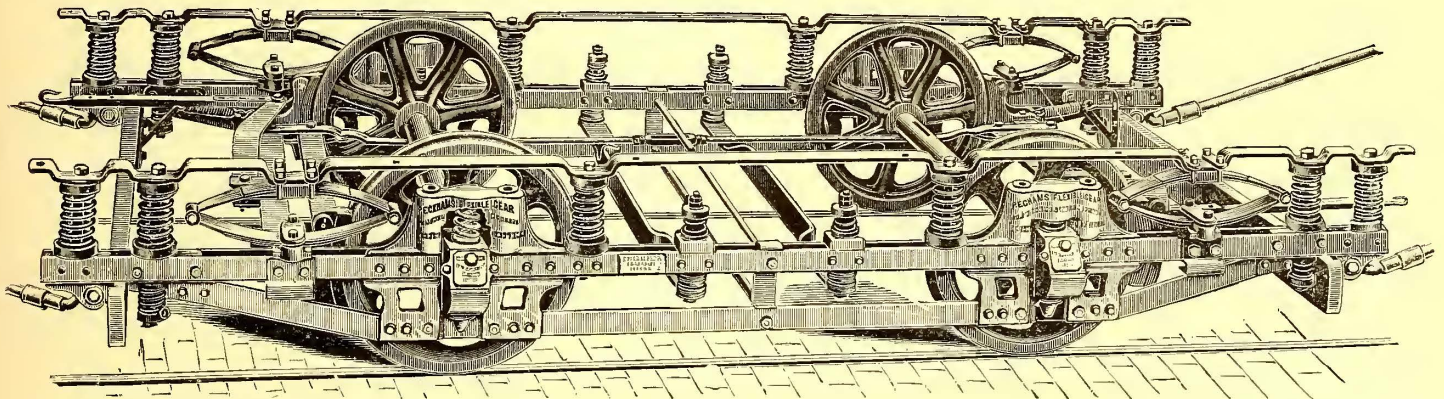
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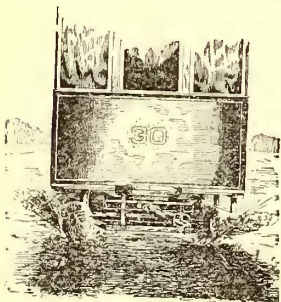
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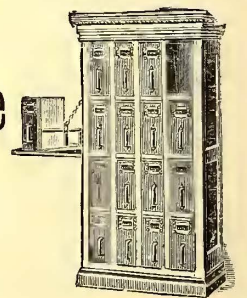
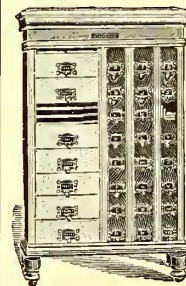
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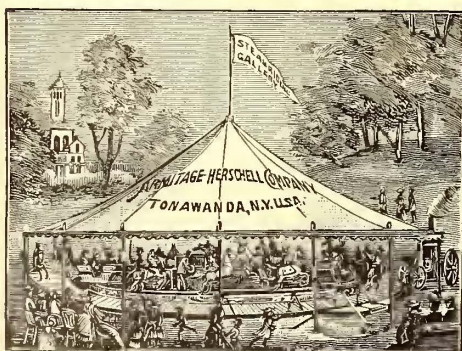
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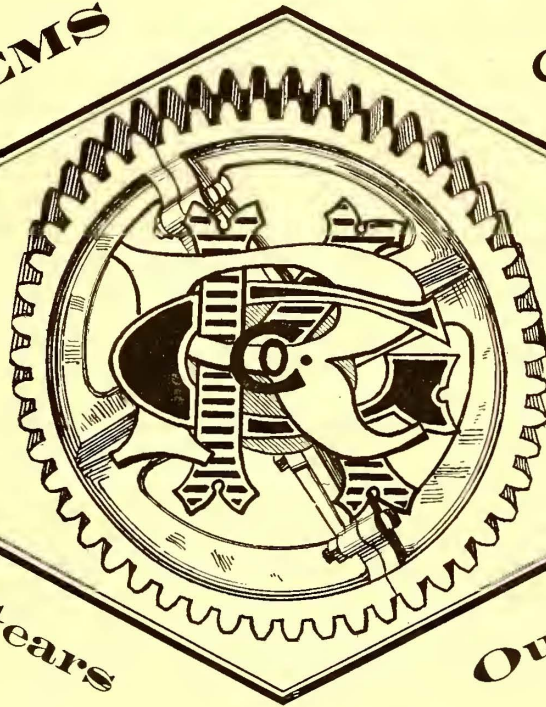
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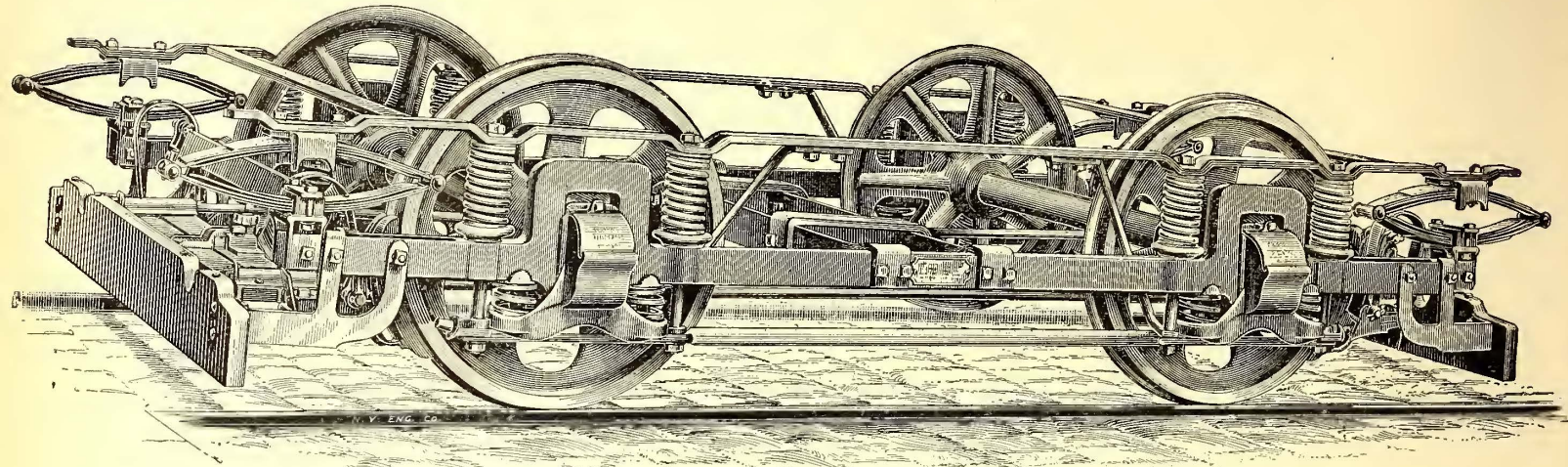
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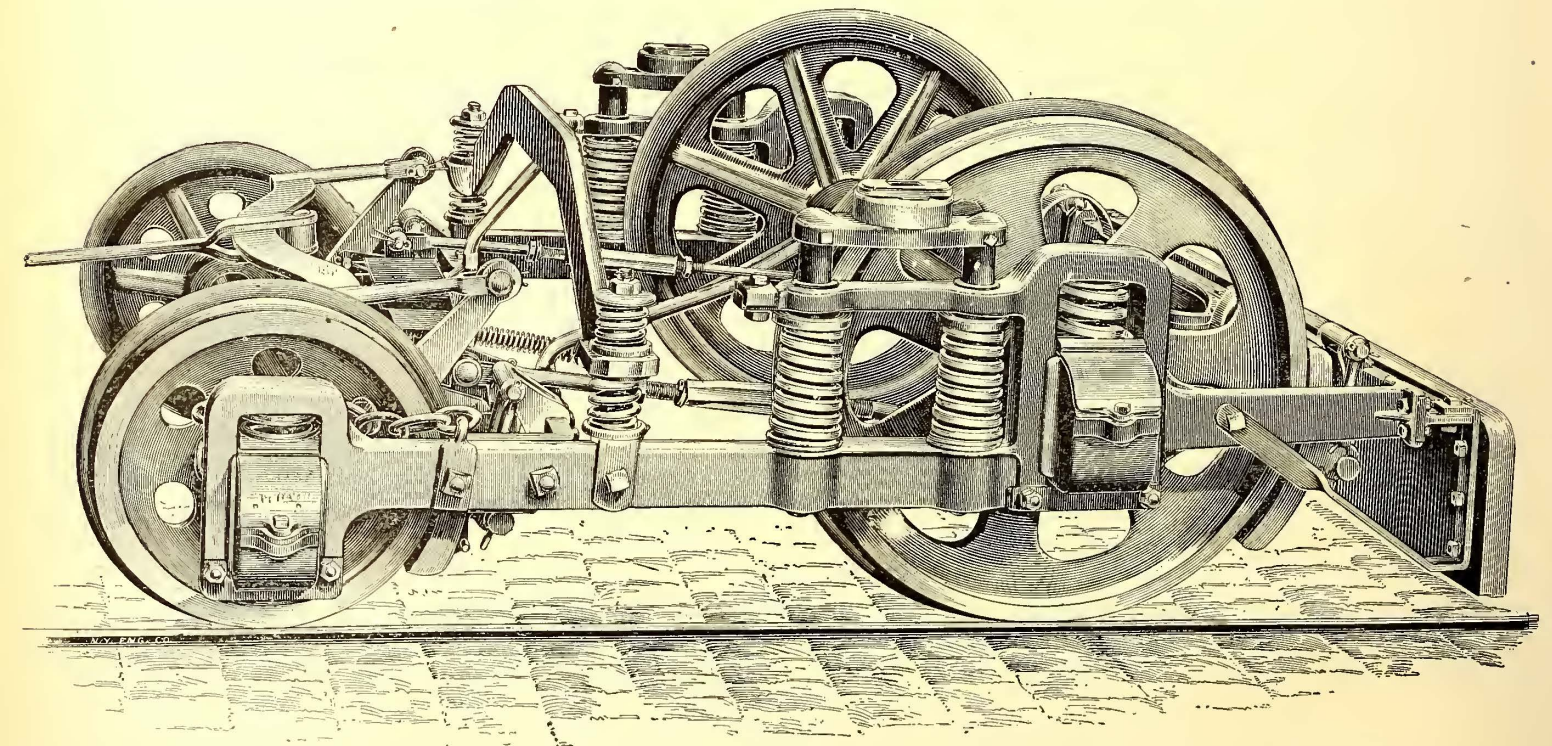


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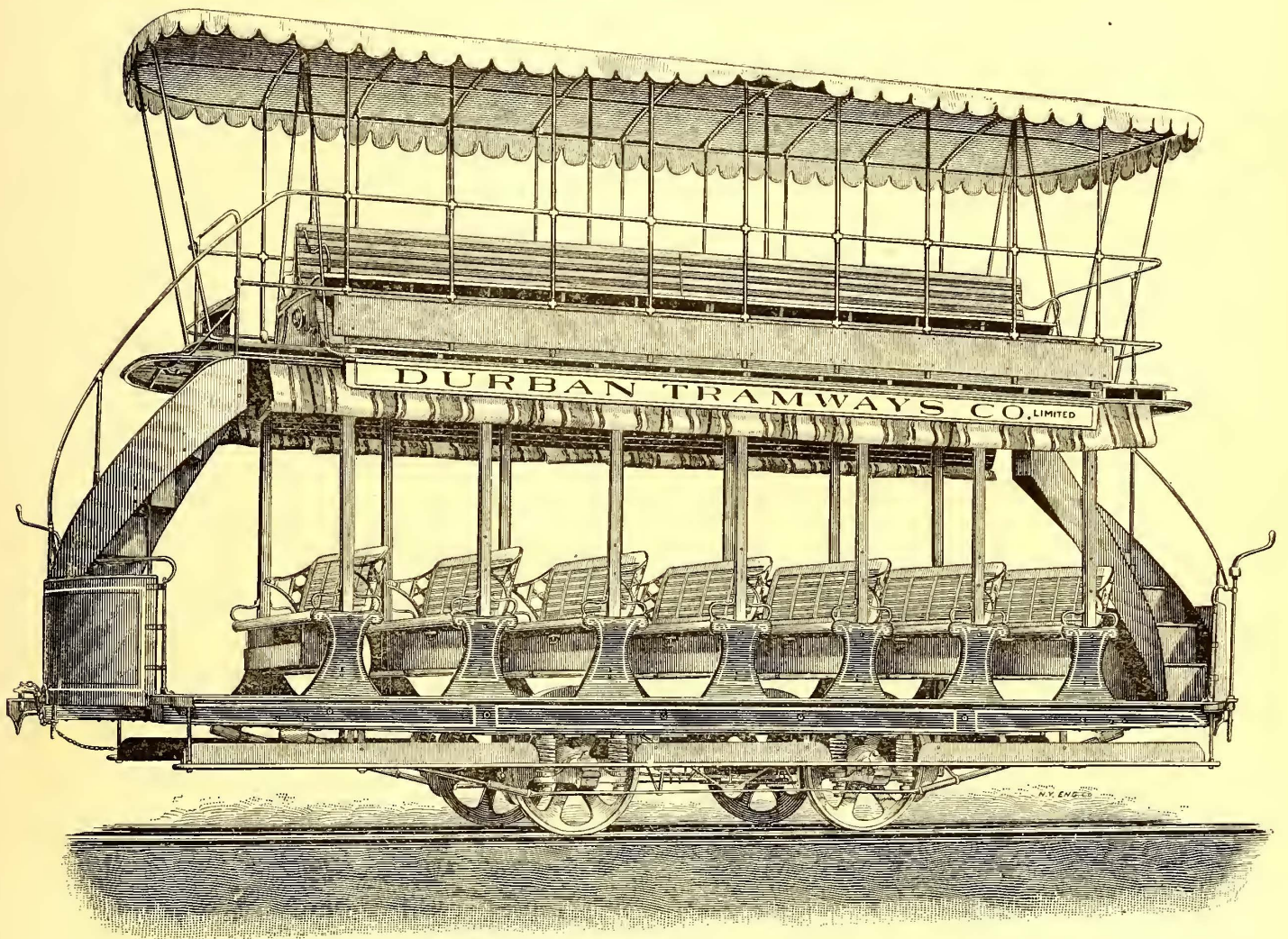
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Henry C. Moore, Esq., Pres., Trenton Passenger Ry. Co., Trenton, N. J.

DEAR SIR:

I expect shortly to have occasion to purchase some trucks, and am considering the Peckham and Brill trucks. I presume you are aware of the controversy that has been going on regarding repairs of these two types of trucks which were used on the People's Passenger Railway Co. of Philadelphia, and knowing you were the president of the road at the time Mr. McIntyre exchanged these trucks for the Peckham trucks, I am anxious to learn whether Mr. Shelmerdine has stated the facts correctly in his published letter as to the relative working of the Brill *vs.* Peckham trucks, his statement having been disputed to me. I write to ask if you can throw any light on the matter, as the affair transpired during your term of office in that company.

Thanking you in advance I am,

Yours very truly,

JOHN GRAHAM, Gen'l Mgr.

MR. MOORE'S REPLY.

THE TRENTON PASSENGER RAILWAY CO. (CONSOLIDATED),
Trenton, N. J., Nov. 21, 1895.

*Mr. John Graham, Pres. & Gen'l Mgr., Wilkes-Barre & Wyoming Valley
R. R., Wilkes-Barre, Pa.*

MY DEAR SIR:

I am in receipt of your favor of Nov. 16th, stating your intention to purchase some additional trucks, and that you are undecided whether they shall be Peckham or Brill.

I have no desire to take any part in the controversy which is, at the present time, going on between these two companies, but as you have asked my opinion as to the relative merits of the trucks, in justice to the Brill truck, I must state that my experience has been very satisfactory, and I do not hesitate to recommend them. As to the question of repairs on the Brill trucks, I did not purchase any repair parts from the Brill Company nor were any repairs made to the trucks other than the adjustment of brakes caused by the wear of the shoes and the repair of the pilots, which was caused by the ordinary operation of the road.

As to the Peckham trucks, there were several changes made in the mechanism of the trucks in order to hold up the ends of the cars.

Hoping this information will answer your purpose, I am,

Yours very truly,

(Signed) HENRY C. MOORE, President.

LETTERS ESTABLISHING BRILL'S POSITION RELATIVE TO PEOPLE'S
TRACTION CO.'S TRUCKS.

MR. GRAHAM'S DECISION.

THE WILKES-BARRE & WYOMING VALLEY TRACTION COMPANY,

Wilkes-Barre, Pa., Nov. 23, 1895.

J. G. Brill Company, Philadelphia, Pa.,

Dear Sirs:

You may enter my order for twenty No. 21 C trucks, 7 ft. wheel base, to suit No. 38 motors, 4" axles, our standard wheels, at price as quoted in your letter of the 9th inst. It will no doubt interest you to know of my reasons for placing with you this order, and to explain I send you a copy of the letter I sent to Mr. Moore, former President of the People's Passenger Railway Company of Philadelphia, and his reply.

Referring to the truck order herewith I want them delivered surely by January 20th.

Yours truly,

(Signed) JOHN GRAHAM,

General Manager.

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The Cincinnati Newport & Covington Street-Railroad Company, ordering more convertible cars, inquires :

“Can't the doors in convertible cars work like those of Accelerators, so that we can load and unload better?”

In other words: After using door-at-the-steps two years, they want no door-in-the-middles, winter or summer.

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For one good reason for door-in-the-middle street-cars.

Here are six bad ones :

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- (3) passengers don't fall off ;
- (4) less rattle ;
- (5) less draft ;
- (6) more seat.

Not one of 'em good—nothing in any of 'em.

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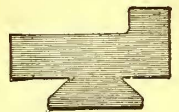
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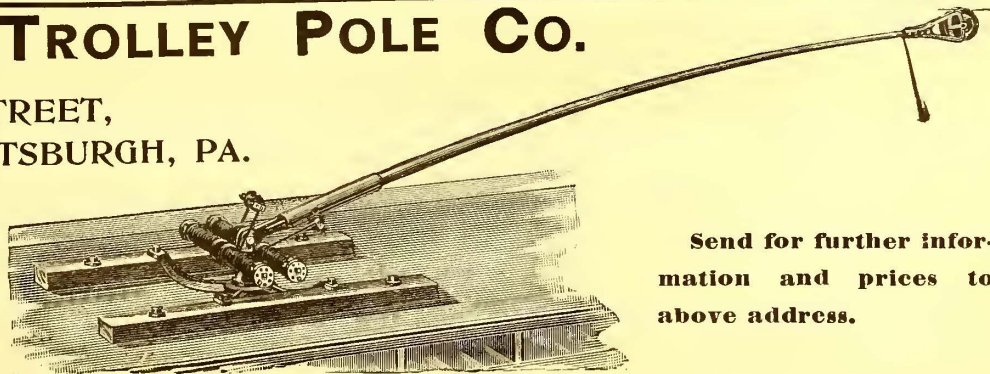
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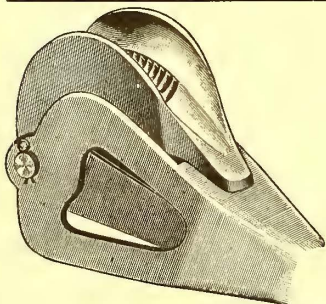
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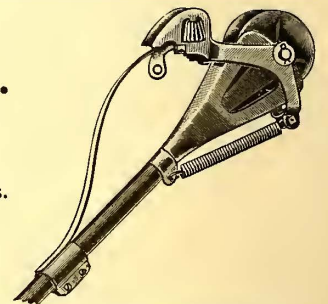
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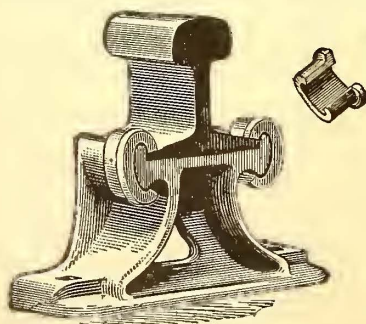
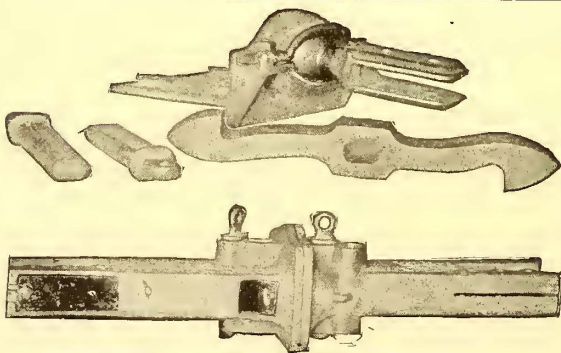
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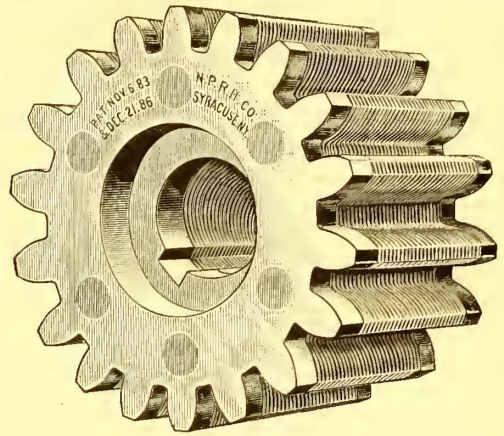


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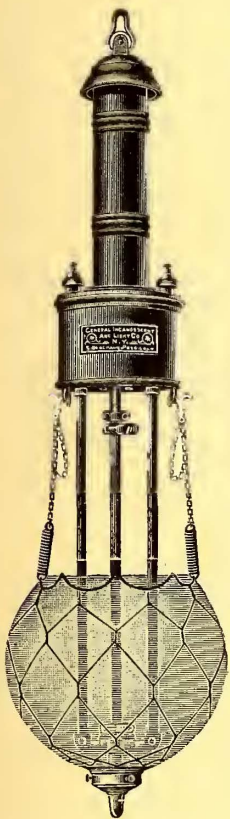


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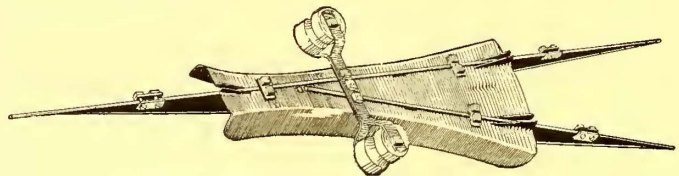
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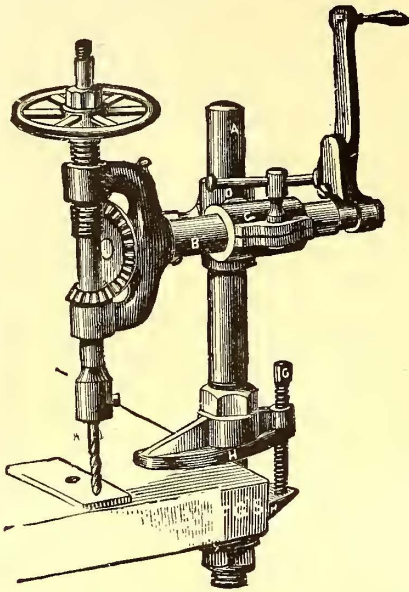
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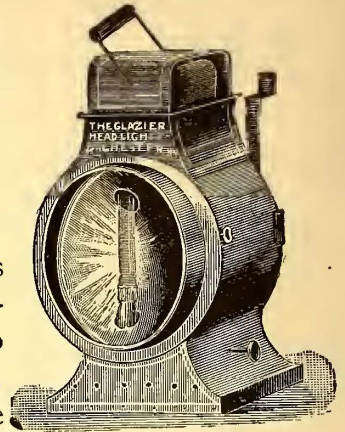
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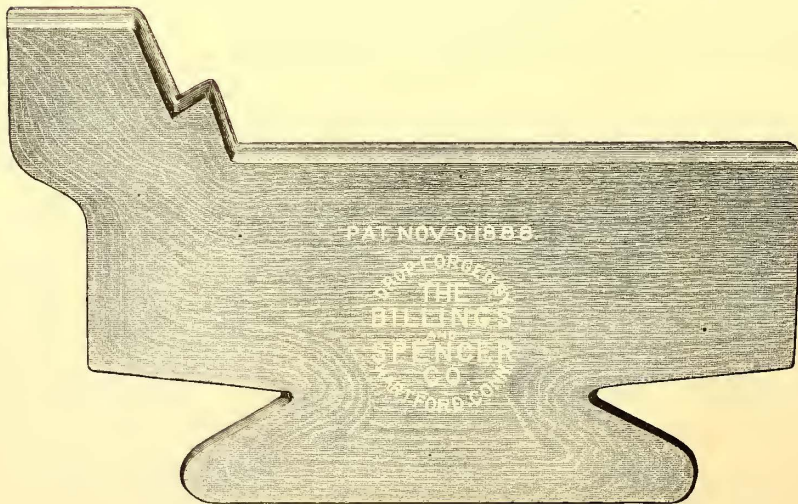
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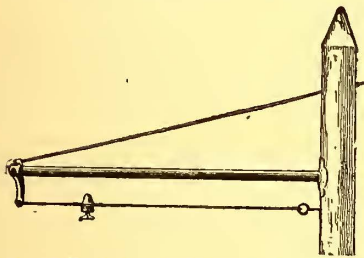
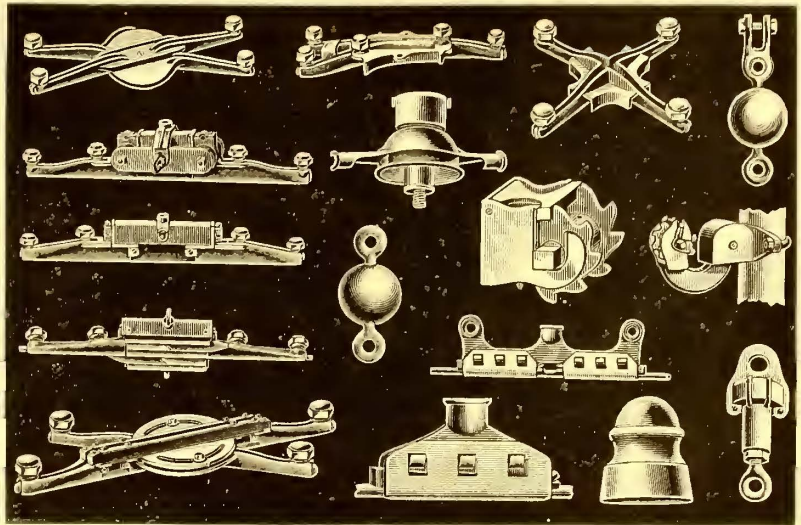
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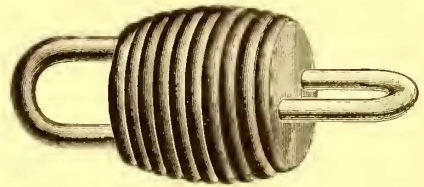
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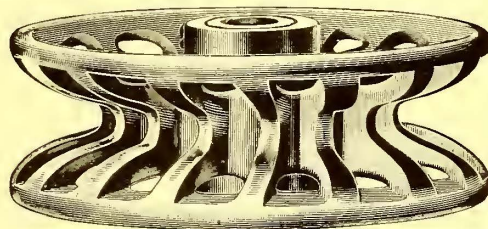
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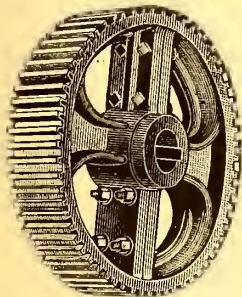
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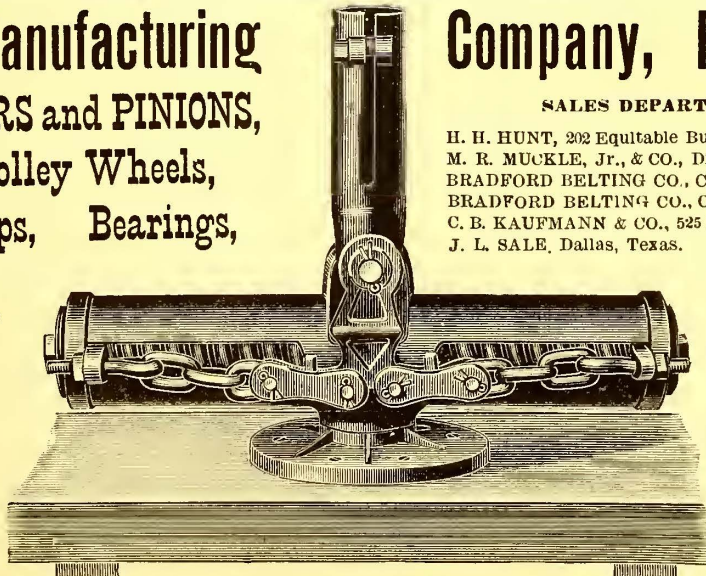


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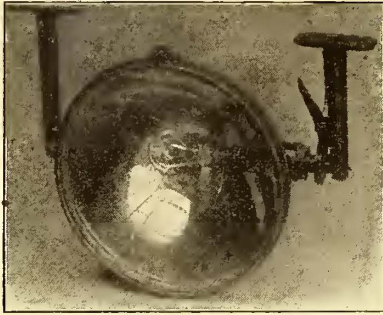
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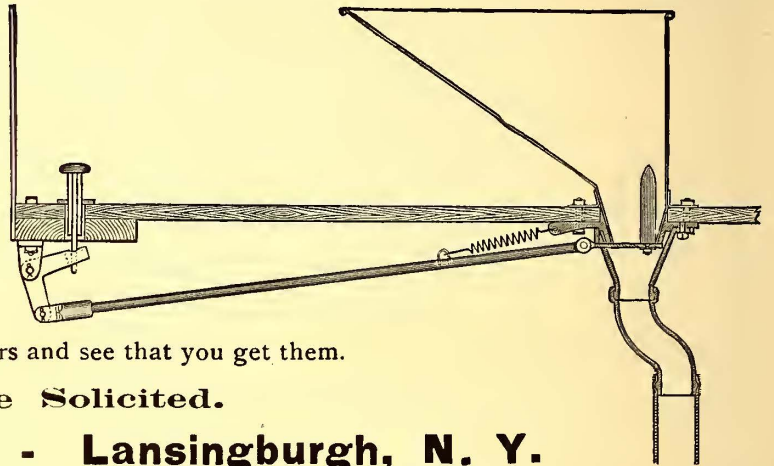
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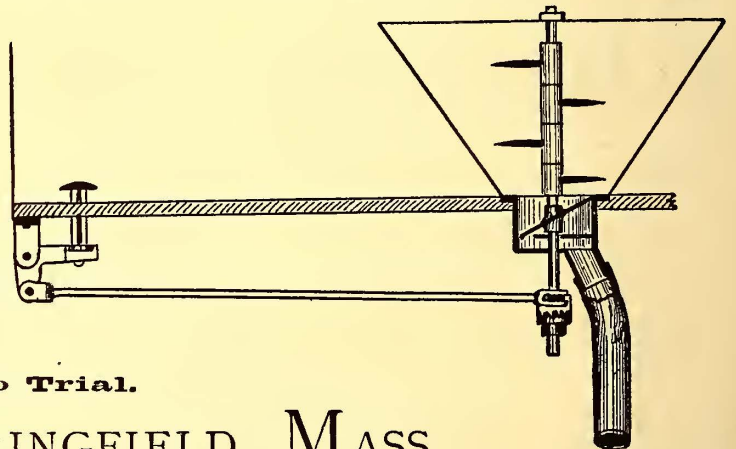
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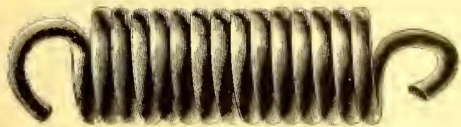
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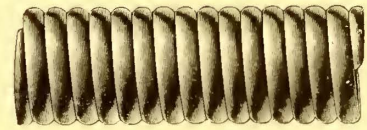


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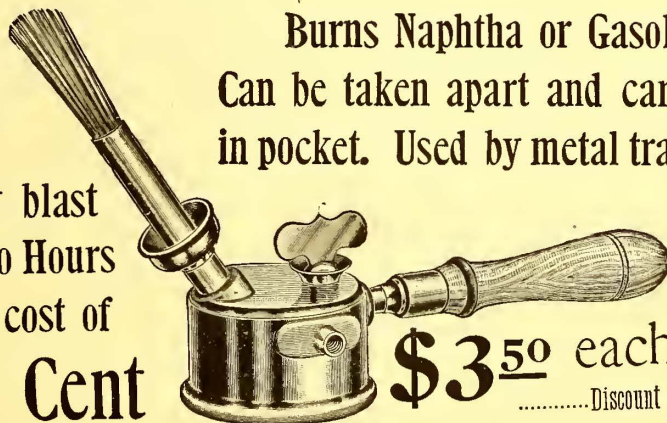
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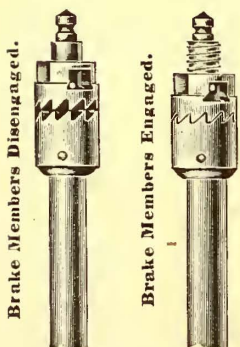
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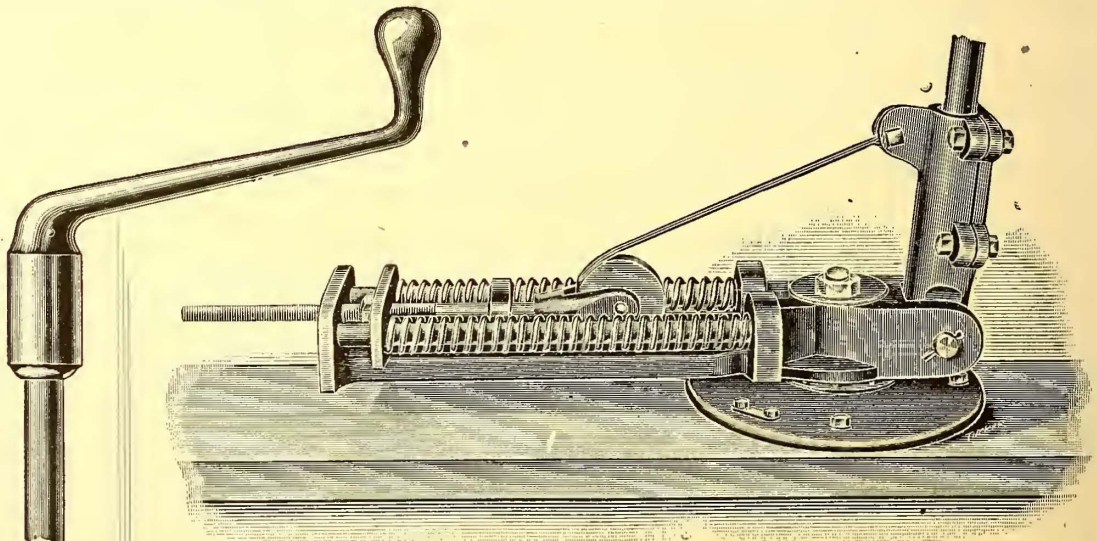
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We are prepared to furnish brakes on short notice, either with our oscillating pump and eccentric, which is placed upon the truck, or by our new independent motor system, which is entirely automatic, occupies but small space, which can be placed in the cab, or under the car, as desired. By the use of our 6-way valve, the controller as well as the brake can be operated by air, all being done with one handle, or with a little change, the air brake valve can be operated by the controller handle, or in other words, we can give you most anything you want in the shape of a first-class and reliable brake. Whistle furnished when desired. Also all the necessary attachments for trail cars.

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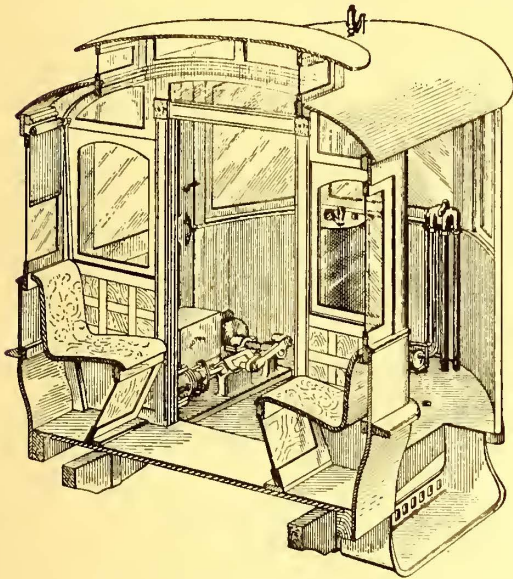
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ONLY 5 MONTHS

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IT WILL PAY YOU TO GIVE IT A TRIAL.

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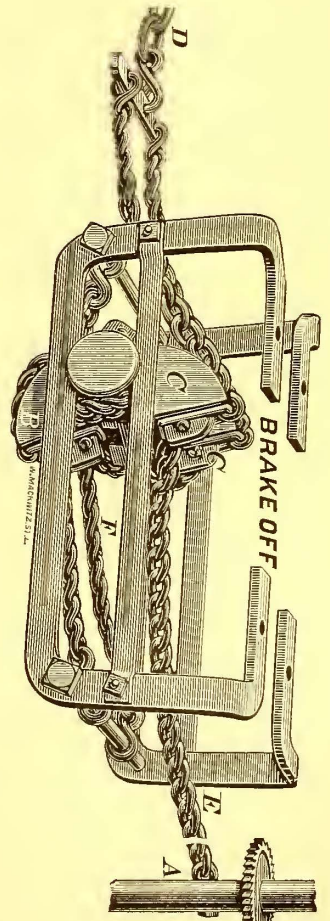
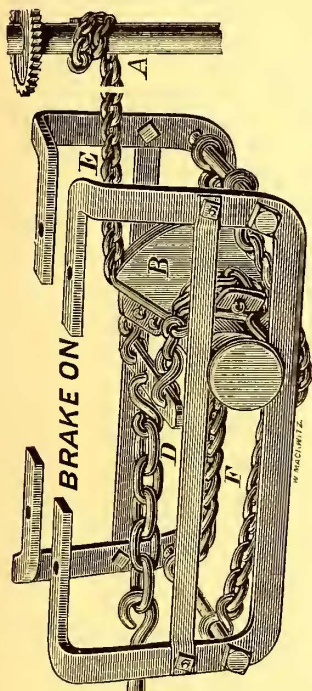
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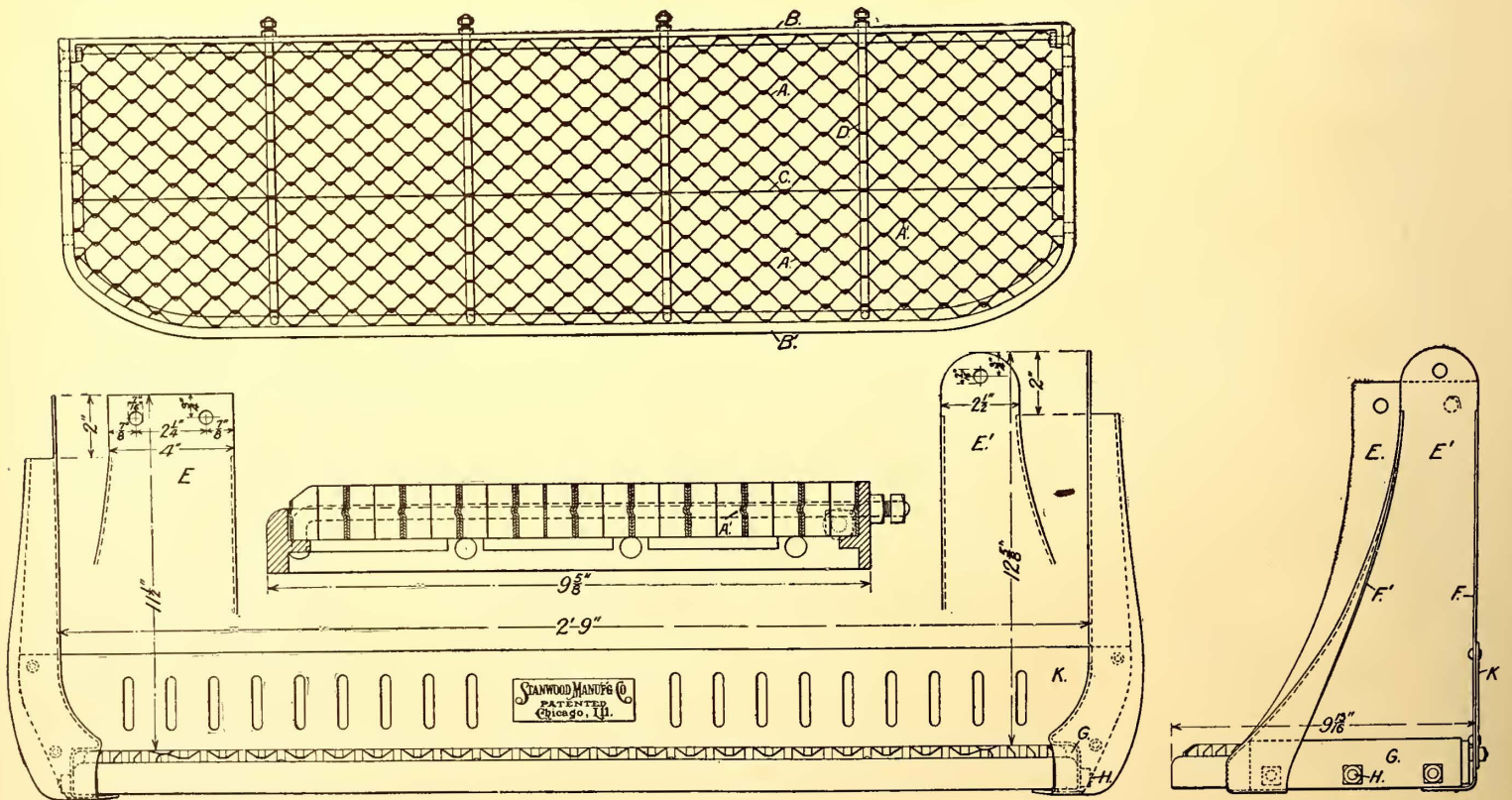
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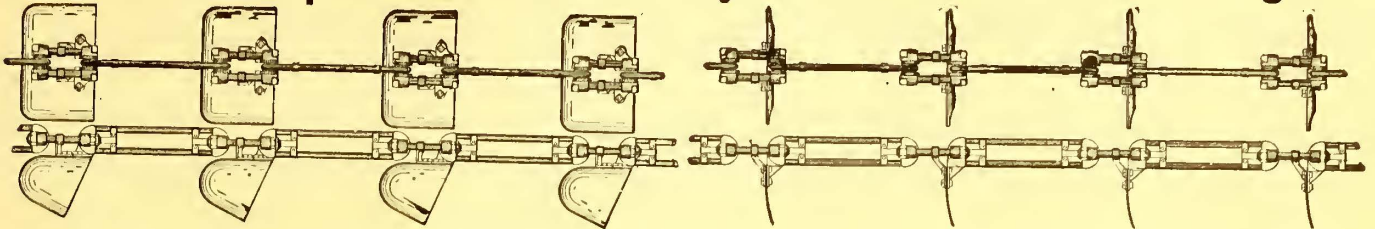
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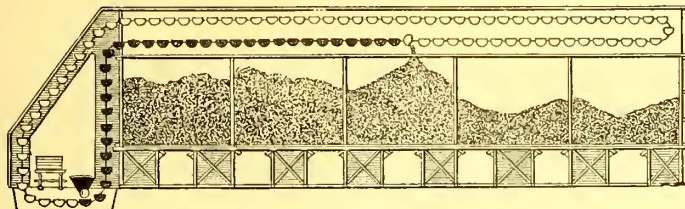
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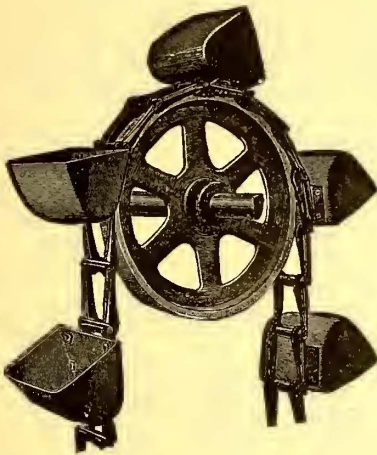
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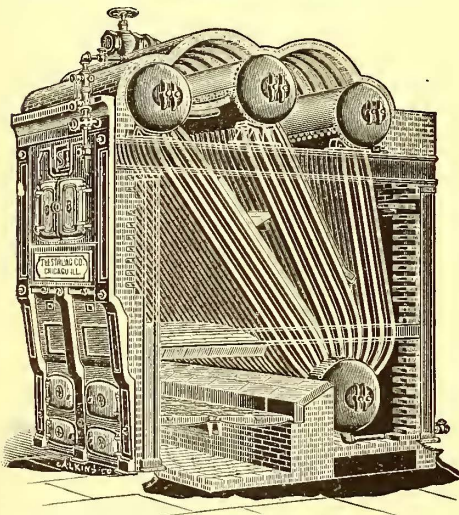
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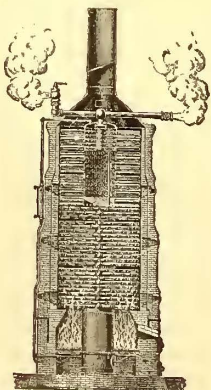
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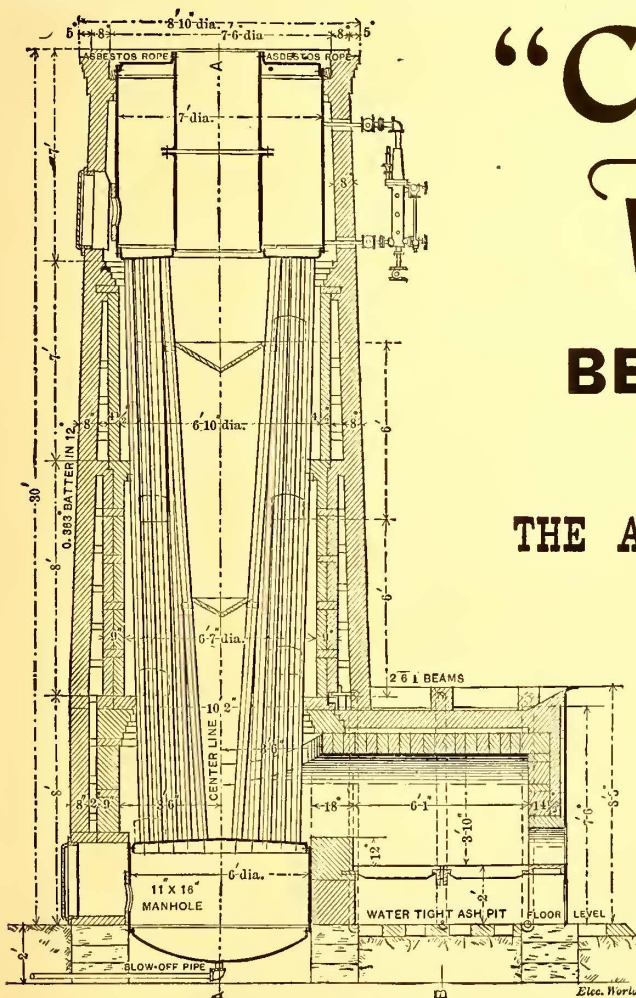
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LIST OF BABCOCK AND WILCOX BOILERS

In use on Electric and Cable Railways,
November 1st, 1895.

	H. P.		H. P.		
West End St. Ry. Co., Boston.....	7 orders, '89-'95.....	12,000	Hestonville, Muntua & Fairmount Passenger Ry. Co., Philadelphia.....	April '91.....	1,500
Philadelphia Traction Co., Philadelphia.....	4 orders, '93-'94.....	10,125	Pittsburgh & Birmingham Traction Co., Pittsburgh.....	'90.....	1,000
Brooklyn City R. R. Co., Brooklyn.....	6 orders, '91-'93.....	16,500	Albany Railway Co., Albany.....	3 orders, '89-'92.....	1,000
Metropolitan St. Ry. Co., Kansas City.....	5 orders, '86-'95.....	3,196	St. Joseph Traction & Ltg. Co., St. Joseph.....	2 orders, '89-'93.....	1,010
Market St. Elec. Ry. Co., San Francisco.....	3 orders.....	2,208	Duluth St. Ry. Co., Duluth, Minn.....	4 orders, '90-'93.....	1,312
Crosstown St. Ry. Co., Buffalo.....	3 orders, '90-'93.....	4,500	Rochester St. Ry. Co., Rochester, N. Y.....	3 orders, '91-'94.....	1,143
Cincinnati St. Ry. Co., Cincinnati.....	5 orders, '90-'93.....	3,200	Union Railroad Co., New York.....	2 orders, '91-'92.....	1,500
Lynn & Boston Railroad Co., Boston.....	3 orders, '91-'92.....	4,000	Carrollton Elec. Ry. Co., New Orleans.....	2 orders, '92-'94.....	1,040
Atlantic Avenue Railroad Co., Brooklyn.....	3 orders, '92-'93.....	3,000	Union Railroad Co., Providence.....	2 orders, '92-'93.....	2,000
Consolidated Traction Co., Jersey City.....	3 orders, '93-'94.....	4,000	Washington & Georgetown R. R., Washington, D. C.....	4 orders.....	1,923
Electric Traction Co., Philadelphia.....	4 orders, '93-'94.....	6,750	Cleveland City Cable Co., Cleveland.....	'90.....	1,086
People's Traction Co., Philadelphia.....	1 order, '95.....	4,800	Staten Island Elec. Ry. Co., New Brighton.....	April '95.....	750
Detroit Citizens' St. Ry. Co., Detroit.....	3 orders, '95.....	3,500	Springfield St. Ry. Co., Springfield, Mass.....	2 orders, '94.....	1,000
Metropolitan Traction Co. (Broadway Cable Road), New York.....	4 orders, '94.....	3,000	Sea Shore Elec. Ry. Co., Asbury Park, N. J.....	'92.....	640
Denver City Cable Ry. Co., Denver.....	3 orders, '89-'91.....	2,686	Merrimac Valley St. Ry. Co., Lawrence, Mass.....	3 orders, '91-'93.....	896
Columbus St. Ry. Co., Columbus.....	4 orders, '90-'93.....	1,807	Citizens' St. Ry. Co., Indianapolis, Ind.....	Aug. '91.....	600
N. Y. & Brooklyn Bridge.....	4 orders, '82-'93.....	1,370	Valley City St. & Cable Ry. Co., Grand Rapids, Mich.....		781
Metropolitan West Side Elevated Railroad Co., Chicago.....	2 orders, '91-'95.....	4,000	Haverhill & Groveland St. Ry. Co., Haverhill, Mass.....	'92.....	630
Nassau Electric Railroad Co., Brooklyn.....	2 orders, '91-'95.....	2,500	Camden, Gloucester & Woodbury Elec. Ry., Gloucester, N. J.....		750
Portland St. Ry. Co., Portland, Me.....	2 orders, '91-'95.....	1,250			



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Vertical Water Tube Boiler.

BEST IN THE WORLD.

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Leads all makes of boilers in economy, capacity, ease of examination, cleaning and repairs. Send for description, tests, references and estimate before you purchase.

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Our 1895 business

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 N. K. Fairbank & Co., Chicago, Ill.
 Jones & Laughlin Co., Ltd., Pittsburg, Pa.
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 C. Pardee Works, Perth Amboy, N. J.
 Chicago Edison Co., Chicago, Ill.
 Empire Light & Power Co., Quincy, Ill.
 Cedar Rapids Electric Light & Power Co., Cedar Rapids, Ia.
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 J. Walker Brewing Co., Cincinnati, O.
 L. Hoster Brewing Co., Columbus, O.
 American Brewing Assn., Houston, Tex.
 Galveston Brewing Assn., Galveston, Tex.
 C. Moerlein Brewing Co., Cincinnati, O.
 St. Charles St. Railroad Co., New Orleans, La.
 Orleans Railroad Co., New Orleans, La.
 Louisville Street Railway Co., Louisville, Ky.
 Bergen Co. Traction Co., Edgewater, N. J.
 Luzerne, Dallas & Harvey's Lake St. Ry. Co., Wilkes-Barre, Pa.
 Hartford Street Railway Co., Hartford, Conn.
 Lynchburg & Rivermont St. R. R., Lynchburg, Va.
 Toledo Traction Co., Toledo, O.
 J. G. Brill Co., for South African Street Railway.
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 Woonsocket Elec. Machine & Power Co., Woonsocket, R. I.
 Griffin Mfg. Co., Griffin, Ga.
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 Burlington Elev. Co., St. Louis.
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 USED IN MOST OF THE LARGEST STREET RAILWAYS
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A QUESTION OR TWO.

Have you coal to burn? Is its cost an important factor? Have you considered improved methods?

A WORD AS TO IMPROVEMENTS.

When a radical advance is suddenly made in any art, it is usually broadly heralded, frequently over estimated and always surrounded with more or less misinformation.

When the art has advanced by gradual improvement, its development makes less impression. Its record takes the place of representation and its merits are more reliably known.

BURNING COAL TO ADVANTAGE.

Follow the practice from the time of inefficient boilers, cramped flues, low stacks, poor grates and worse settings, to the day of good boilers well set, with high stacks, and the various fuel and labor saving attachments, from cleaning devices to damper regulators; and from shaking grates to mechanical stokers.

SOMETHING TO THINK ABOUT.

A hot fire gets the most heat out of the coal.

When you have a hot fire under a boiler and a low stack temperature your coal is making lots of heat and you are using it.

Don't be deceived into thinking your economy is good merely because the stack temperature is low.

Sometimes a high stack temperature is economical because the greater economy of a hot fire more than makes up for the loss through the stack.

WHAT TO DO.

Get the hottest fire you can out of your coal through perfect combustion.

Get the lowest stack temperature possible by sending the heat into the water, not up the stack.

To do this, mechanical stoking is necessary in making a hot fire and keeping it hot all the time.

An Economizer and Mechanical Draft plant is necessary to utilize the surplus heat which the boiler will not take up.

TO ANSWER SOME POSSIBLE QUESTIONS.

The stoker feeds coal uniformly; burns it clean, and in fact is a first-class fireman who performs his duty without opening doors. The labor saving in many cases exceeds the direct fuel saving.

The Economizer puts the waste heat into the feed water, increasing its temperature 100 degrees or more, and every 10 degrees rise saves one per cent. of coal.

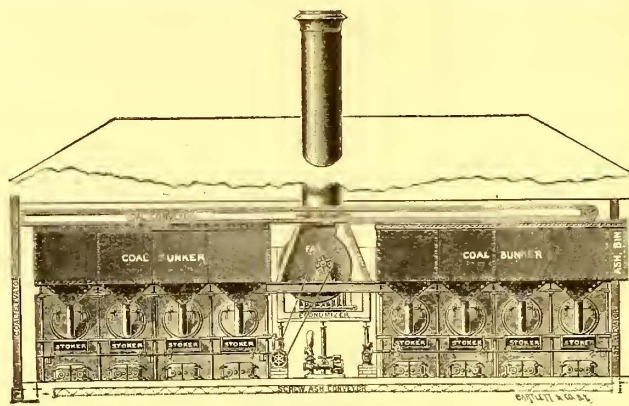
The Mechanical Draft supplies a sufficient draft independent of the stack, which may be merely high enough to clear the roof.

The cost of the Economizer and Mechanical Draft rarely exceeds that of a sufficient stack.

The Economizer and Mechanical Draft go naturally together though either may be used independent of the other. The Economizer when used alone requires a high stack to give ample draft; the Mechanical Draft when used alone has the fan fitted with water boxes suitable for the high temperature resulting from absence of the Economizer.

IN GENERAL.

These things have advanced gradually until they have found wide application in plants from moderate sizes to the largest. Having made them a specialty, we suggest the above points for your consideration and will supply more detailed information upon a knowledge of your conditions and requirements.



WESTINGHOUSE, CHURCH, KERR & CO.,

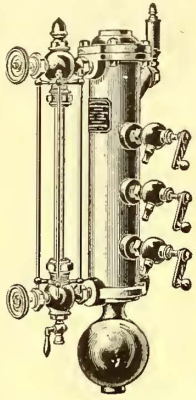
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The Reliance Safety Water Columns.

WOULD ANYTHING BUT DEMONSTRATED MERIT BRING SUCH RESULTS?



Name	Number of Orders	Number of Columns
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Citizens' Street Railway Co., Detroit,	5	20
The Boston Electric Light Co.,	3	31
B. B. and R. Knight, Providence,	12	53
The Johnson Co., Lorain, O.,	4	52
The Phil. & Reading Coal & Iron Co.,	4	40
Wamsutta Mills, New Bedford, Mass.,	2	24
James S. Kirk & Co., Chicago,	3	21
Pabst Brewing Co., Milwaukee,	3	27
Standard Oil Co.,	—	173

It costs less to pay for them than to get along without them.

Boilers last longer. Repairs and stoppage are obviated. Fuel bills are reduced, and life and property are safer wherever they are used.

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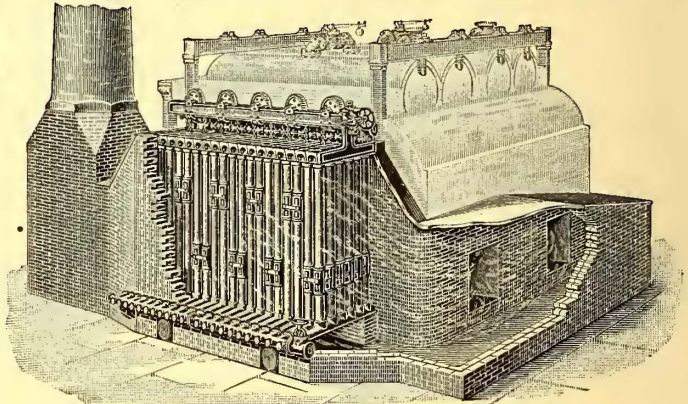
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Heating by Exhaust Steam WITHOUT BACK PRESSURE By the Vacuum System.

- ADVANTAGES:**
- 1st.—Can be attached to existing plants at little expense.
 - 2nd.—Effects greatest efficiency from the heating surface by the removal of the water and air, preventing water hammer and stagnant circulation.
 - 3rd.—Saves coal by removal of back pressure from engines; water of condensation, etc.

We are owners of the patent and have equipped the largest plants in the United States; over 500 now in use. Will visit your plant and tell you how much we can benefit you, if you so desire. Send for catalogue P.

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Removable Bronze Seat for Very High Steam Pressures.
Large Sizes Ribbed Bodies with By-Pass. Made in Several Styles and all Sizes.
The Stuffing Box may be Repacked without Closing the Valve. Investigation Solicited.

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The GENUINE CHAPMAN VALVES in all cases will bear our name in full, either rolled in or cast upon the shells, and also our trade-mark and monogram.



Built for Service

LIKE A KRUPP GUN.

THE CRANE HIGH PRESSURE WEDGE GATE VALVES

ARE THE FINEST MONEY AND SKILL
CAN PRODUCE.

The bodies are heavier and the stems larger than any other high pressure valve.

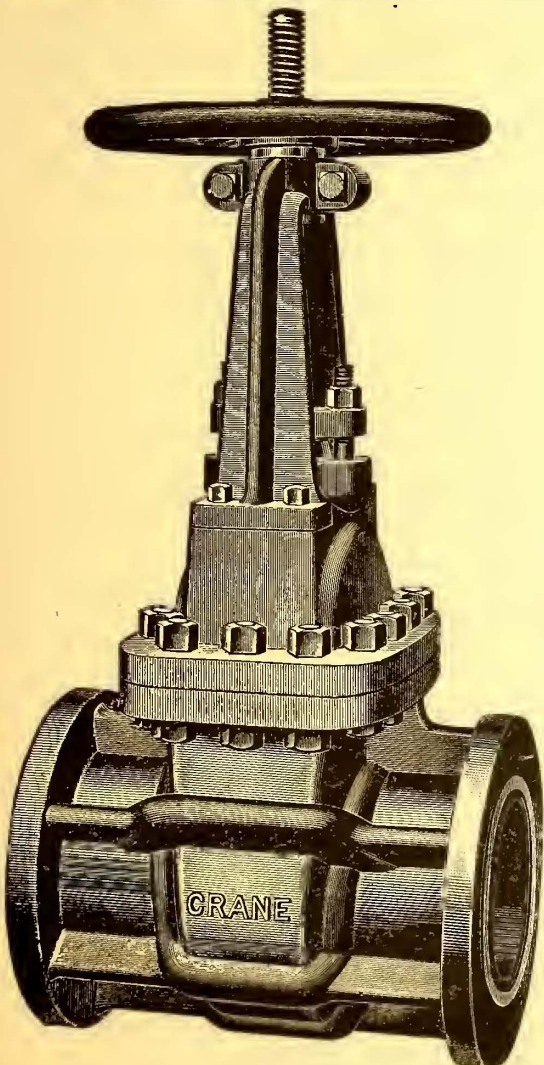
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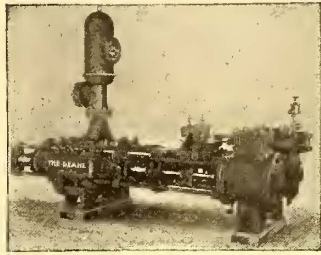
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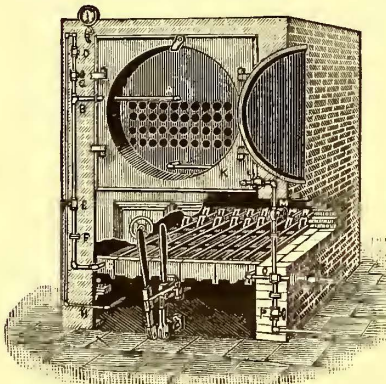
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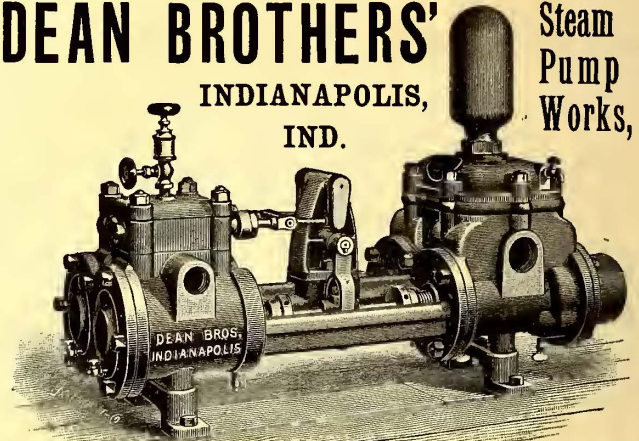
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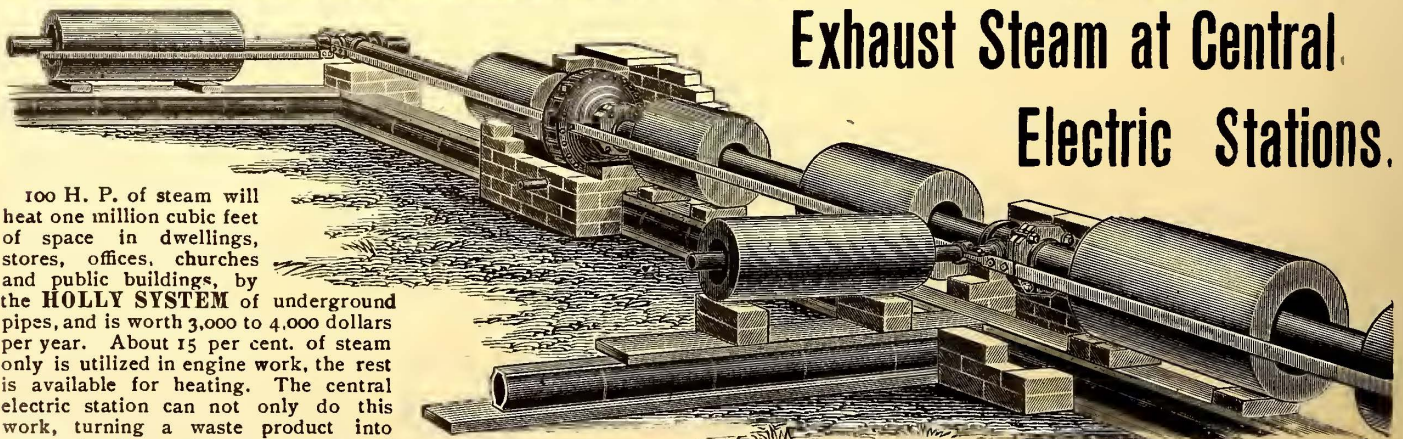


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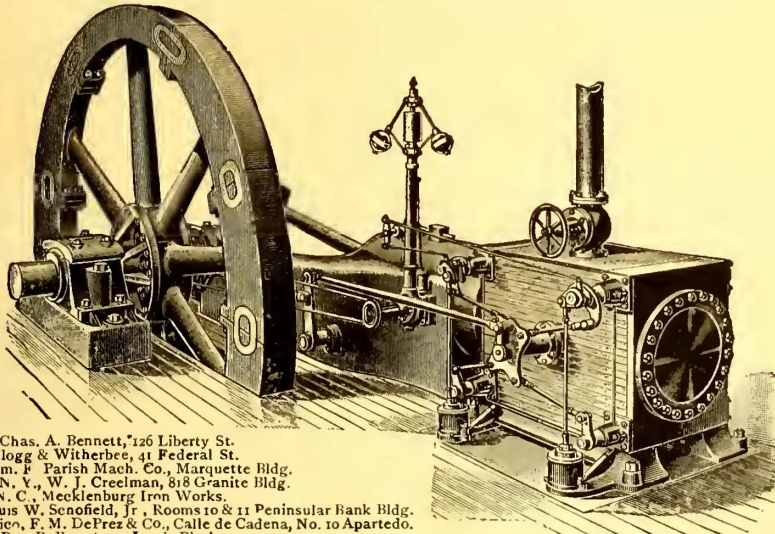
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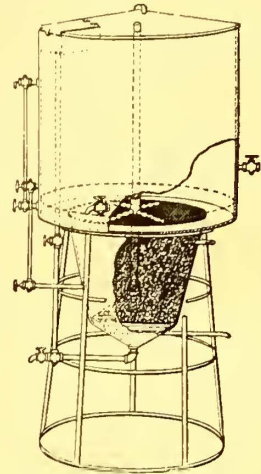
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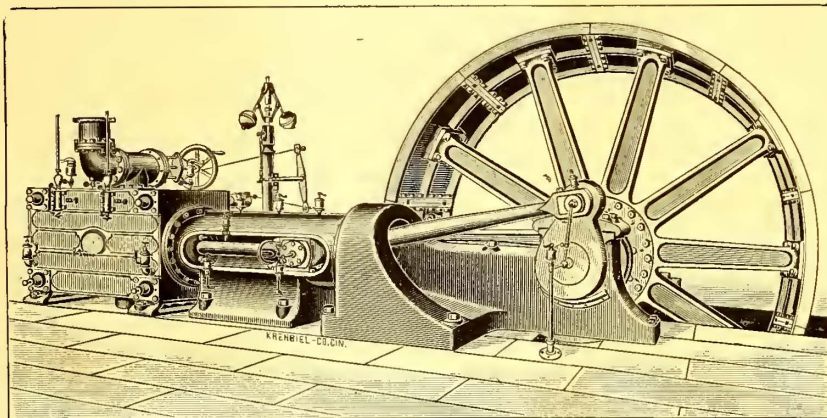
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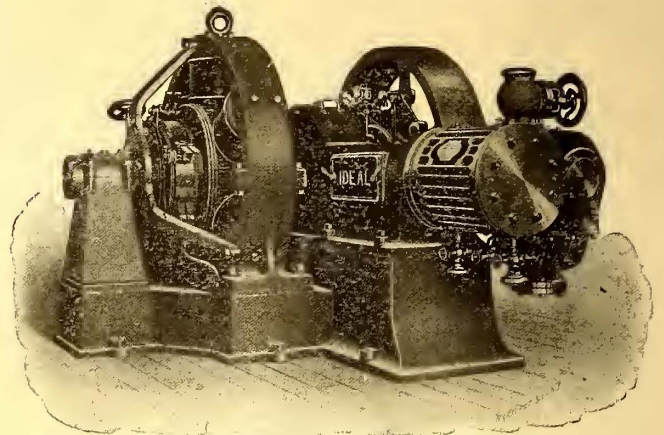


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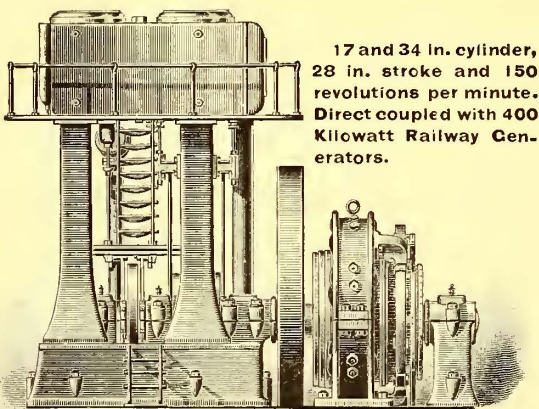
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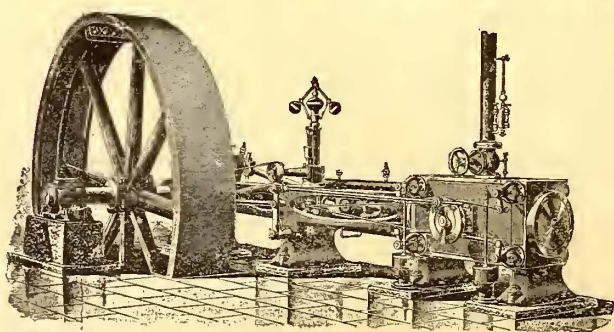
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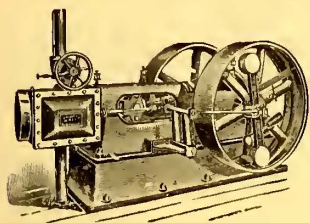
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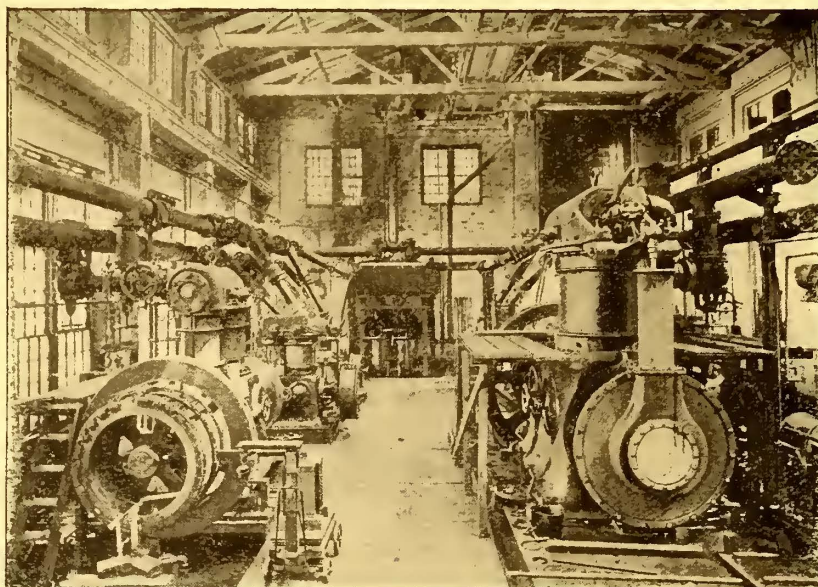
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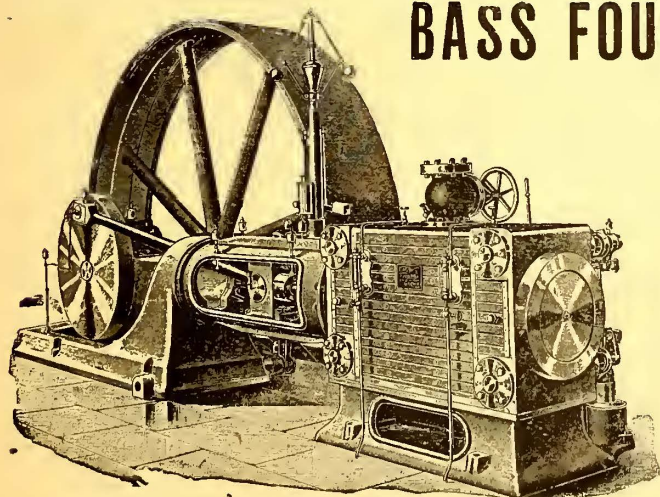
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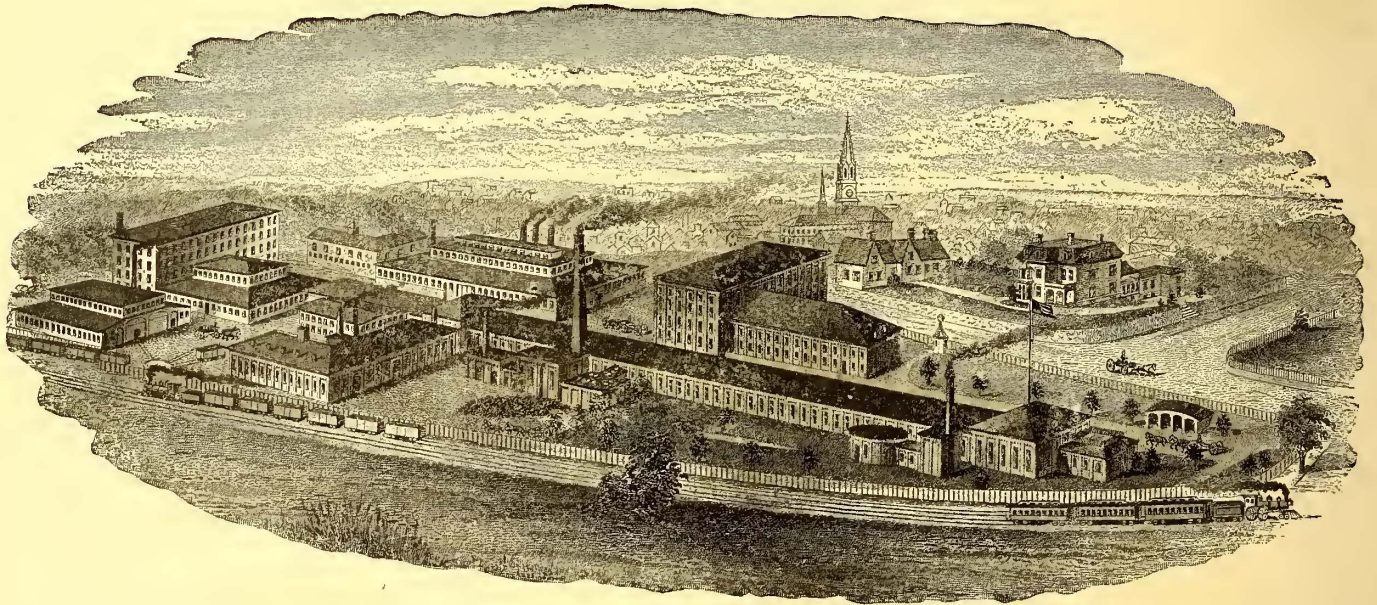
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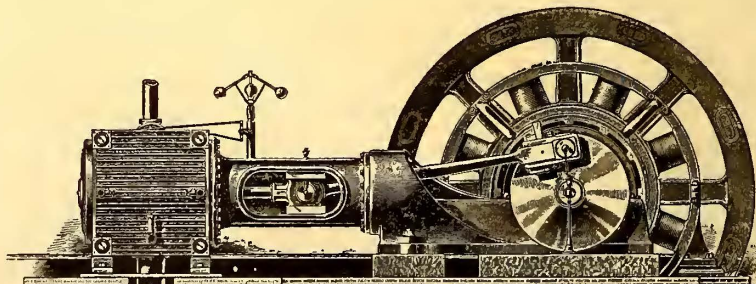
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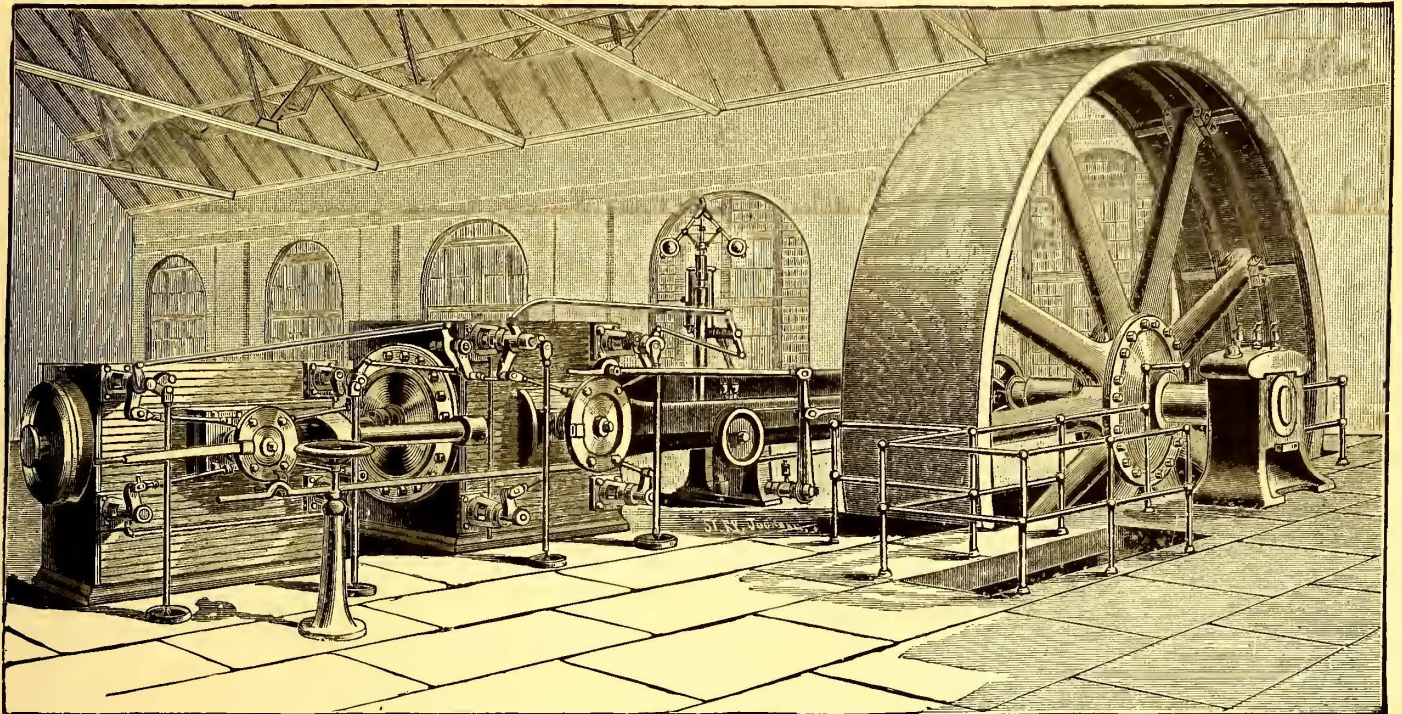
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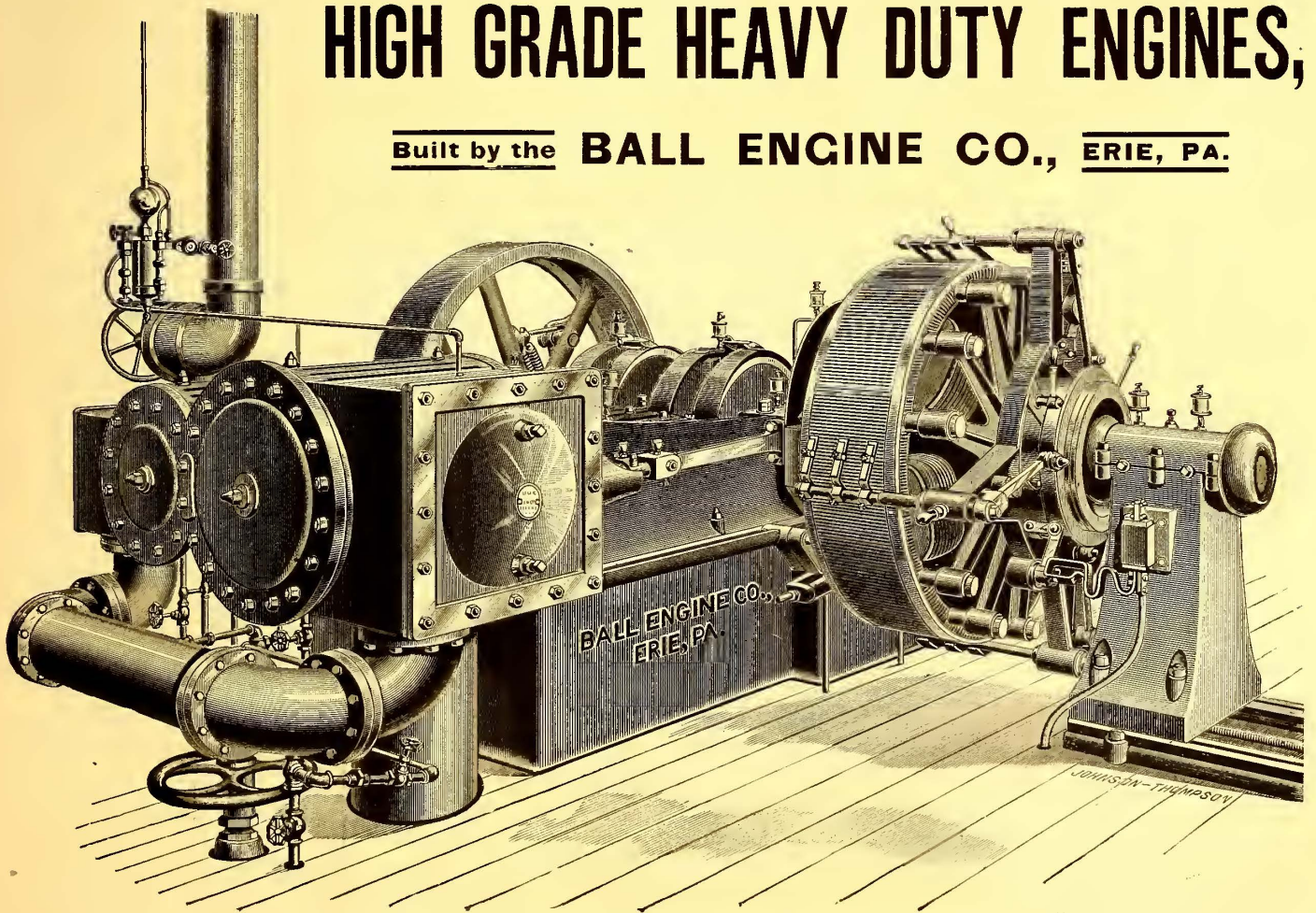


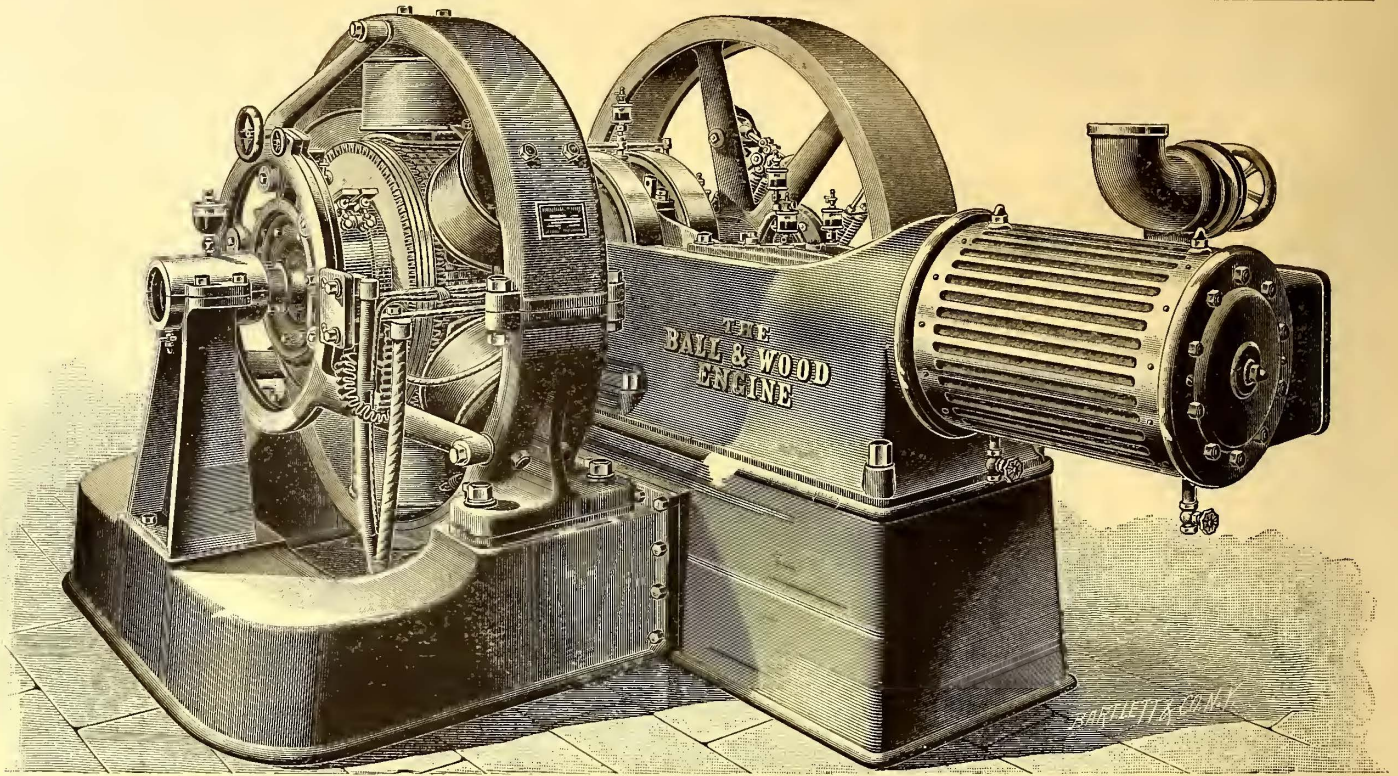
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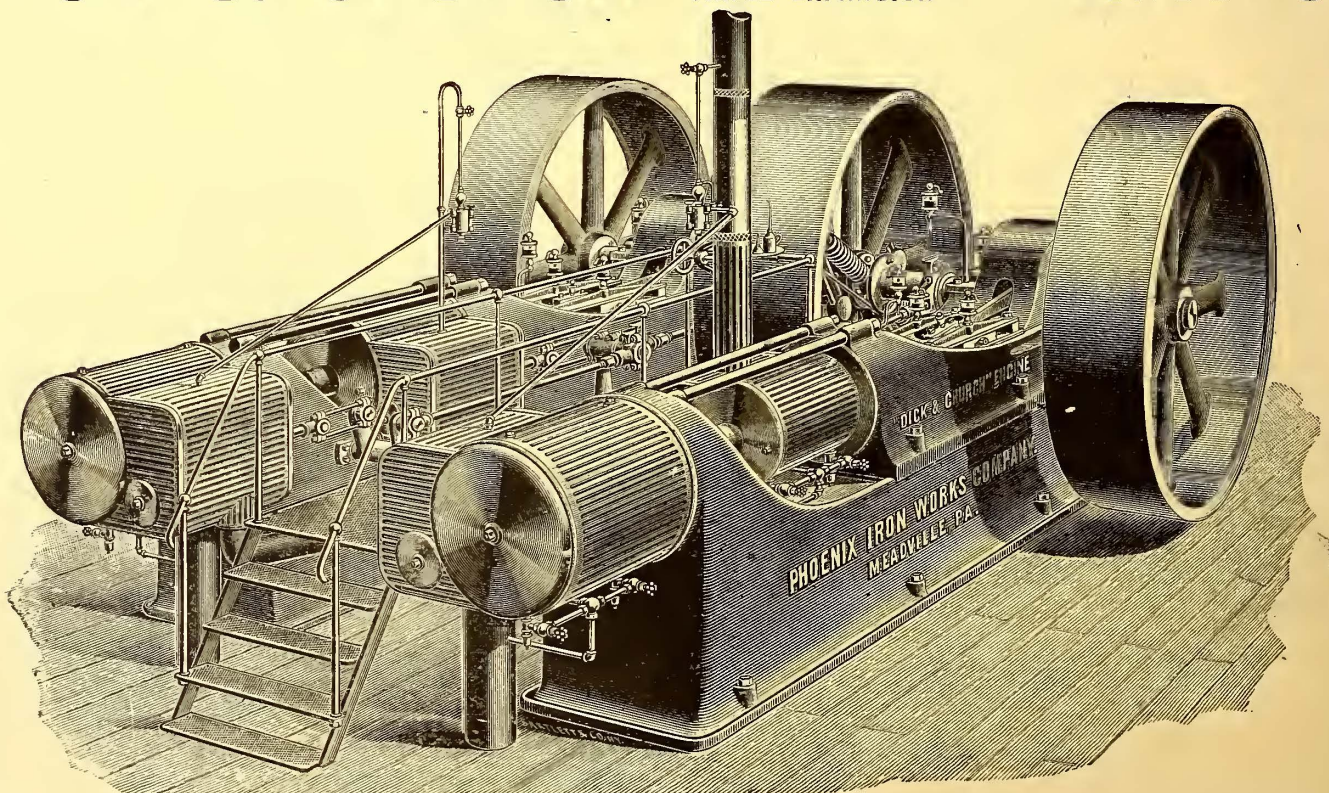
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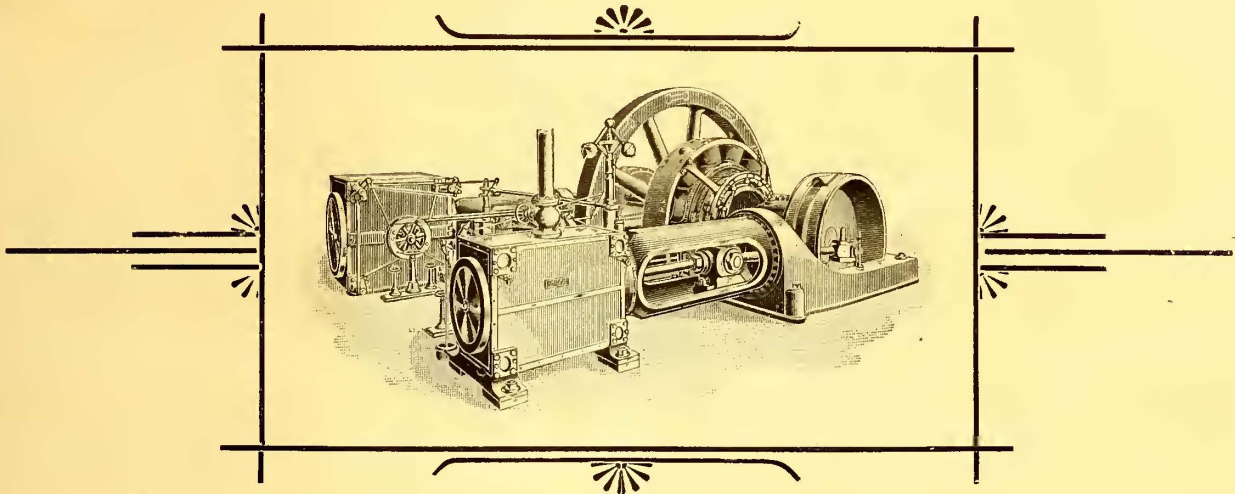
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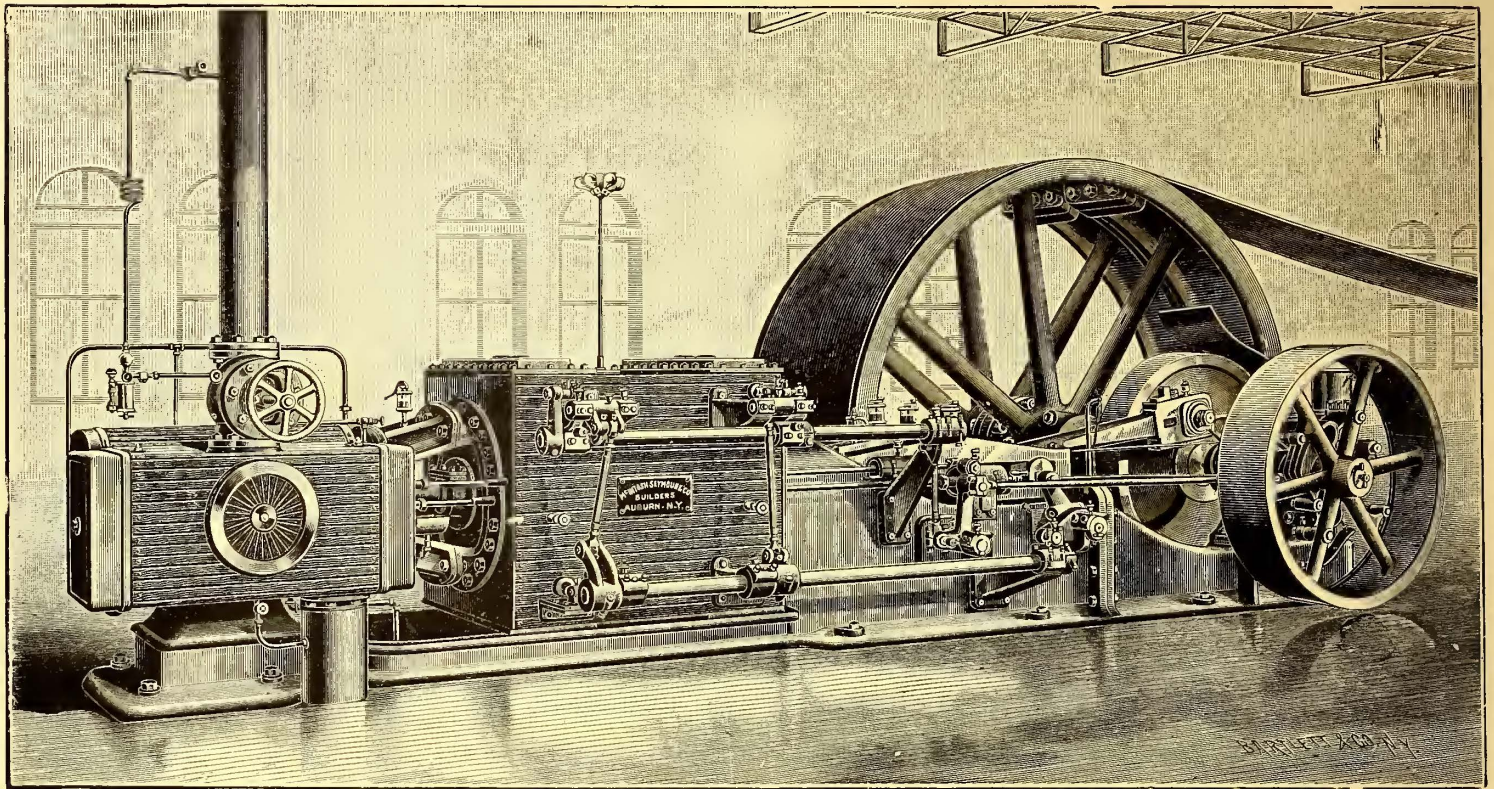
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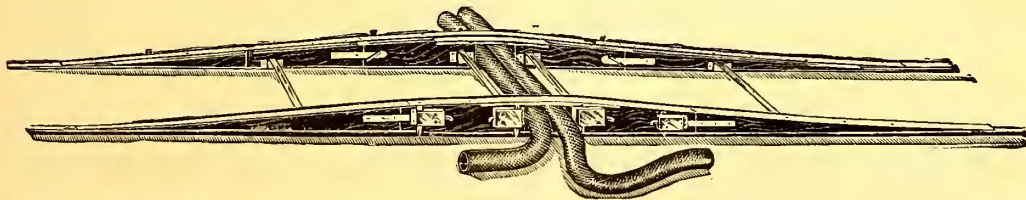
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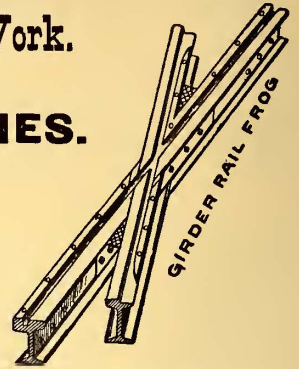
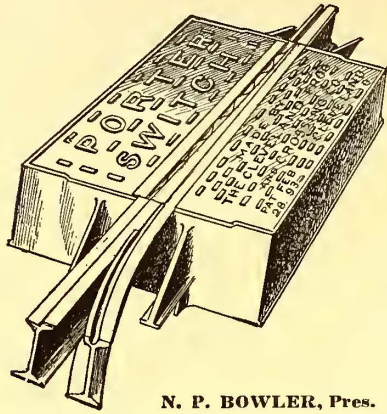
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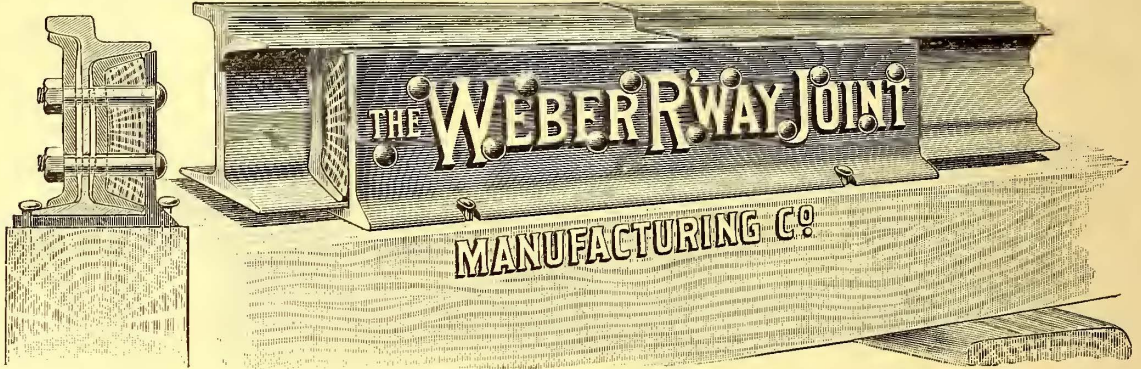
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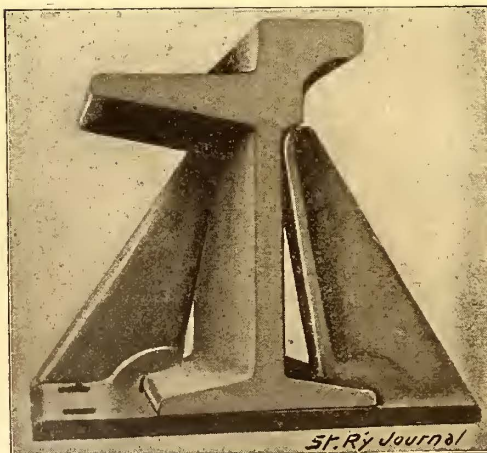
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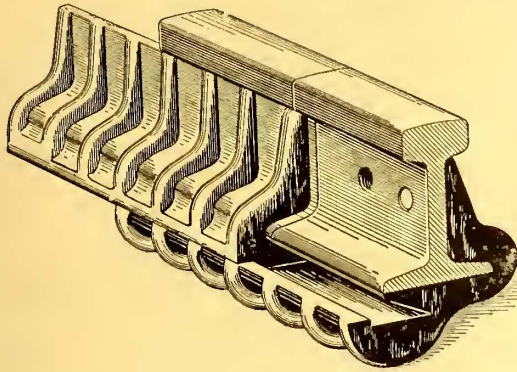
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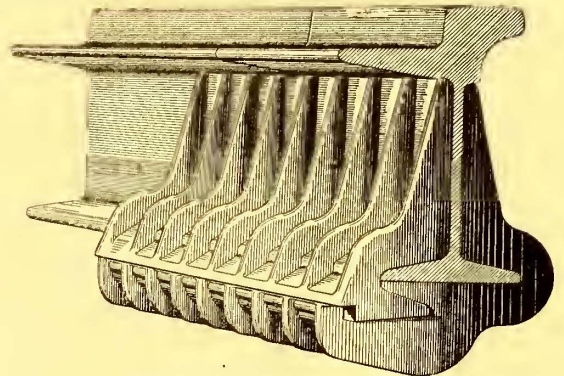


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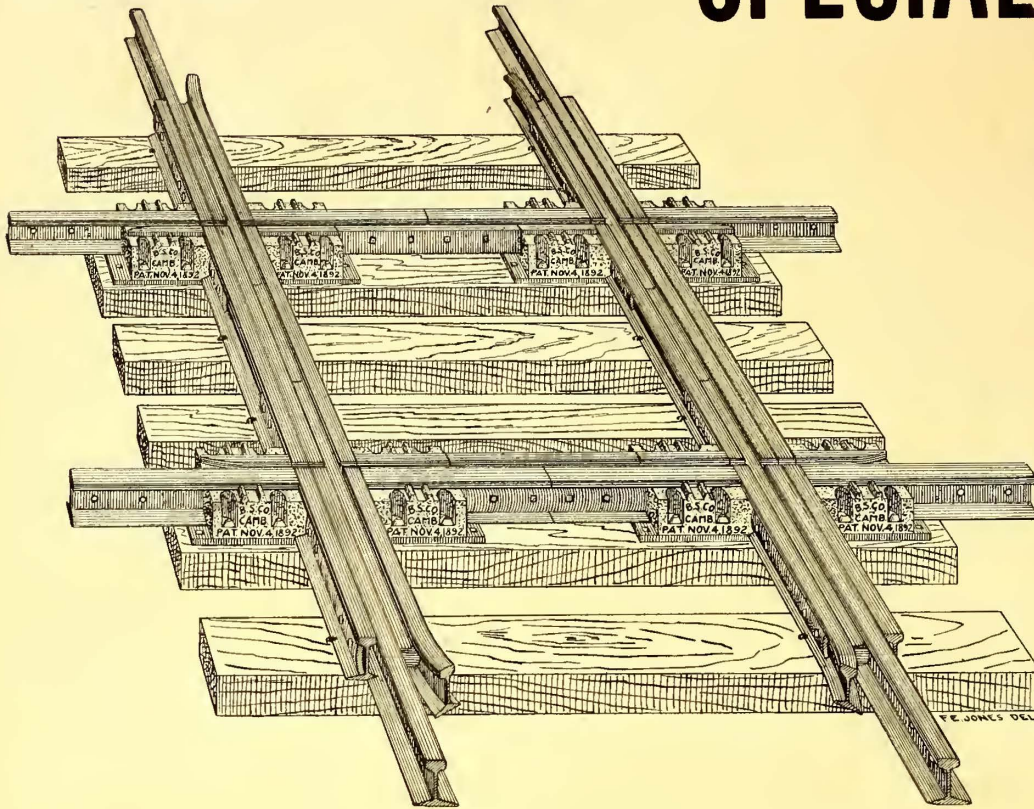
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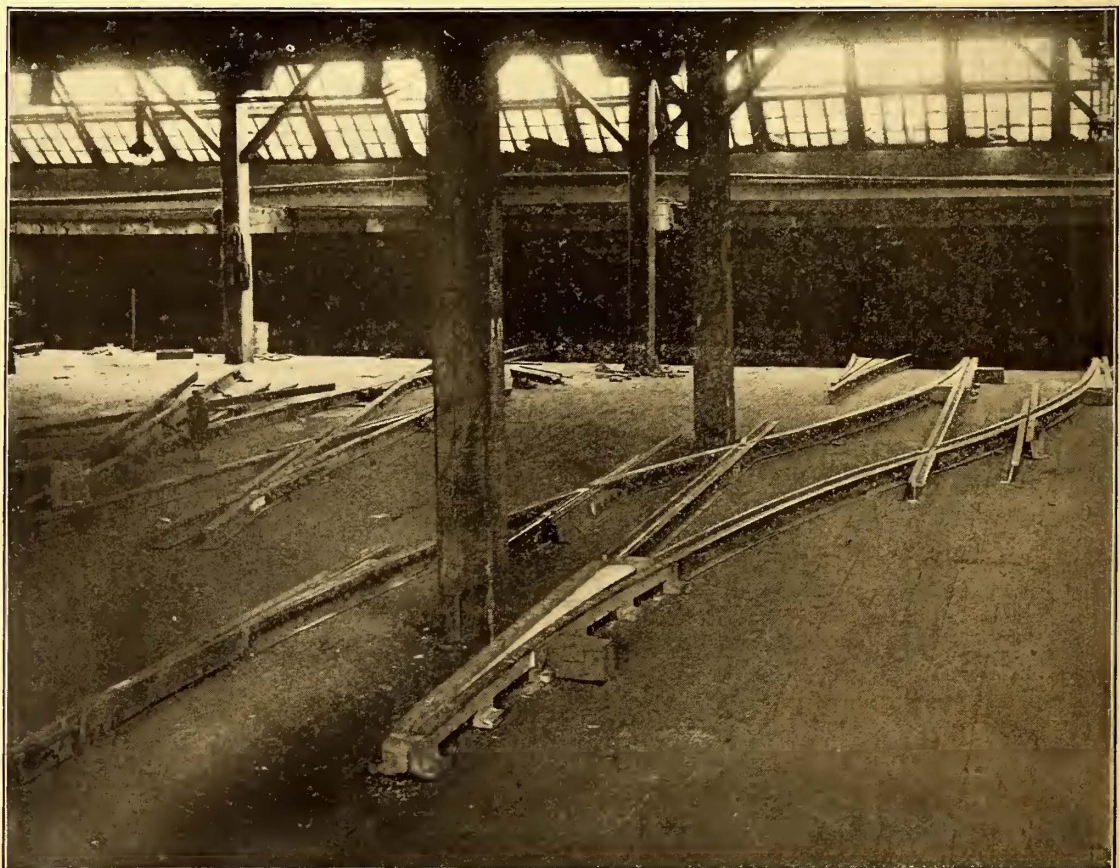
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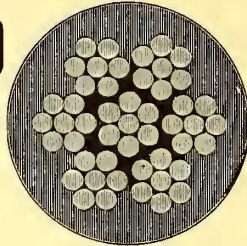
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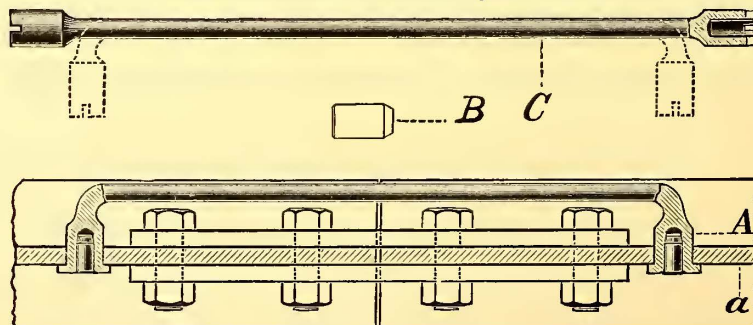
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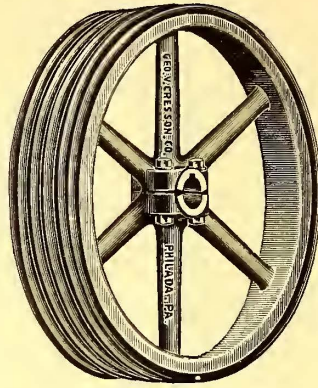
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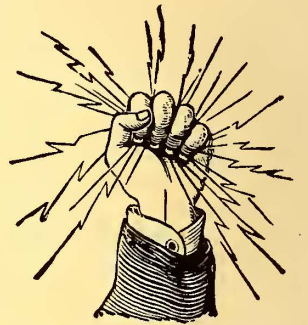
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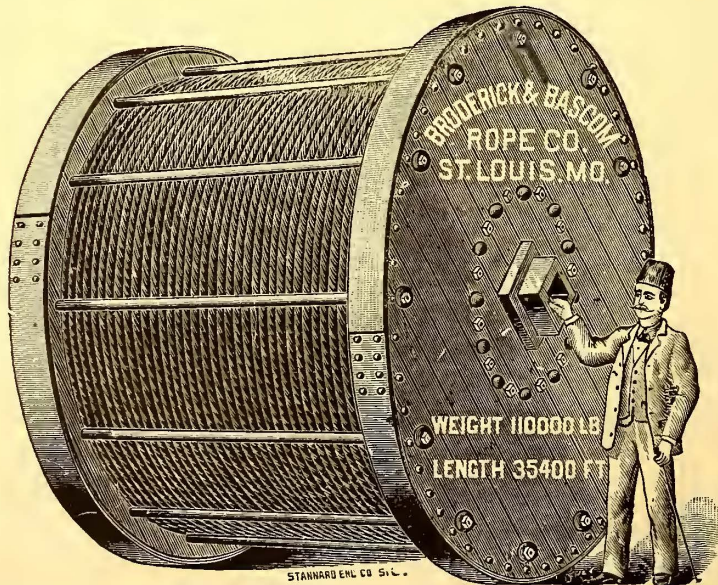


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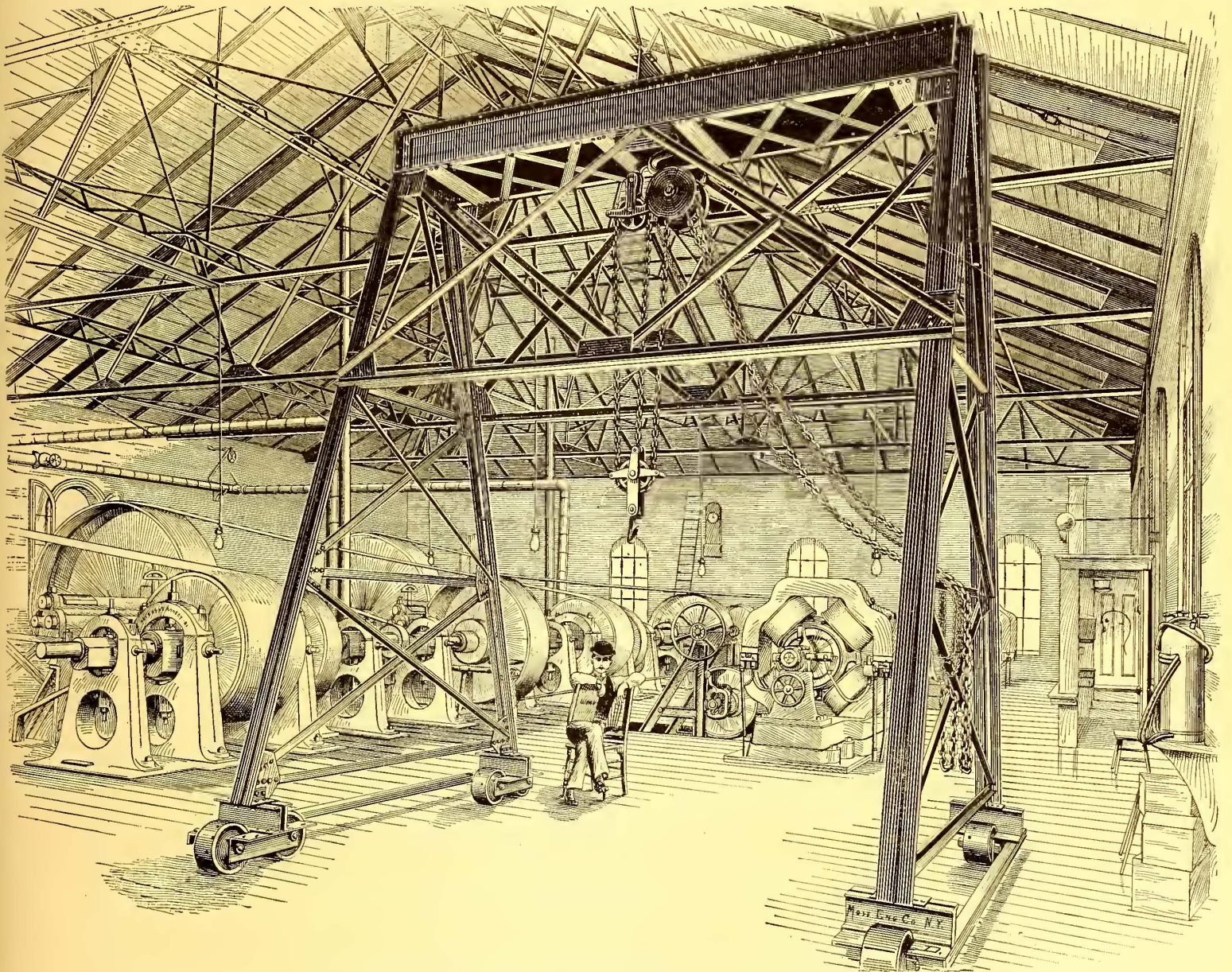
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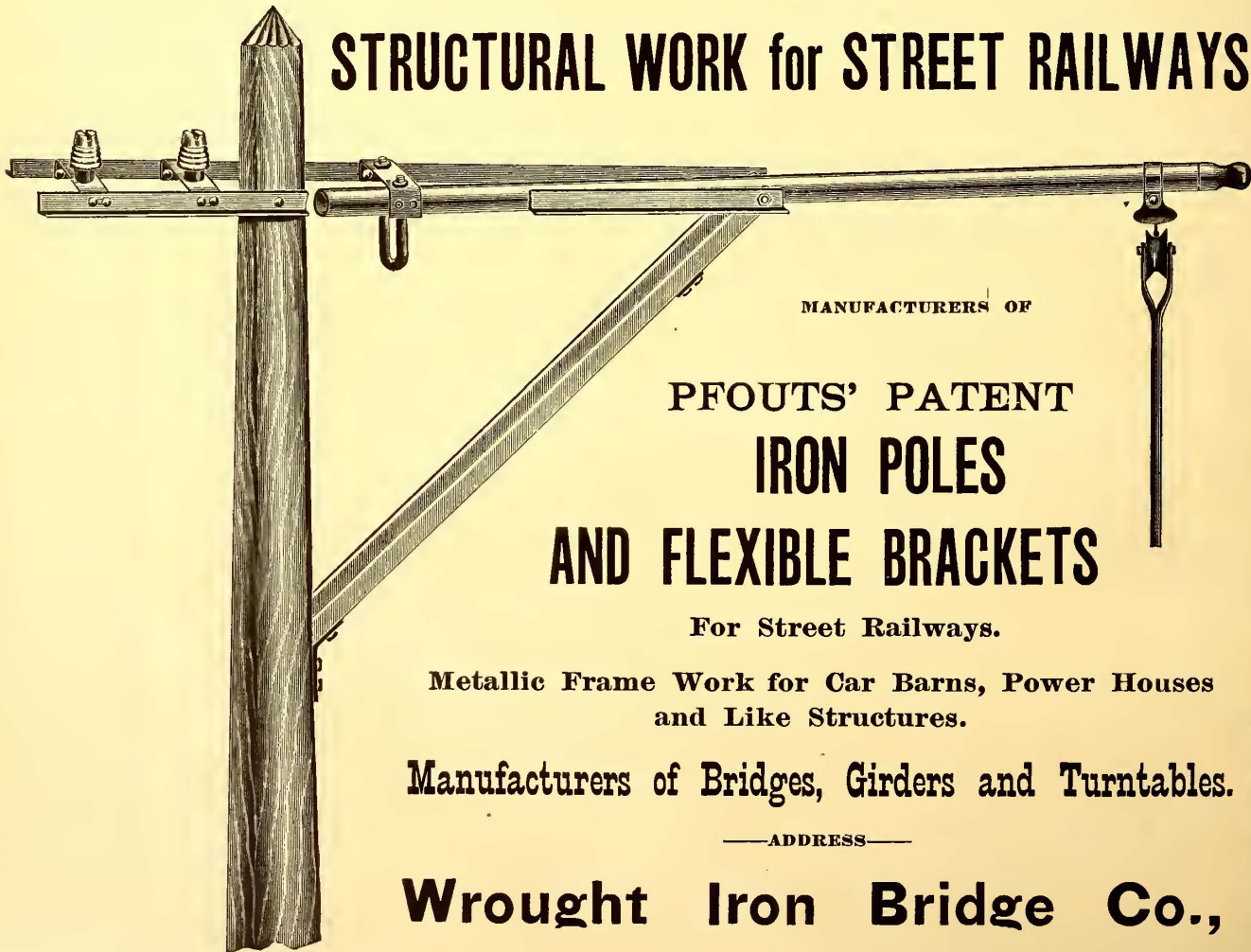
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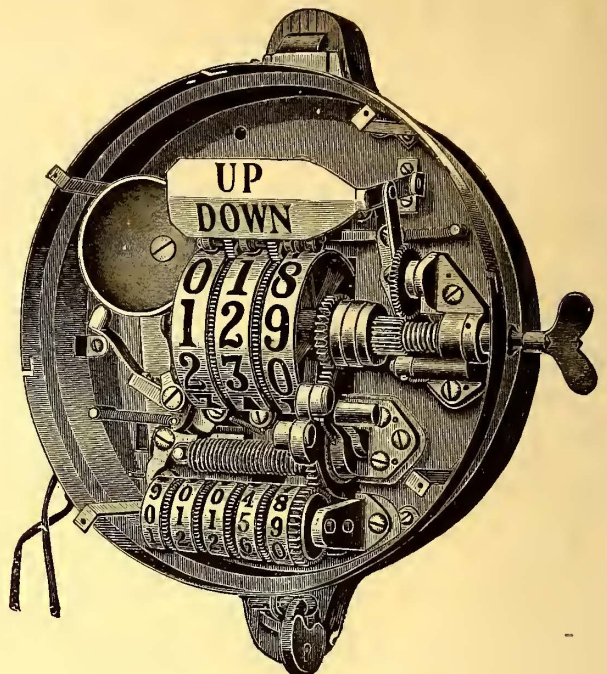
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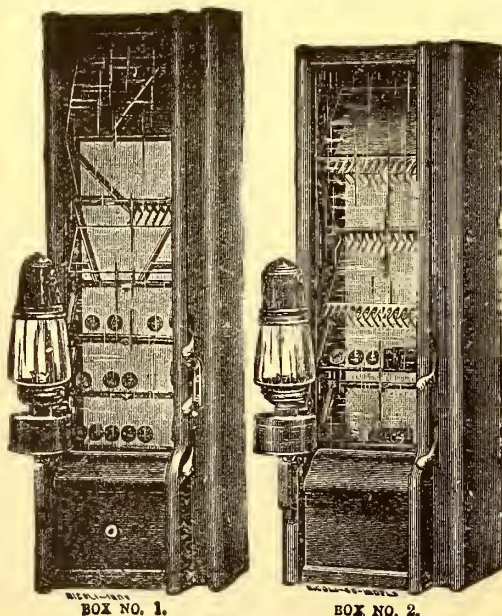
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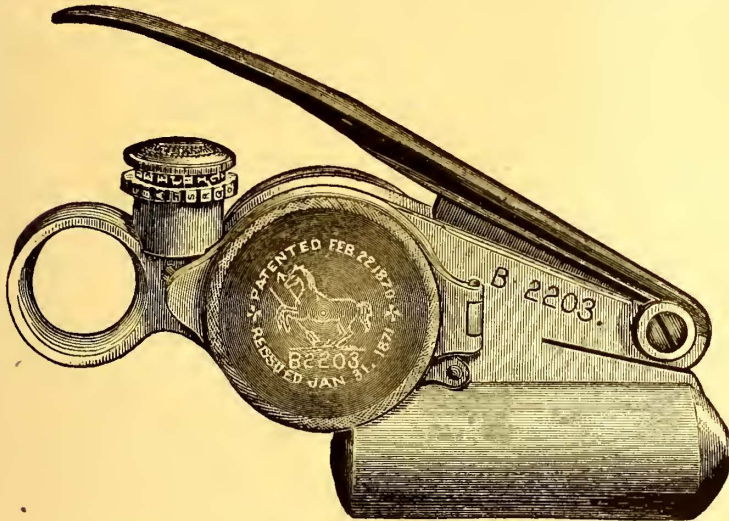
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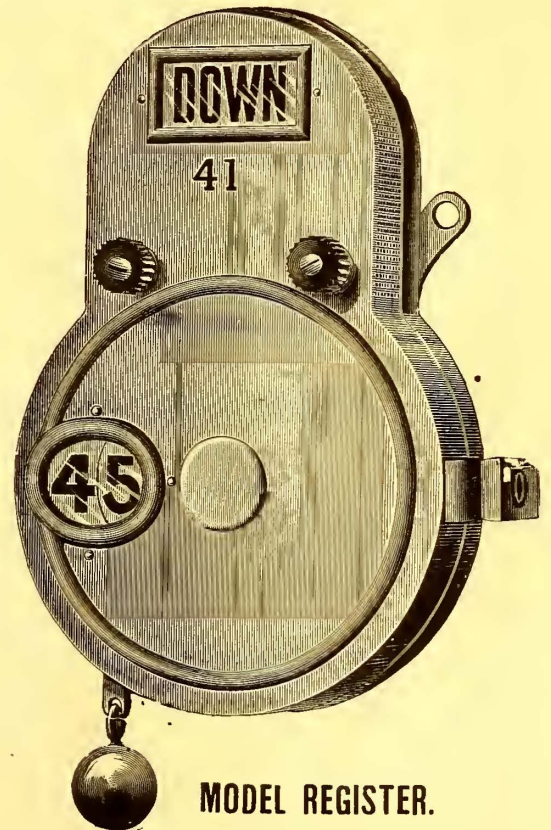
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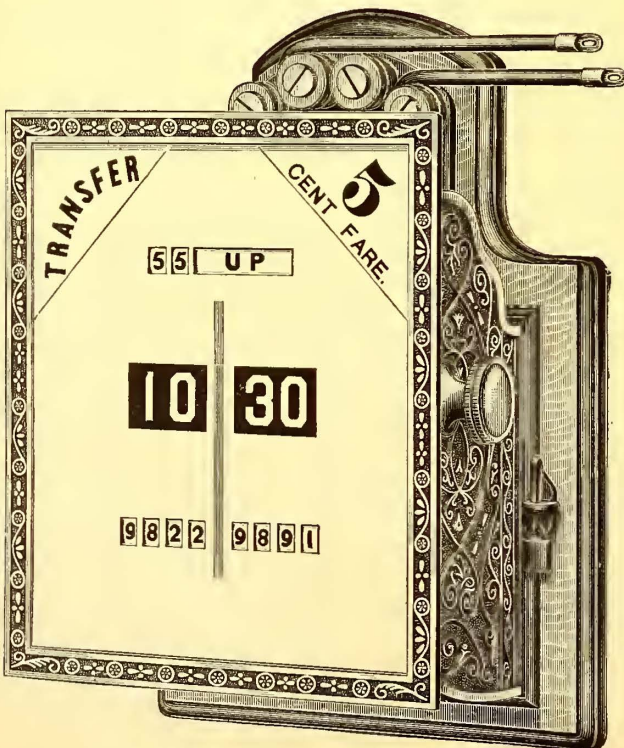
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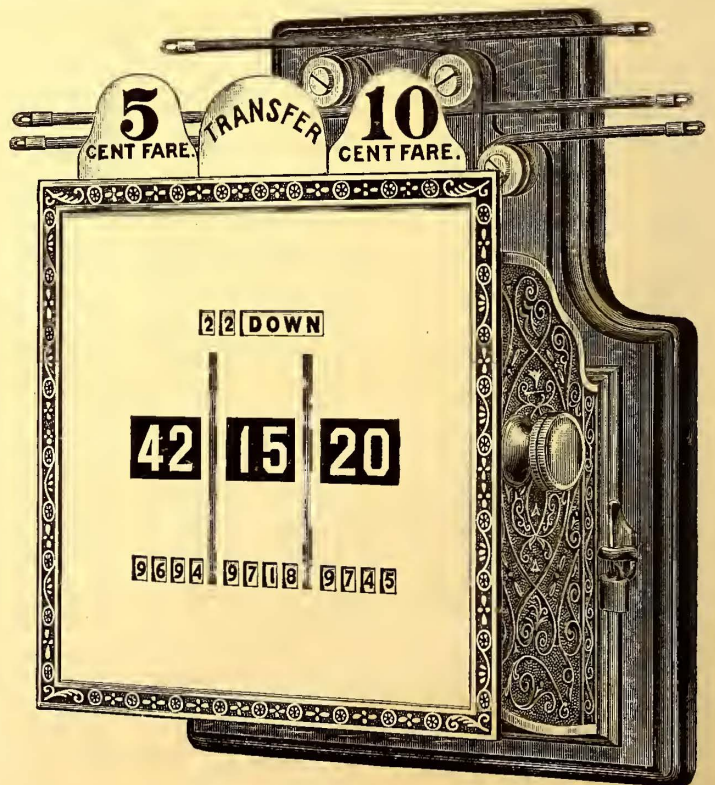
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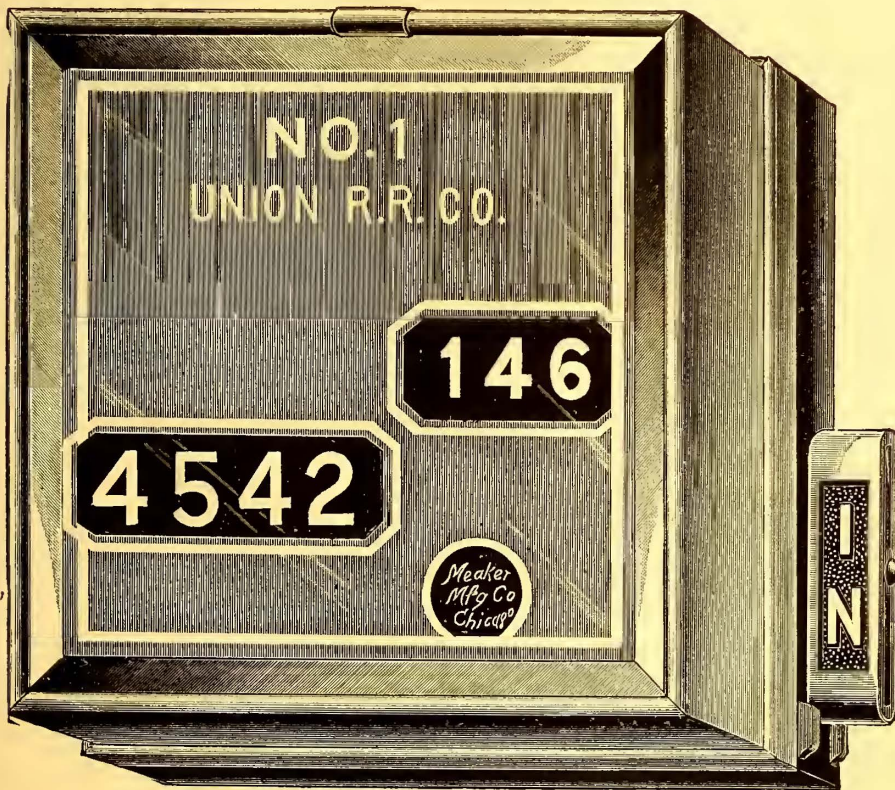
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REGISTERS.

Our Registers are in use in All the Principal Cities.



OUR NEW PORTABLE.



Our New 1894 Stationary. (Cases in Nickel or Bronze.)

We express all amounts in **PLAIN** Figures, and not by part figures, part dots, and part dashes as in all Clock Registers.

Three Figure Trip. Face Protected by One-Fourth Inch Bevel Plate Glass.

The name of the Company Purchasing will be placed on the face of all Machines ordered unless otherwise directed.

FOR REFERENCE, TERMS, ETC., ADDRESS



FAC-SIMILE OF FIGURES USED IN STATIONARY REGISTER.

MEAKER MANUFACTURING CO.

Office and Factory,

USED BY 500 RAILWAY COMPANIES.

NORTH CHICAGO, ILL.

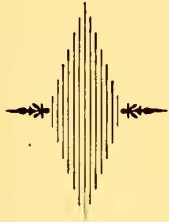


Sterling { Brakes,
Fenders,
Sand Boxes,
Registers.

Sterling Supply & Mfg. Co. 97 BANK STREET,
New York.

• THE •

Pintsch Gas Lighting System



Has been adopted as the **STANDARD LIGHT** by the Broadway and Third Avenue Cable Lines of New York City; the North and West Chicago Cable lines, and the Columbus Central Electric Line of Columbus, O., also by sixty of the most prominent railways and by the Pullman and Wagner Palace Car Companies in the United States.

It has been the standard lighting system in Europe for many years, and is applied to 55,000 cars in Europe, the United States, South America, India and Australia.

For particulars address

The Safety Car Heating and Lighting Company,
160 BROADWAY, NEW YORK.

Electric Heaters for Street Cars :

1,103 Car Equipments sold from Aug. 1 to Dec. 1. West End, Boston; People's Traction, Philadelphia; Nassau Ry., Brooklyn; Union Ry., Providence, and Buffalo Ry., have recently ordered over 700 Car Equipments.

Pope Light Compressed Oil Gas :

Interchangeable with "Pintsch;" and superior thereto. Uses same gas as "Pintsch." In Great Britain 14,262 steam and cable cars already equipped. Patents guaranteed.

CONSOLIDATED

Steam Heating from the Locomotive :

Locomotive Equipments, Direct Steam, Commingler, Storage and Multiple Circuit Systems. Cars equipped 6,199. **SEWALL COUPLERS** sold 55,617; the standard in U. S. and Canada.

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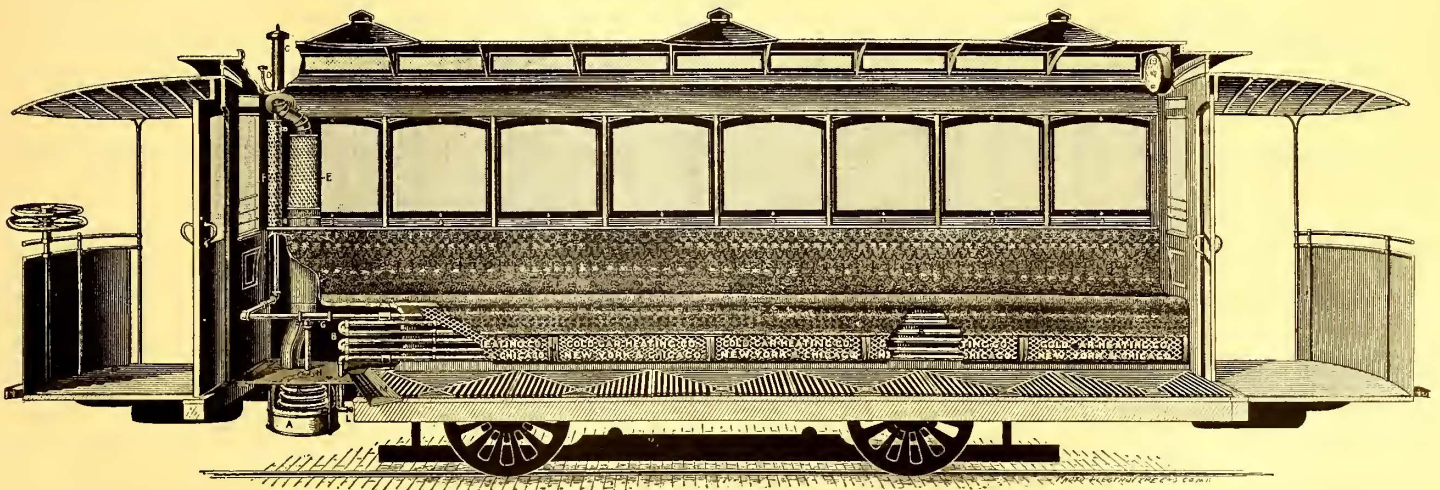
CAR-HEATING CO

Albany, N. Y., 413-423 North Pearl Street :
CHICAGO, 200 WESTERN UNION BLD'G; Canada, Coaticook, P. Q. — London — Moscow. Specially tested fittings and car lighting repair parts at reasonable prices. Electric Heaters for offices.

GOLD

No. 6 Bridge Stores, New York.
No. 652 Rookery, Chicago, Ill.

STREET CAR HEATING CO.



The Gold Sealed Jet System of Circulation, as shown in the above illustration, is now being applied to the entire equipment of the Metropolitan Street Railway Company.

At the end of the present season it will have been used in 400 cars of the Third Avenue Railroad.

Our Electric Heaters have been pronounced by experts to be the most simple, economical and efficient yet placed upon the market.

THE COLUMBIA Magazine Cast Iron Street Car Heater.

(PATENTED.)

The only PRACTICAL, RELIABLE, ECONOMICAL HEATER.



**

Careful tests last Winter show that Electric Heating Cost NINE (9) Times as much as Stoves. Can you afford it?

Do not cut nor mutilate the car or seats.

Supported above the seat, but not touching it.

Cool exterior, does not burn the seat, nor make passengers in contact with it uncomfortable.

Can be set up or removed in ten minutes.

Can be set on floor of cross-seat car.

**

**

Self-feeder, requiring no attention from conductor for twelve hours.

Economical, costs 10 cts. per day to heat a 20 foot car in cold weather.

Handsome appearance, nickel plated frame, and hard wood finish.

Cast iron stove, will not burn out.

Clean, no dirt, ashes, nor coal, except that carried in the magazine.

Over 1600 in use in ELECTRIC and Cable Cars.

**

M. K. BOWEN,
Superintendent.

Office of CHICAGO CITY RAILWAY CO.,
2020 STATE STREET.

TESTS ON HEATING CARS, CHICAGO CITY RAILWAY.

Chicago, July 6, 1895.

During last severe winter 76 motor cars with anthracite-coal stoves of magazine or self-feeding pattern, and 10 motor cars with 2 types of electric heaters were operated. Cars 21 feet long, with no vestibule. Back and front doors opened occasionally in actual service. Tests were made for heating cars to 35° F. above outside temperature.

Hard coal delivered to barns cost \$5.35 per ton. Stove consumed 1 2/3 pounds per hour.
Coal delivered at power station at \$1.40 per ton. Electric heaters consumed 6.2 amperes.

Estimated interest at 6 per cent. Electric heaters at \$50.00 and Stoves at \$25.00,
Estimated depreciation 10 per cent. Electric heaters, and 20 per cent. Stoves,
Repairs and care,
Cost power or fuel consumption,

Electric Heaters.	Hard-Coal Stove.
.0082	.0041
.0137	.0137
.0020	.0067
.9360	.0803

Total cost per day of 18 hours, .9599 .1048

M. K. BOWEN, Superintendent.

Main Office and Works,

McGuire Manufacturing Company,
122-132 N. Sangamon St., Chicago.

Eastern Office,

1302 Havemeyer Building,
New York.

← **McGUIRE** →

COMBINATION SNOW PLOW AND SWEEPER.

→→→ **TWO SAMPLE LETTERS.** ←←←

TOLEDO, OHIO, January 28, 1895.

McGuire Manufacturing Co., Chicago, Ill.

GENTLEMEN:—Replying to your recent inquiry in regard to the efficiency of your sweepers, we are pleased to be able to say that they have worked to our entire satisfaction.

During the two recent snow storms we have been able to keep our sixty-five miles of track so that we have scarcely lost a trip. The two sweepers were each in continual service during the storm of January 12th and 13th, from 6 P. M. Friday, January 11th, until the following Sunday night at midnight, without any delay or mishap.

During this storm on one of our roads, which was exposed to the high winds and drifting snow, we ran up grade through from twelve inches to two feet of snow, one continuous drift, for nearly a mile without experiencing any difficulty.

We have heard many complimentary remarks from prominent business men, testifying to the good work done by the sweepers. Without them we should have certainly been tied up during both the storms mentioned.

We feel that you should certainly congratulate yourselves upon your success as manufacturers of electric snow sweepers.

Yours very truly,

THE TOLEDO CONSOLIDATED STREET RAILWAY CO.

(signed) WINFIELD S. JEWELL, General Manager.



March 14, 1895.

McGuire Manufacturing Co., 122 N. Sangamon St., City.

GENTLEMEN:—In reply to your favor of the 6th inst., in reference to combination snow plow and sweeper, I beg to say that the sweeper purchased of you a short time since has given satisfaction in every particular. During the last heavy snow storm it was operated fifty-five consecutive hours without any break downs or trouble of any nature. We succeeded in removing banks of snow from three to six feet in height, and in removing snow for several blocks three feet deep, without any interruption. The plows attached to the side of the sweeper are very useful, in the fact that they remove the snow sufficient distance from the track to allow the sweeper on the next trip to throw what snow has fallen some distance away from track and over the bank already left. If we intended purchasing another sweeper for next winter's use, we most certainly would duplicate our last order to you. Very truly yours,

E. D. DuBois, Sup't.,

THE CALUMET ELECTRIC STREET RAILWAY CO.

Unequaled success. Never has failed once through the past severe winter.

Send for blue prints and prices.

FOR ADDRESS OF MANUFACTURER SEE OPPOSITE PAGE.

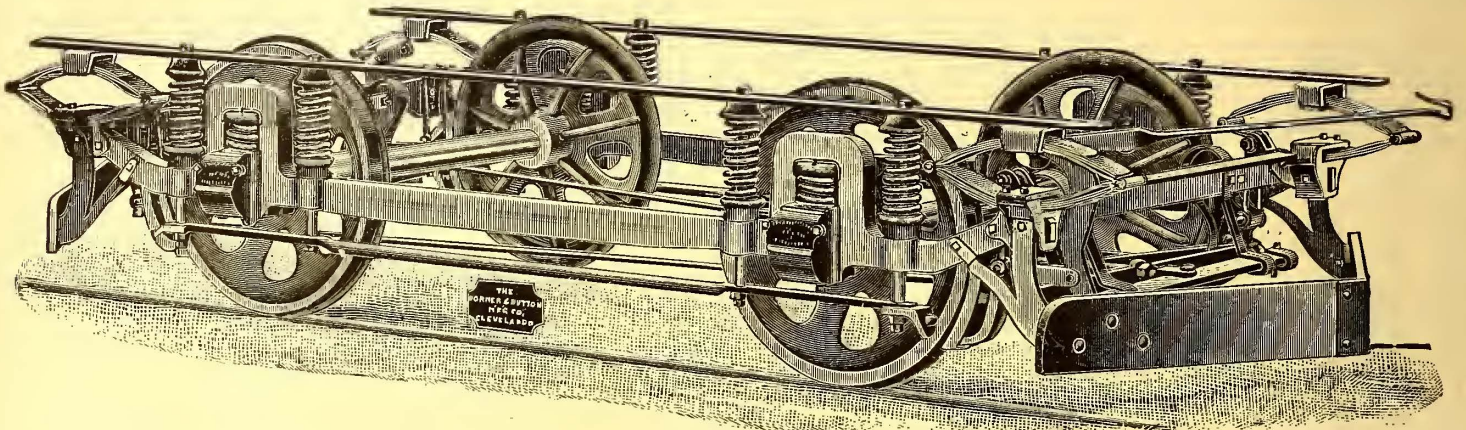
THE DORNER & DUTTON MFG. CO.,

CLEVELAND, OHIO.

MANUFACTURERS OF

Electric
AND
Trail Car

TRUCKS.

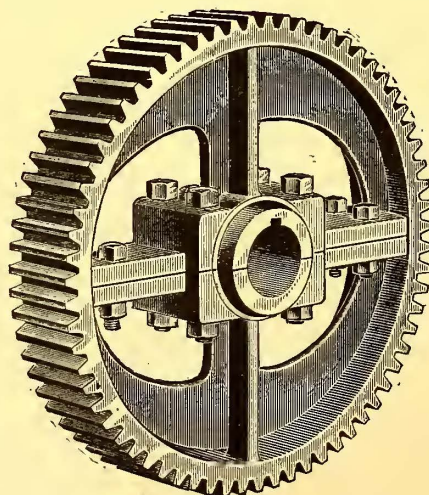


Solid Forged Motor Truck, No. 25A. Spring Suspended.

GEARS AND PINIONS

For all Styles and Types of Motors.

Pinions of Hammered Steel
or Rawhide.
Motor Bearings, Trolley
Wheels.



Journal Bearings and all
kinds of Brass and
Iron Castings.

ACCURACY AND GOOD WORKMANSHIP OUR SPECIAL CLAIMS.

PLEASE WRITE FOR NEW PRICE LIST.

ABNER DOBB CO., Pacific Coast Agents,
13 & 15 Fremont St., San Francisco, Cal.

D. A. STARR, Agent for Canada,
431 Board of Trade Bldg., Montreal.

FULLY ADJUSTED TO THE WEIGHT OF THE CAR TO BE SUPPORTED

PRICE LISTS, BLUE PRINTS AND OTHER INFORMATION CHEERFULLY FURNISHED UPON APPLICATION TO

PECKHAM MOTOR TRUCK AND WHEEL COMPANY

GENERAL SALES OFFICE
HAVEMEYER BUILDING 26 CORTLANDT ST NEW YORK

BRANCH OFFICES

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PHILADELPHIA 420 WALNUT ST.

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PITTSBURGH 713 HAMILTON BUILDING

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LONDON S.W

WORKS AT KINGSTON, N.Y.

THE PECKHAM MOTOR TRUCK AND WHEEL COMPANY

DESIRES TO EXTEND TO ITS FRIENDS IN EUROPE AND AMERICA

ITS HEARTY
NEW-YEAR'S GREETINGS.

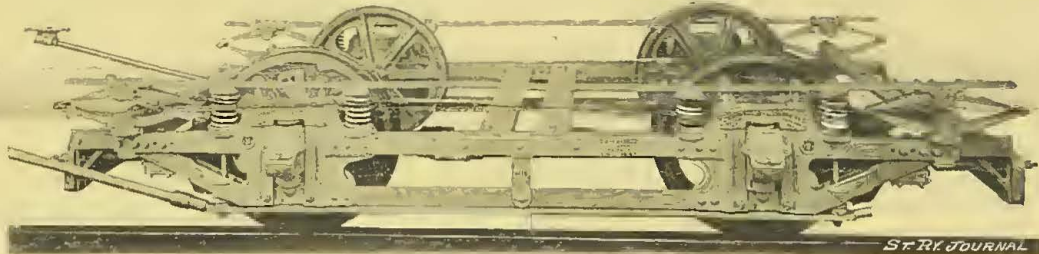
AND TO SAY THAT IT CANNOT WISH THEM A GREATER MEASURE OF PEACE AND PROSPERITY THAN WILL COME TO THEM WITH THE EXCLUSIVE USE ON THEIR STREET RAILWAY SYSTEMS OF THE
PECKHAM CANTILEVER EXTENSION TRUCKS.

A FEW WORDS ABOUT THE CHOICE OF TRUCKS FOR DIFFERENT CLASSES OF SERVICE WILL BE OF VALUE TO OUR PATRONS.

WE DON'T BELIEVE IN MAKING A BOY DO A MAN'S WORK NOR IN TRYING TO ADAPT ONE STYLE OF TRUCK FOR ALL KINDS OF SERVICE AND ALL LENGTHS AND WEIGHTS OF CAR BODIES. OUR EXPERIENCE IS THAT IT CANNOT BE DONE SUCCESSFULLY. A TRUCK WHICH IS BUILT WITH SPECIAL REFERENCE TO A SIXTEEN FOOT CAR BODY IS TOO LIGHT FOR A TWENTY-TWO FOOT CAR, AND A TRUCK WHICH WILL PROPERLY SUPPORT A TWENTY TWO FOOT CAR BODY IS TOO HEAVY FOR A SIXTEEN FOOT CAR. FOR THIS REASON WE HAVE DESIGNED THE PECKHAM TRUCKS TO SUIT DIFFERENT CLASSES OF SERVICE, AND

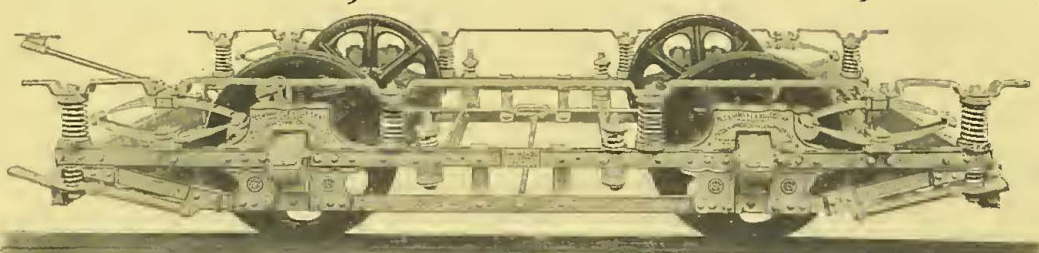
WE RECOMMEND

FOR 16 FT. CLOSED, OR 24 FT. OPEN CARS,



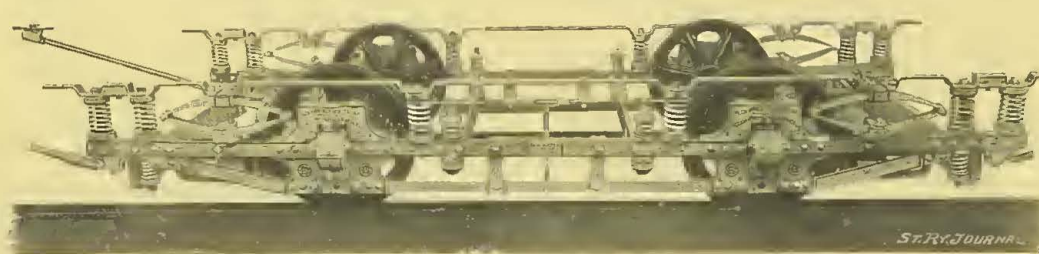
PECKHAM'S EXCELSIOR EXTENSION TRUCK:

AND FOR 18 FT. CLOSED, OR 26 AND 28 FT. OPEN CARS,



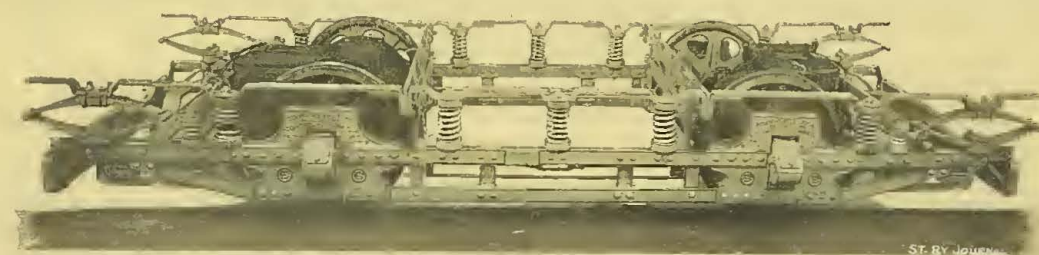
PECKHAM'S STANDARD ALL STEEL EXTENSION TRUCK:

AND FOR 20 FT. AND 22 FT. CLOSED, AND 30 FT. OPEN CARS,



PECKHAM'S EXTRA LONG ALL STEEL EXTENSION TRUCK:

AND FOR EXTRA HEAVY 20 FT. OR 22 FT. VESTIBULED, STORAGE BATTERY, OR OTHER CARS FOR SEVERE SERVICE,



PECKHAM'S EXTRA STRONG, EXTRA LONG TRUCK
DESIGNED EXPRESSLY FOR THIS CLASS OF WORK:

AND FOR 24 FT. TO 30 FT. CLOSED, OR 40 FT. OPEN CARS,



PECKHAM'S DOUBLE CUSHIONED SWIVEL TRUCK:

SPECIAL NOTICE.

ALL OF THE PECKHAM TRUCKS EMBODY THE SAME GENERAL PRINCIPLES AND ARE MADE WITH THE SAME DEGREE OF CARE. ALL WORKING JOINTS ARE CAREFULLY MACHINED TO A STANDARD SIZE (TO PREVENT LOST MOTION) AND ALL RIVETS ARE DRIVEN HOT BY A PNEUMATIC RIVETER. PECKHAM'S PATENT BRAKES AND JOURNAL BOXES ARE USED ON ALL PECKHAM'S TRUCKS. ALL SPRINGS ARE CAREFULLY ADJUSTED TO THE WEIGHT OF THE CAR TO BE SUPPORTED.

PRICE LISTS, BLUE PRINTS AND OTHER INFORMATION CHEERFULLY FURNISHED UPON APPLICATION TO

PECKHAM MOTOR TRUCK AND WHEEL COMPANY

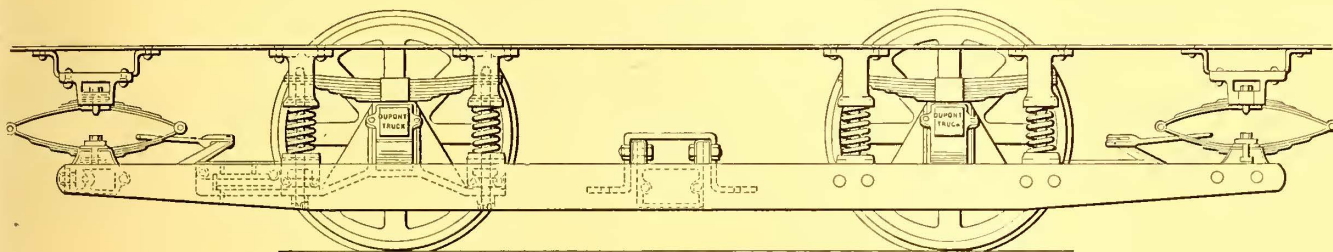
GENERAL SALES OFFICE
HAYMEYER BUILDING 26 CORTLAND ST NEW YORK
BRANCH OFFICES

BOSTON EXCHANGE BLDG. 53 STATE ST. PHILADELPHIA 420 WALNUT ST.
CHICAGO 1137 & 1138 MONADNOCK BLDG. SAN FRANCISCO 123 CALIFORNIA ST.
PITTSBURGH TIS HAMILTON BUILDING LONDON 59 VICTORIA ST WESTMINSTER
WORKS AT KINGSTON, N.Y. LONDON S.W.

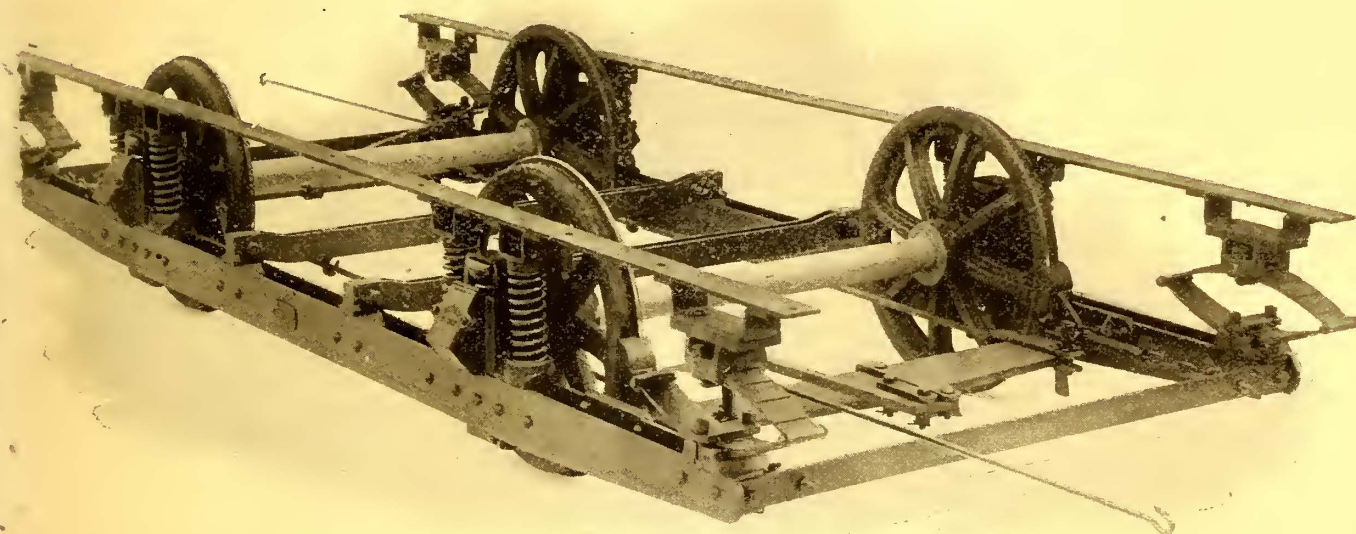
THE DUPONT TRUCK

|| COMBINES ||

Strength, Durability and Simplicity of Construction,
 Continuous Side Bars, Frame Free from Bolts,
 Extended Spring Base, Minimum Oscillation.



STYLE C.—SPRING BASE FROM 12 TO 16 FEET.



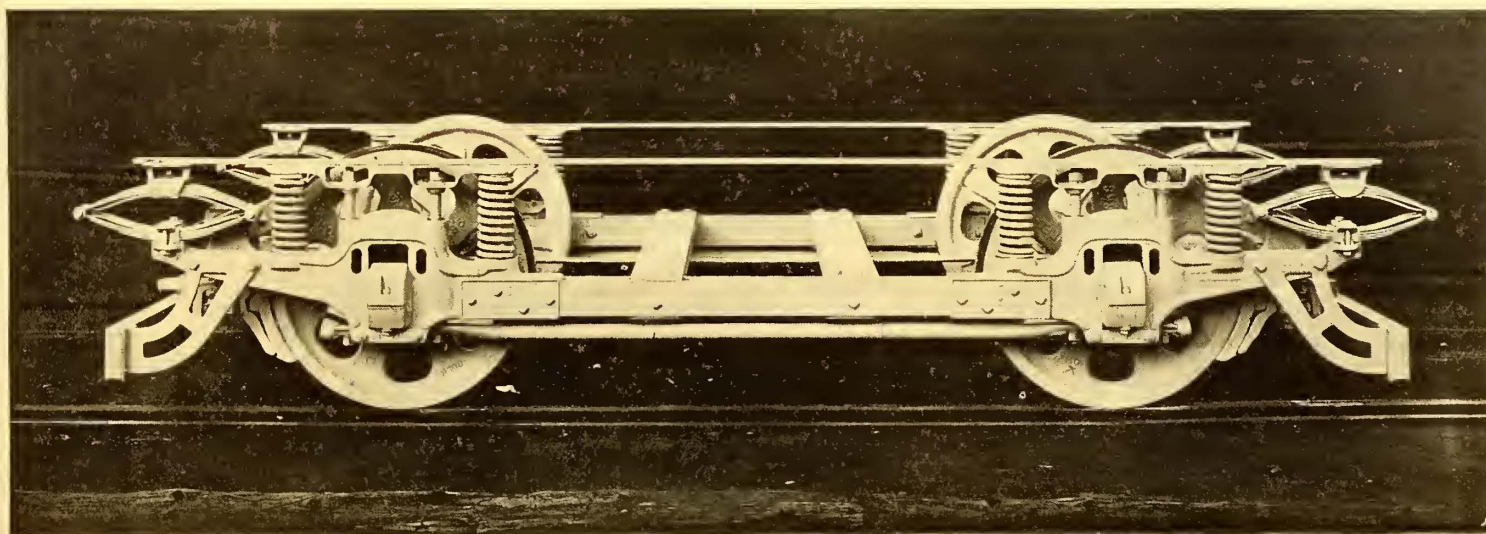
STYLE B.—SPRING BASE, 16 FEET.

THE SIMPLEST ALWAYS THE BEST.

—WRITE FOR ESTIMATES.—

THE JOHNSON COMPANY,
JOHNSTOWN, PA.

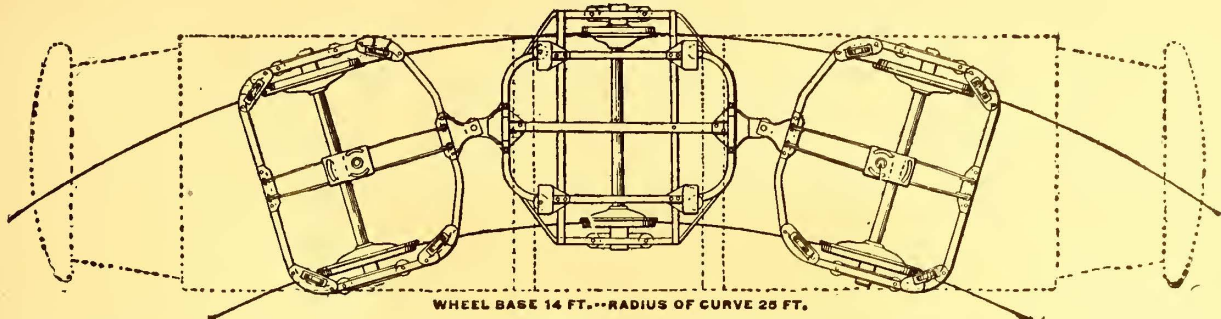
THE STANDARD MOTOR TRUCK.



**BEMIS CAR BOX CO.,
Springfield, Mass.**

Have you seen our No. 30 Traction Truck
For Double Truck Cars?
If not, write us.

ROBINSON RADIAL TRUCK



WHEEL BASE 14 FT.—RADIUS OF CURVE 25 FT.

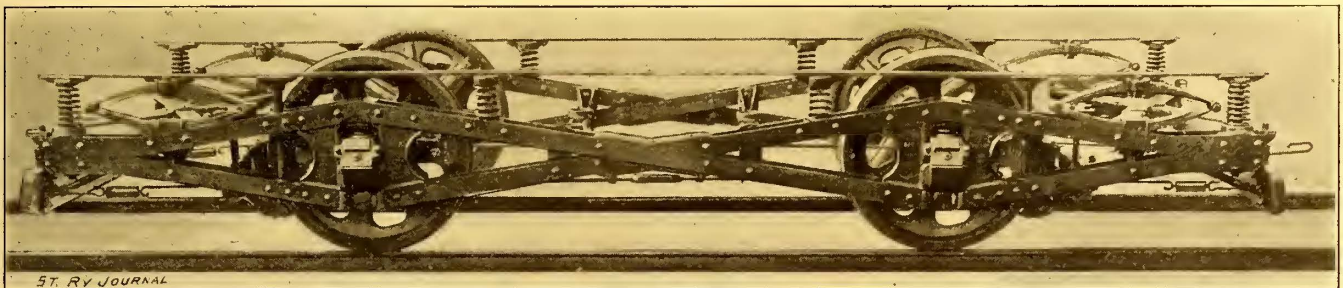
IN USE FROM MAINE TO CALIFORNIA, FROM BRITISH COLUMBIA TO BRAZIL; ALSO IN EUROPE.

ROBINSON ELECTRIC TRUCK & SUPPLY CO.

620 Atlantic Avenue, BOSTON, MASS.

WM. ROBINSON, General Manager.

DIAMOND TRUCK & CAR GEAR CO., WORKS AT KINGSTON, N. Y.



ST. RY JOURNAL

The latest Truck out, overcoming defects of other manufacturers. It is stronger, easier riding, and costs less to maintain than any other truck in existence. Adapted to all styles of motors. For blue prints, testimonials, or other information, address,

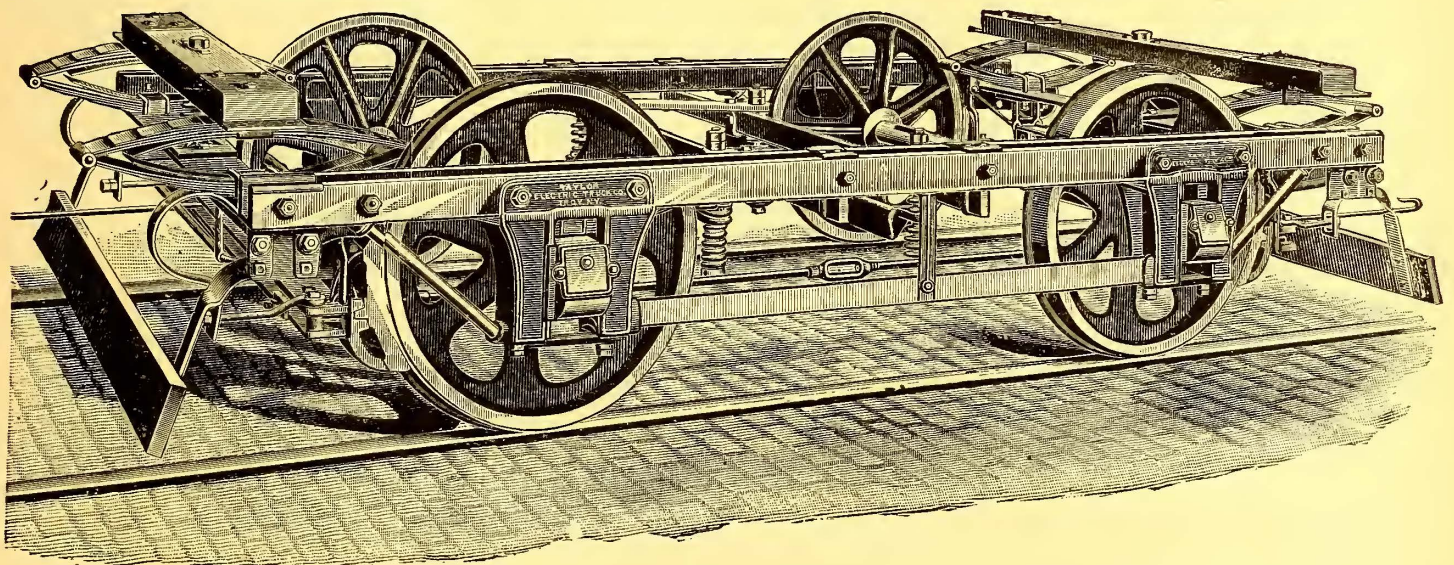
Spiral Springs if preferred.

DIAMOND TRUCK & CAR GEAR CO., Kingston, N. Y.

This Truck was under Car No. 55 with blue flags, built by Ottawa Car Co., running by Windsor Hotel, at Montreal Convention.

TAYLOR ELECTRIC TRUCK CO.,

TROY, N. Y.



The Taylor Improved Single Truck
and Empire State Radial Truck.

**SAVE TRACK.
SAVE CAR BODY.
SAVE MOTORS.
SAVE REPAIRS.**

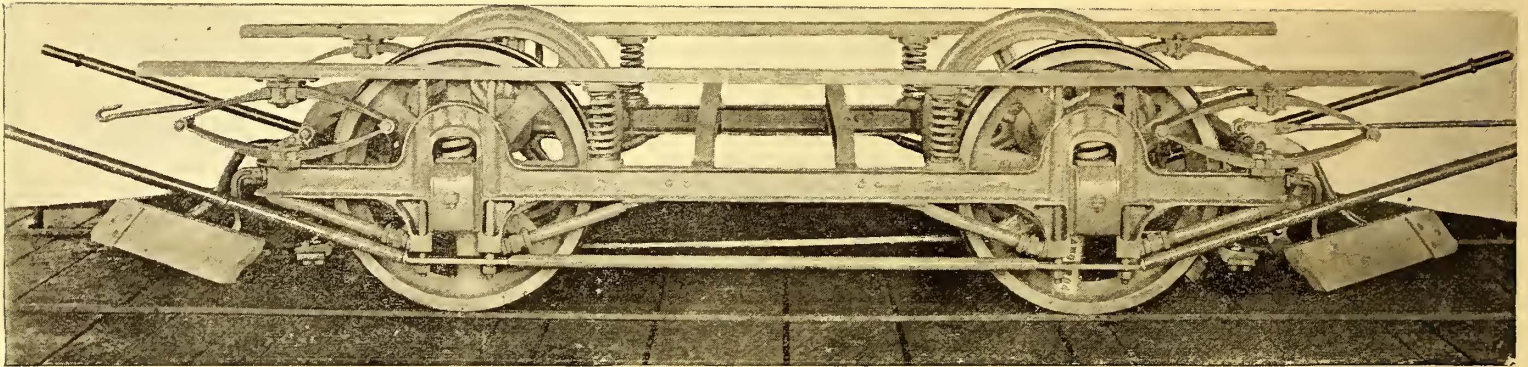
The Fulton Truck and Foundry Co., Mansfield, Ohio,

MANUFACTURERS OF

IMPERIAL TRUCKS

FOR

Electric, Cable and Trail Cars, Open or Closed Cars.



OUR IMPERIAL O. C. STANDARD.

Write for prices on Trucks, Wheels and Axles, Turntables, Transfer Tables, R. R. Crossings, Switches, Turnouts, Special Work, Door Fasteners, Draw Bars, Track Cleaners, Sand Boxes, Wheel Presses, Motor Lifts, etc.

JAMES A. TRIMBLE,

218 East 28th St., New York.



HORSE, CABLE AND ELECTRIC CARS.

WOODWORK

FOR CARS OF ANY STYLE
FURNISHED COMPLETE

And ready for construction, to Railroad Companies
who build their own cars.

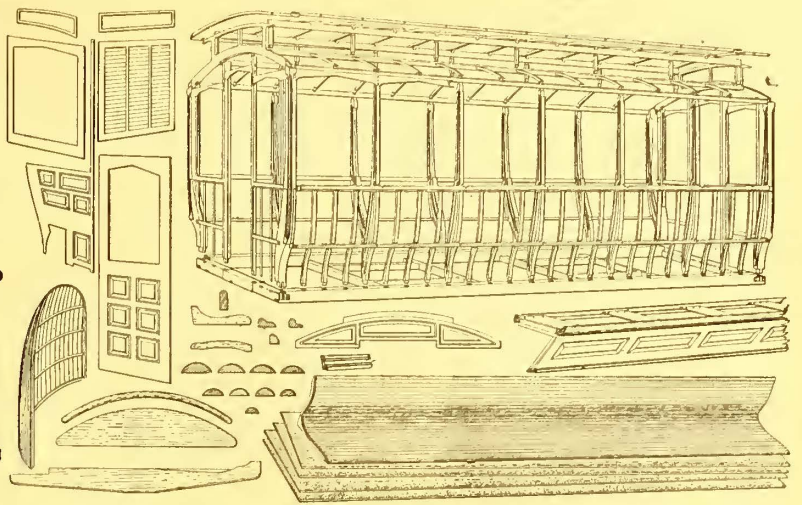
ALL PARTS **FOR REPAIRS** FURNISHED TO PATTERNS.

BEST WORKMANSHIP GUARANTEED.

Send for particulars and prices.

J. P. Sjoberg & Co.,

155-157 11th Ave., New York City.



JAMES A. TRIMBLE,

—MANUFACTURER OF—

RAILROAD CAR WOOD WORK.

Plain and Carved Mouldings, Doors, Sashes, Blinds, Pillars and Sills, all Patterns.

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MASSACHUSETTS CAR CO.

BUILDERS OF

Railway Cars & Snow Plows.

BOSTON OFFICE:

ROOM 514 EXCHANGE BUILDING,

Works at Ashburnham, Mass. * **BOSTON, MASS.**

WASON MANUFACTURING COMPANY,

SPRINGFIELD, MASS.

ESTABLISHED 1845.

—BUILDERS OF—

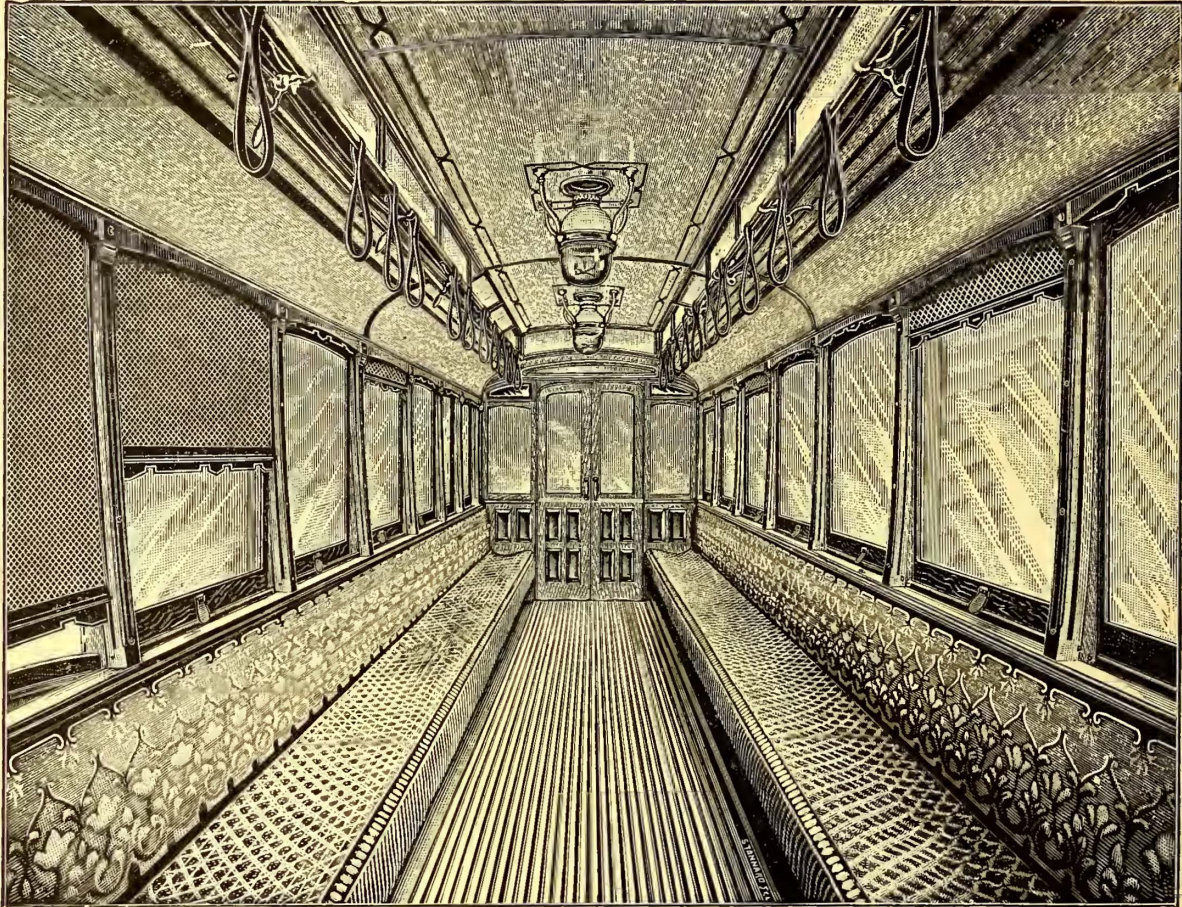
STREET CARS

FOR EVERY DESCRIPTION OF MOTIVE POWER.

Post office Address, BRIGHTWOOD, MASS. Cable Address, WASON, SPRINGFIELD.

THE LACLEDE CAR CO.,

— ST. LOUIS, MO. —



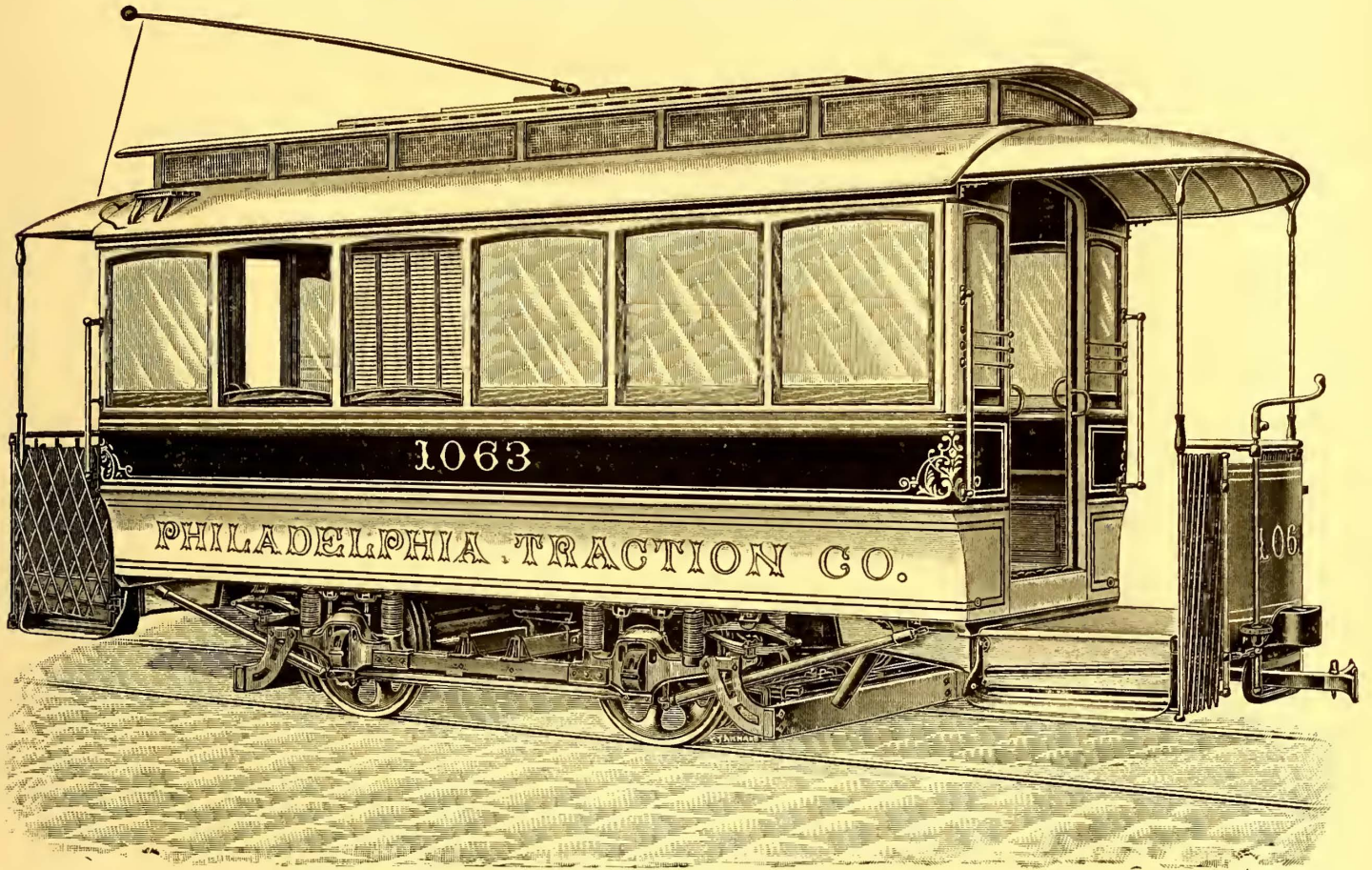
INTERIOR OF CAR BUILT FOR THE BROADWAY CABLE LINE, NEW YORK CITY.

Builders of Street Cars of Every Description.



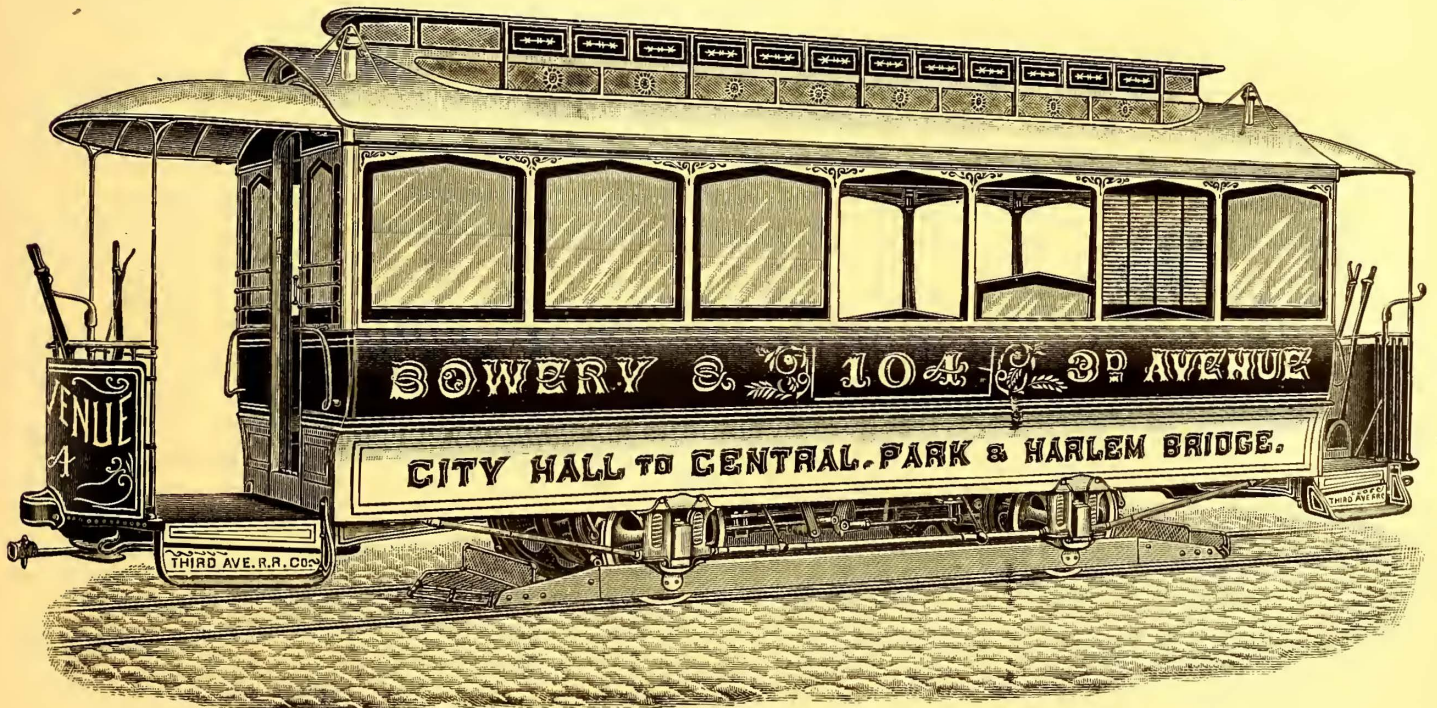
THIS CUT REPRESENTS ONE OF THE CARS BUILT FOR THE BROADWAY CABLE LINE, OF NEW YORK CITY.

The Laclede Car Co., ST. LOUIS, MO.



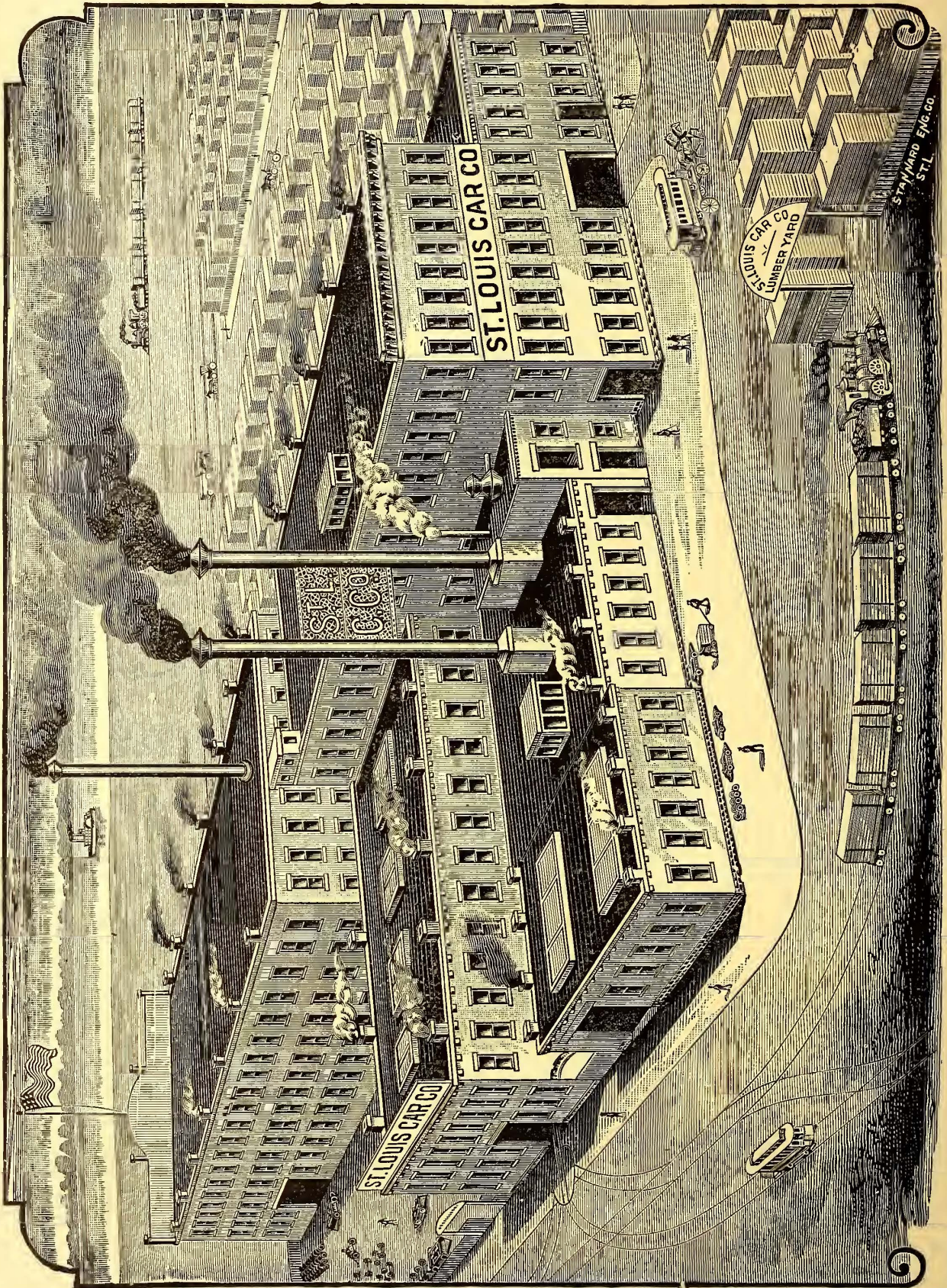
THIS CUT REPRESENTS ONE OF THE 550 CLOSED CARS WE ARE FURNISHING
THE PHILADELPHIA TRACTION CO.

Builders of Street Cars of Every Description.



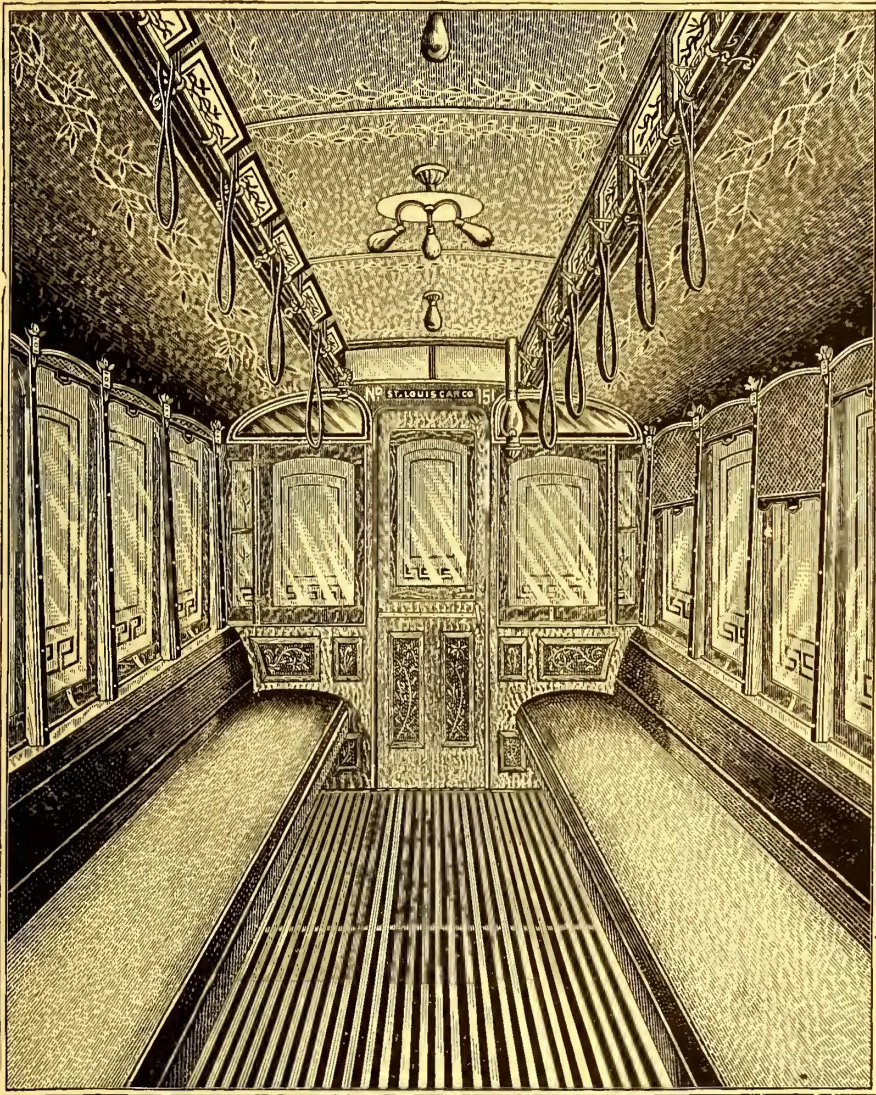
THIS CUT REPRESENTS ONE OF THE 200 CARS BUILT FOR THE THIRD
AVENUE R. R. CO., OF NEW YORK CITY.

The Largest and Most Complete Street Car Factory in the World.





PERSPECTIVE VIEW OF THE NEW WORKS OF THE ST. LOUIS CAR CO.

EASTERN AGENTS:
EDMUND D. SMITH & CO.,
 208 S. 4th St., Philadelphia. Pa.



INTERIOR FINISH OF FANCY ELECTRIC CAR

ST. LOUIS 
 **CAR CO.,**

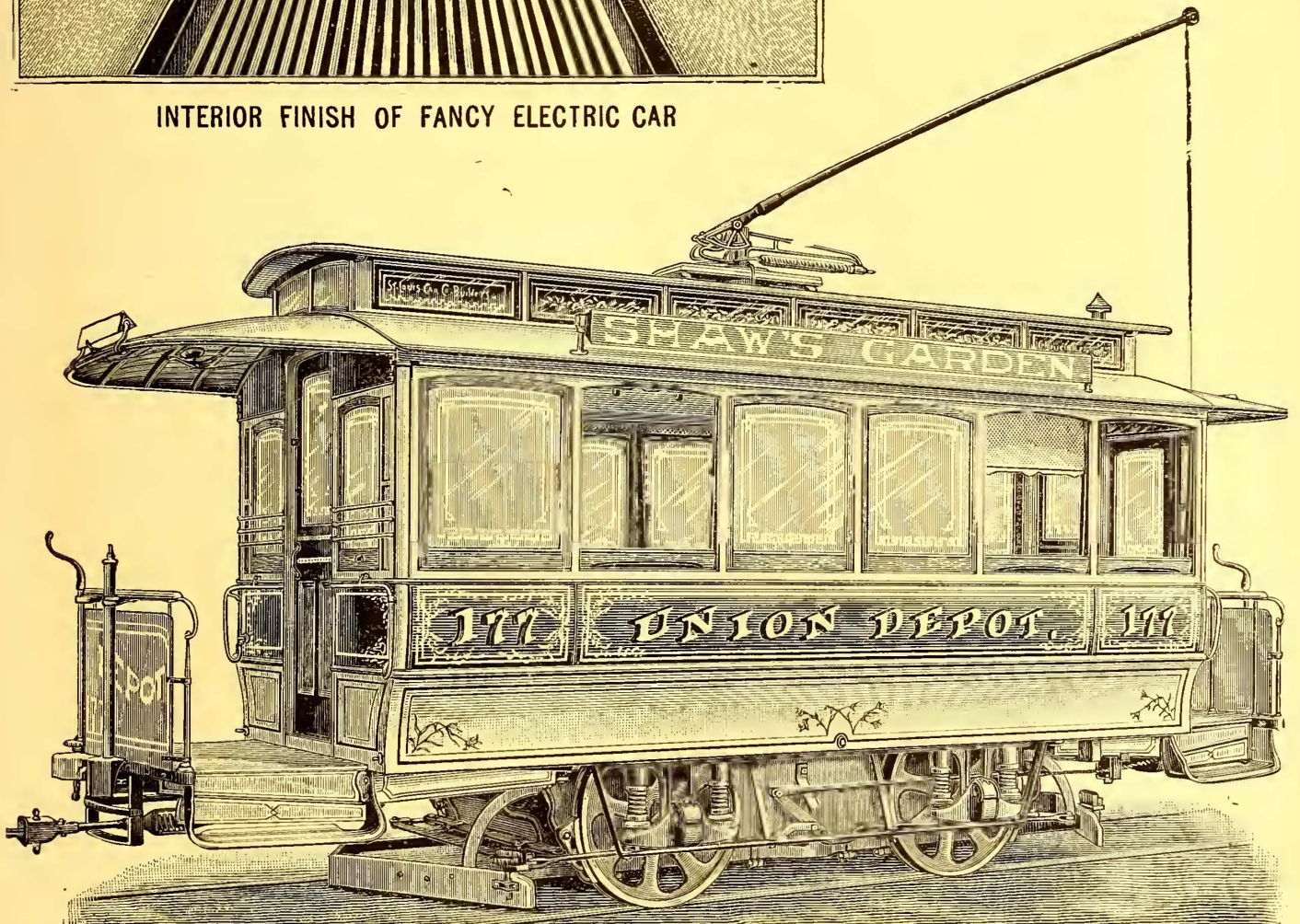
Manufacturers of all kinds of

MOTOR CARS,
ELECTRIC CARS
AND TRUCKS

A SPECIALTY.

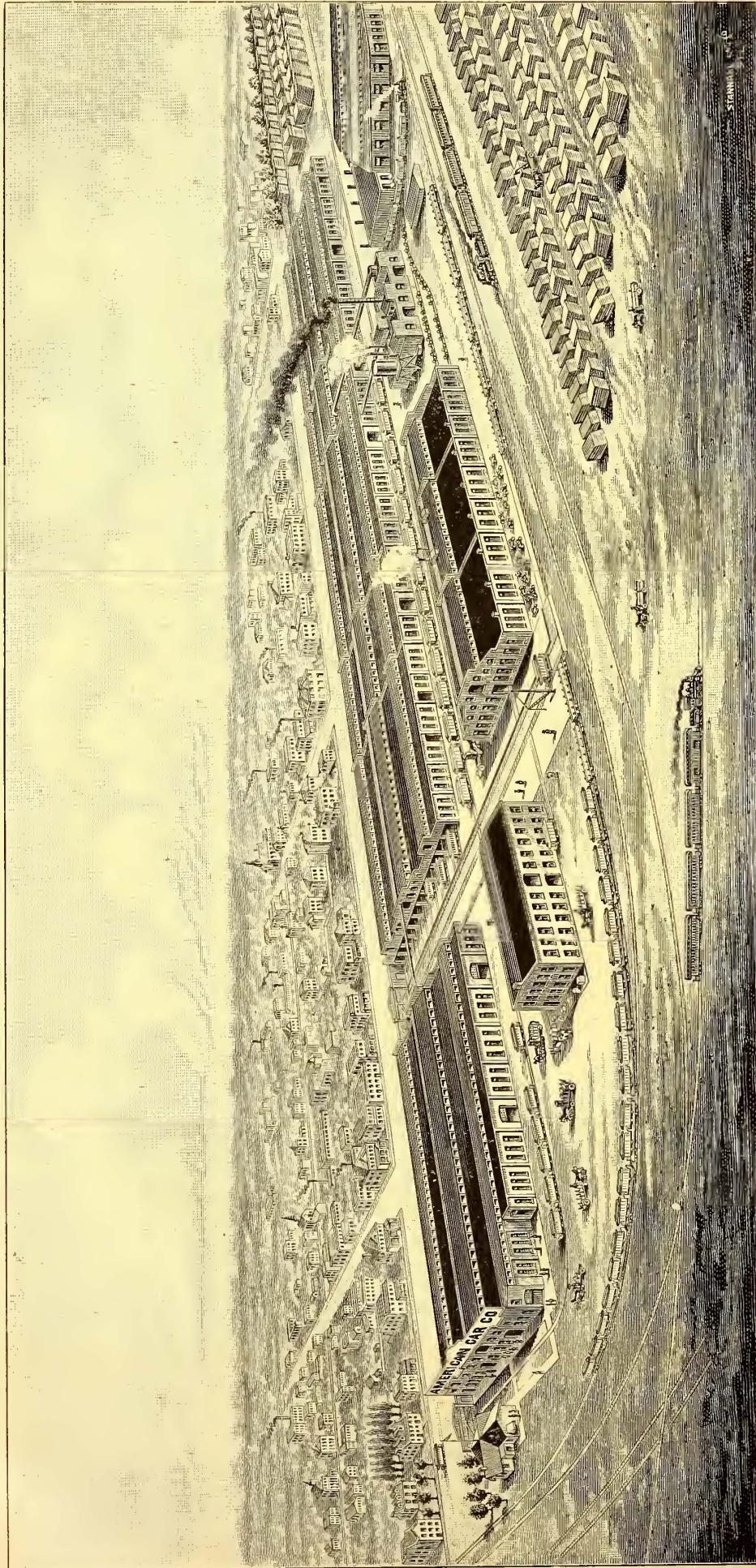
OFFICE:

**3,023 N. Broadway,
ST. LOUIS.**



16 FOOT CLOSED CAR MOUNTED ON PATENT ENCLOSED ELECTRIC TRUCK.

AMERICAN CAR CO.



St. Louis, Mo.

STREET
 CARS AND
 TRUCKS

FOR ALL KINDS OF

MOTIVE POWER.

Suburban and
Elevated

Railway
Coaches.

CORRESPONDENCE SOLICITED.

WRITE FOR CATALOGUE AND PRICES.

WILLIAM SUTTON, Pres.
EMIL ALEXANDER, Secy.

Edw. J. Lawless,
 Eastern Agent,
 109 LIBERTY ST., NEW YORK.

ESTABLISHED 1850.

LACONIA CAR CO.,

LACONIA, N. H.,

BUILDERS OF

STREET CARS.



Complete Facilities, Fifty Years' Experience, Millions of feet of well Seasoned Lumber, and the Best Workmen, thus enable us to compete with all.

—ALSO MANUFACTURERS OF—

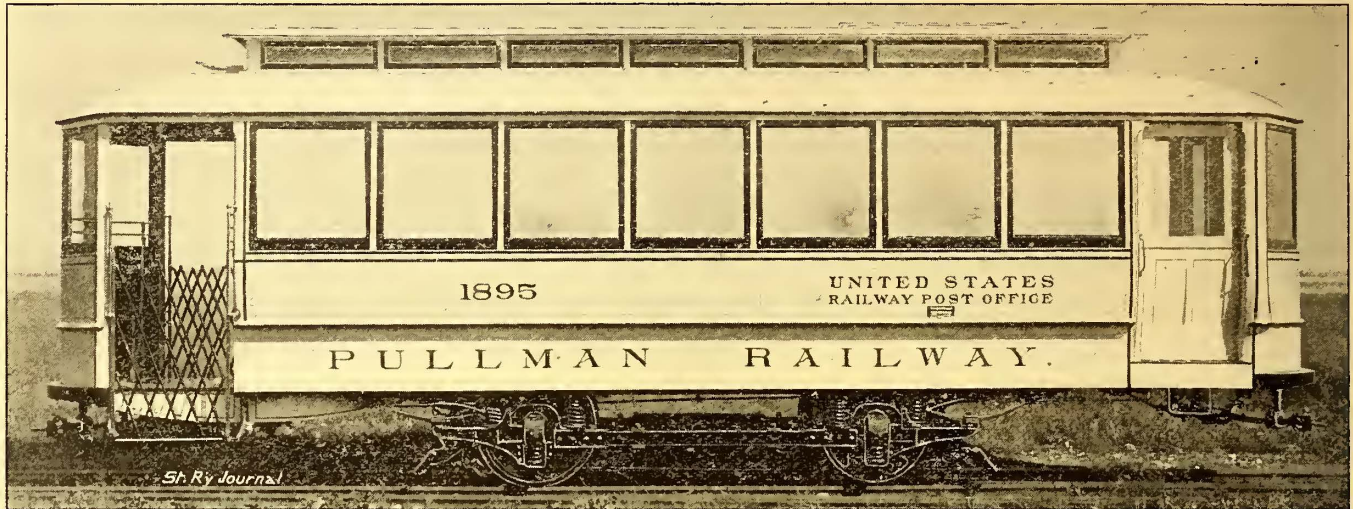
Car Wheels, Malleable Iron and Homogeneous Steel and Brass Castings.

WRITE FOR DRAWINGS AND PRICES.

Sole Manufacturers of the ONLY PERFECT AUTOMATIC STEAM TRAP.

PULLMAN'S PALACE CAR CO.

CHICAGO, ILL.



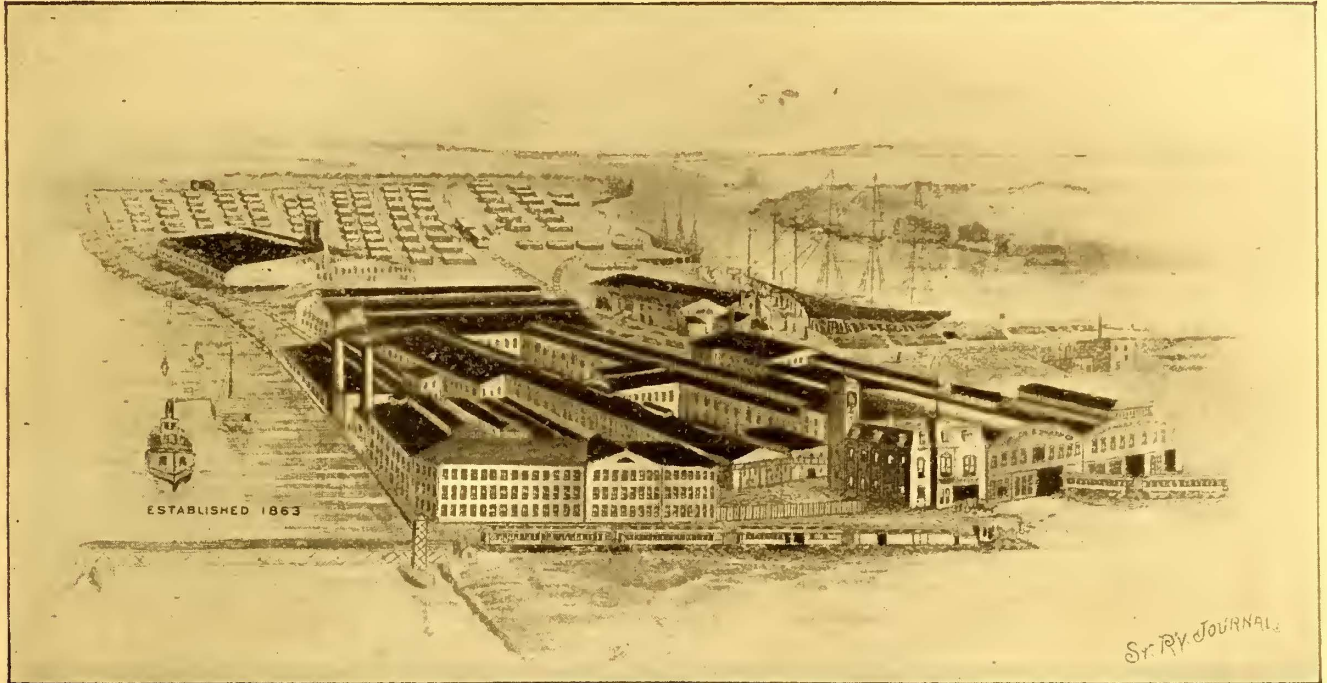
— Builders of —
**RAILROAD AND STREET RAILWAY
CARS.**



This Company, having its own Street Railway, is thoroughly equipped for mounting and testing motors and cars before shipping.

Jackson & Sharp Co.

DELAWARE CAR WORKS,
WILMINGTON, - DELAWARE,



— BUILDERS OF —

STREET RAILWAY CARS

— OF ALL KINDS. —



WRITE FOR DRAWINGS AND PRICES.

GEORGE KISSAM,

Successor to CARLETON & KISSAM.

Largest STREET CAR ADVERTISING Concern in the World.

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Postal Telegraph Building,
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CHICAGO, CINCINNATI, MINNEAPOLIS, ST. PAUL,
PITTSBURGH, BUFFALO, ROCHESTER, COLUMBUS,
DULUTH, SYRACUSE, NEW ORLEANS, BROOKLYN,
DENVER, MILWAUKEE, NEWARK, ALBANY,
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CONTROLS THE ADVERTISING PRIVILEGE IN

15 Cars of the Newport Street Railway Co., Newport, R. I.	58 Cars of the Utica Belt Line Street R. R. Co., Utica, N. Y.
73 " " Pleasant Valley Traction Co., Pittsburgh, Pa.	6 " " Plainfield St. Ry. Co., Plainfield, N. J.
91 " " Citizens' Traction Co., Pittsburgh, Pa.	50 " " Paterson Railway Co., Paterson, N. J.
60 " " Pittsburgh Traction Co., Pittsburgh, Pa.	3 " " Passaic & Newark Electric Ry. Co., Paterson, N. J.
16 " " Suburban Traction Co., Pittsburgh, Pa.	13 " " New Brunswick City Ry. Co., New Brunswick, N. J.
44 " " Pittsburgh & West End Pass. Ry. Co., Pittsburgh, Pa.	375 " " Buffalo Street and Crosstown St. Ry. Cos., Buffalo, N. Y.
39 " " Second Avenue Pass. Railway Co., Pittsburgh, Pa.	16 " " Buffalo, Bellevue & Lancaster Ry., Buffalo, N. Y.
49 " " Pittsburgh & Birmingham Traction Co., Pittsburgh, Pa.	4 " " Buffalo & Williamsville Elec. Ry. Co., Buffalo, N. Y.
16 " " McKeesport & Reynoldton Pass. Ry. Co., McKeesport, Pa.	4 " " Buffalo, Kenmore & Tonawanda R. R. Co., Buffalo, N. Y.
40 " " Cicero & Proviso Railway Co., Chicago, Ill.	10 " " Buffalo & Tonawanda Ry. Co., Tonawanda, N. Y.
1850 " " West Chicago Street Railway, Chicago, Ill.	6 " " Buffalo, No. Main St. & Tonawanda Ry. Co., Tonawanda, N. Y.
75 " " Chicago Passenger Railway Co.	6 " " Tonawanda R. R. Co., Tonawanda, N. Y.
1000 " " North Chicago Street Railway, Chicago, Ill.	6 " " Stillwater & Mechanicville St. Ry. Co., Mec'ville, N. Y.
35 " " Chicago North Shore St. Ry. Co., Chicago, Ill.	107 " " Albany Railway, Albany, N. Y.
13 " " North & East River Railway Co., New York.	125 " " Consolidated Street Railroad Co., Columbus, O.
47 " " Central Crosstown Railway, New York.	20 " " Hamilton & Lindenwald Elec. Transit Co., Hamilton, O.
41 " " Christopher & 10th St. Railway Co., New York.	27 " " Springfield Railway Co., Springfield, O.
250 " " Brooklyn City & Newtown Ry., Brooklyn, N. Y.	14 " " Madison City Ry. Co., Madison, Wis.
52 " " Steinway Railway Co., Long Island City, N. Y.	220 " " St. Paul City Railway Co., St. Paul, Minn.
160 " " Mt. Adams & Eden Park Inclined Ry. Co., Cincinnati.	65 " " Duluth Street Railway Co., Duluth, Minn.
600 " " Consolidated Cincinnati Railways, Cincinnati, O.	400 " " Minneapolis St. Railway Co., Minneapolis, Minn.
42 " " Mt. Auburn Cable Ry. Co., Cincinnati, O.	26 " " Superior Rapid Transit Ry. Co., West Superior, Wis.
42 " " Cincinnati Inclined Plane Ry. Co., Cincinnati, O.	300 " " Milwaukee Street Railway Co., Milwaukee, Wis.
175 " " Rochester Railway Co., Rochester, N. Y.	20 " " Citizens' Street Railway Co., Kalamazoo, Mich.
23 " " Rochester Electric Ry. Co., Rochester, N. Y.	43 " " Springfield Consolidated Ry. Co., Springfield, Ill.
200 " " New Orleans Traction Co., New Orleans, La.	25 " " Aurora St. Ry. Co., Aurora, Ill.
70 " " Brooklyn, Bath & West End R. R. Co., Brooklyn, N. Y.	17 " " West End Street Railway Co., Denver, Colo.
6 " " Pelham Park R. R. Co., Bartow, N. Y.	182 " " Denver City Cable Ry. Co., Denver, Colo.
40 " " Rochester & Irondequoit R. R. Co., Rochester, N. Y.	60 " " Hamilton Street Railway Co., Hamilton, Canada.
25 " " N. F. & Susp. Bridge Ry. Co., Niagara Falls, N. Y.	76 " " Syracuse Street R. R. Co., Syracuse, N. Y.
250 " " New Jersey Traction Co., Newark, N. J.	100 " " Consolidated Street Ry. Co., Syracuse, N. Y.
50 " " Newark & South Orange Ry. Co., Newark, N. J.	16 " " Ossining Electric Ry. Co., Sing Sing, N. Y.
13 " " Elizabeth Street Railway Co., Elizabeth, N. J.	16 " " Beaver Valley Traction Co., Beaver Falls, Pa.
20 " " Consolidated Traction Co., Elizabeth, N. J.	14 " " Flushing & College Point R. R. Co., Flushing, N. Y.
52 " " Trenton Traction Co., Trenton, N. J.	4 " " New Castle Electric St. Ry. Co., New Castle, Pa.
10 " " Washington & Tylerdale St. Ry. Co., Washington, Pa.	

290 CARS OF THE BROOKLYN UNION ELEVATED R. R. CO., Brooklyn, N. Y.

And has Special Contracts with many other Companies.

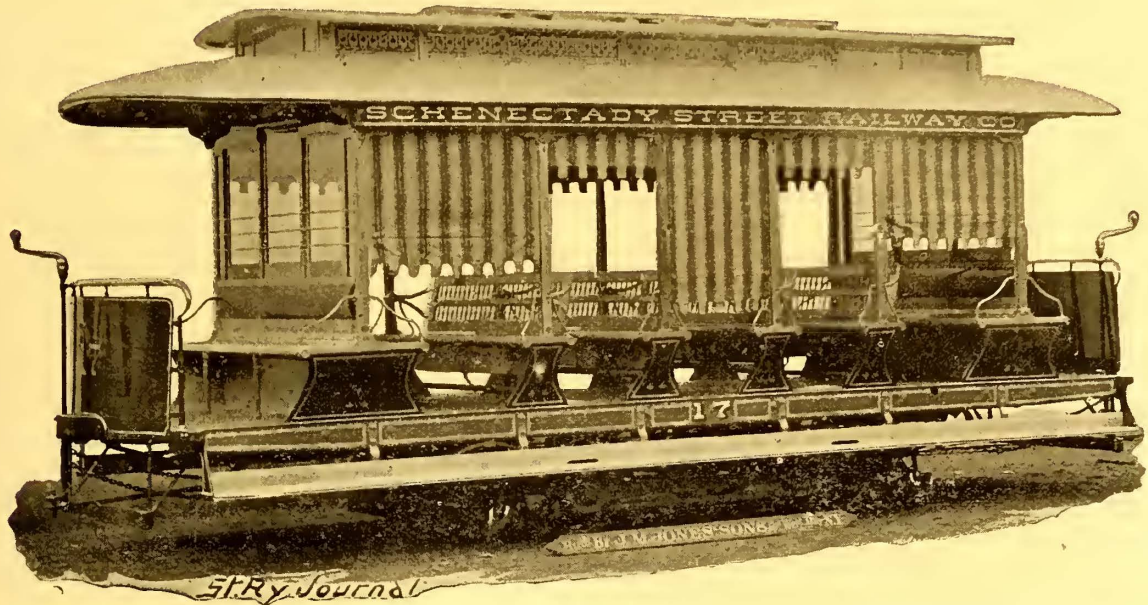
References: Presidents of all the above Roads.

This Concern is prepared to negotiate for long time leases with first-class roads in any part of the United States.

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CARS FOR ELECTRIC AND CABLE SERVICE.

THE BARNEY & SMITH CAR CO.

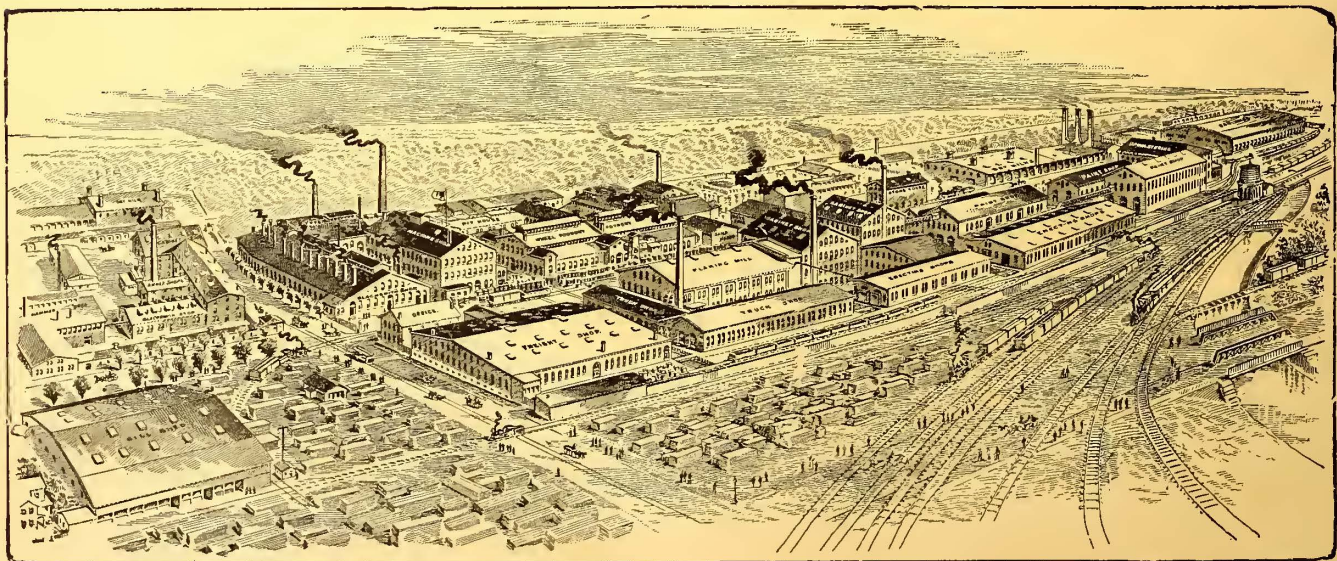
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Special Attention Given to Orders for Interurban Cars.



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Something for Your Consideration.

We control and offer for sale (subject to prior sale) all or part of sixty-two (62) cars situated on tracks at Hegewisch, Ill.

Excellent shipping facilities.

These cars were principally designed for "Summer" use.

They are capable of *easy* adaptation to Winter use. Information and blue-prints cheerfully furnished on request. The cut below shows the motor-car.



DESCRIPTION OF CARS.

Length over all.....	45 ft. 11 1/4 in.	Electric light fixtures. Slat seats.
Distance between king pins.....	32 " 3 1/2 "	Curtains controlled by brakeman; can be let down and raised. They cover entire length and height of car.
Bogie trucks, standard gauge.....	4 " 8 1/2 "	Seven sections with double rows of seats. Each section seats twelve persons—84 in all.
Motor-car wheel base.....	5 " 6 "	Trailers' normal capacity, eighty-four; have carried one hundred passengers.
Trailer wheel base.....	5 "	Motor-trucks are heavily reinforced.
Weight of car (approximately).....	22,000 lbs.	
Height over all (loaded).....	12 ft. 5 1/2 in.	
Griffin Wheel & Foundry Co.'s Wheels.		

A peculiar feature of the car is that the gates admit and discharge passengers *rapidly* and *safely*. They are arranged so that one man standing between two cars is able to open and close the gates on *both* cars without leaving his position.

These cars were operated in trains of four at the Columbian Exposition. Three men sufficed to handle the train, whereas with the ordinary arrangement and a fireman to fire a steam locomotive, the same work would have required *five* men.

At either end of cars is space for the brakeman, whose duty is not only to control the hand-brakes, but to operate the sliding gates and rolling curtains, by means of levers.

There are several novel features, such as safety chains, and sector bar and guide, on which the Hain tubular draw-bar swings, and by its use compression and tension are ingeniously taken up in one set of four spiral springs.

Trucks are of elevated type, made to take 36 inch cast wheels. Steps may be readily added to admit of easy getting on or off. The wheels are cast iron of special pattern.

The bearings are of copper, tin and spelter, lead lined, Hopkins' best mixture. Brake-heads are of malleable iron; shoes are cast iron; brake bearings and levers are made heavy. Everything is especially adapted for *rapid transit* and *short stops*.

The cars are equipped with air-brakes, but these will not be sold with the cars. They must be the subject of separate negotiations.

Price and permit to inspect cars will be furnished on request.

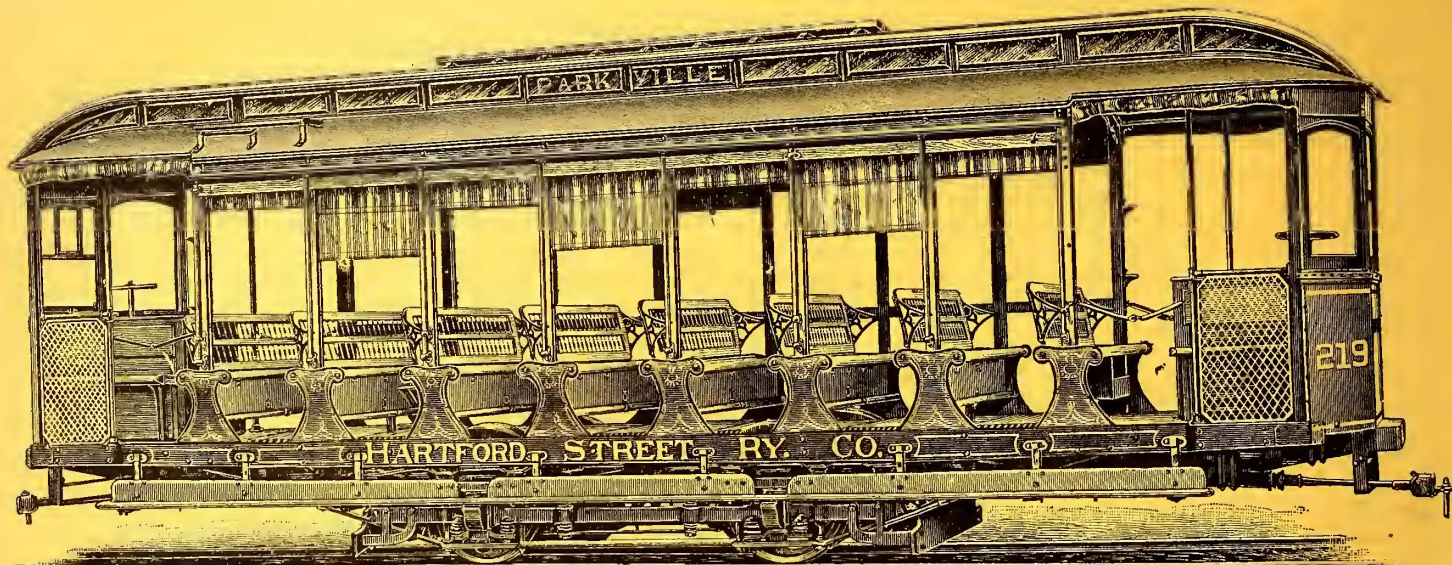
With the increase in attractions furnished by trolley roads, these cars will make big dividend-earners. They are worth your careful consideration.

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Open Electric Motor Car measuring 30 Feet over Ends, Vestibuled, seating 50 Passengers. The Style that has been adopted as a Standard by the Hartford Street Railway Co., Hartford, Conn., and many other New England Roads.



20 ft. Electric Motor Body mounted on Brill No. 22 Eureka Maximum Traction Trucks. A Pattern of Car successfully Tested in Philadelphia, Newark, Atlantic Avenue R. R., of Brooklyn, New Orleans Traction Co., New Orleans, La., and others. The New Orleans Co. have about 200 such Cars in Operation.

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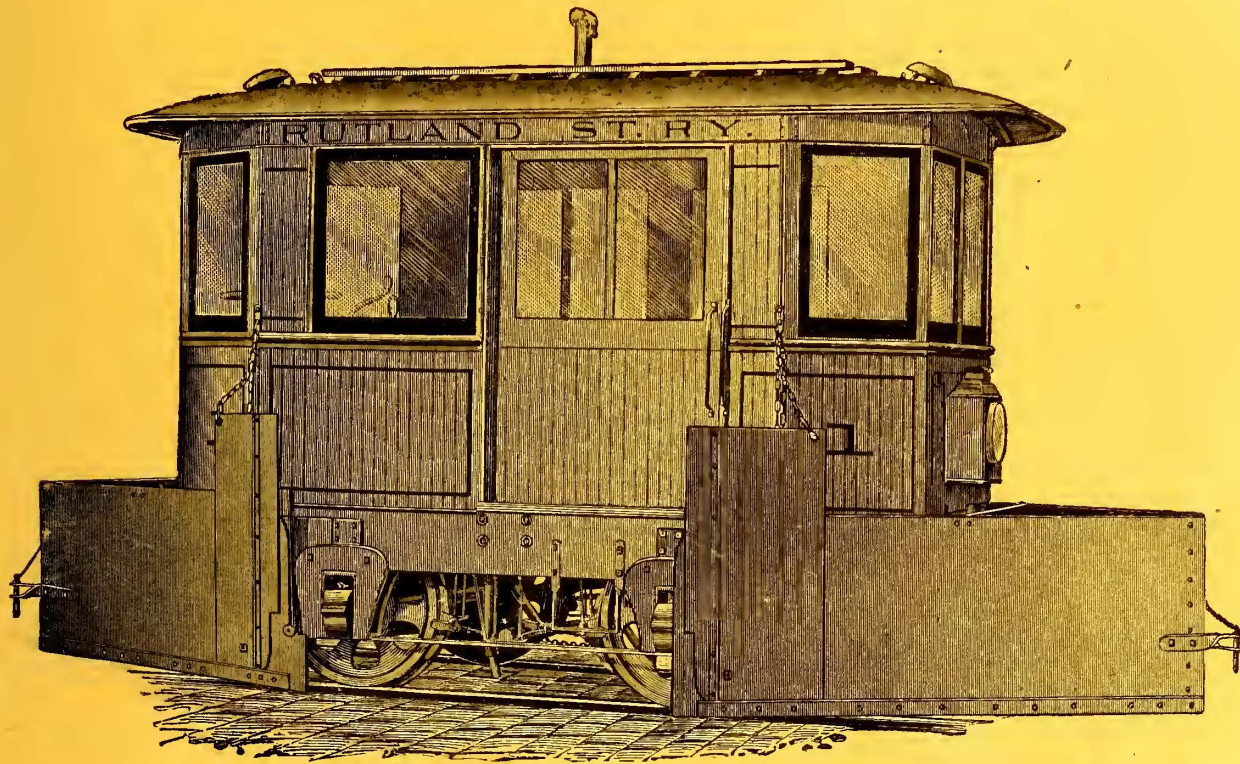
MAIN OFFICE AND WORKS,

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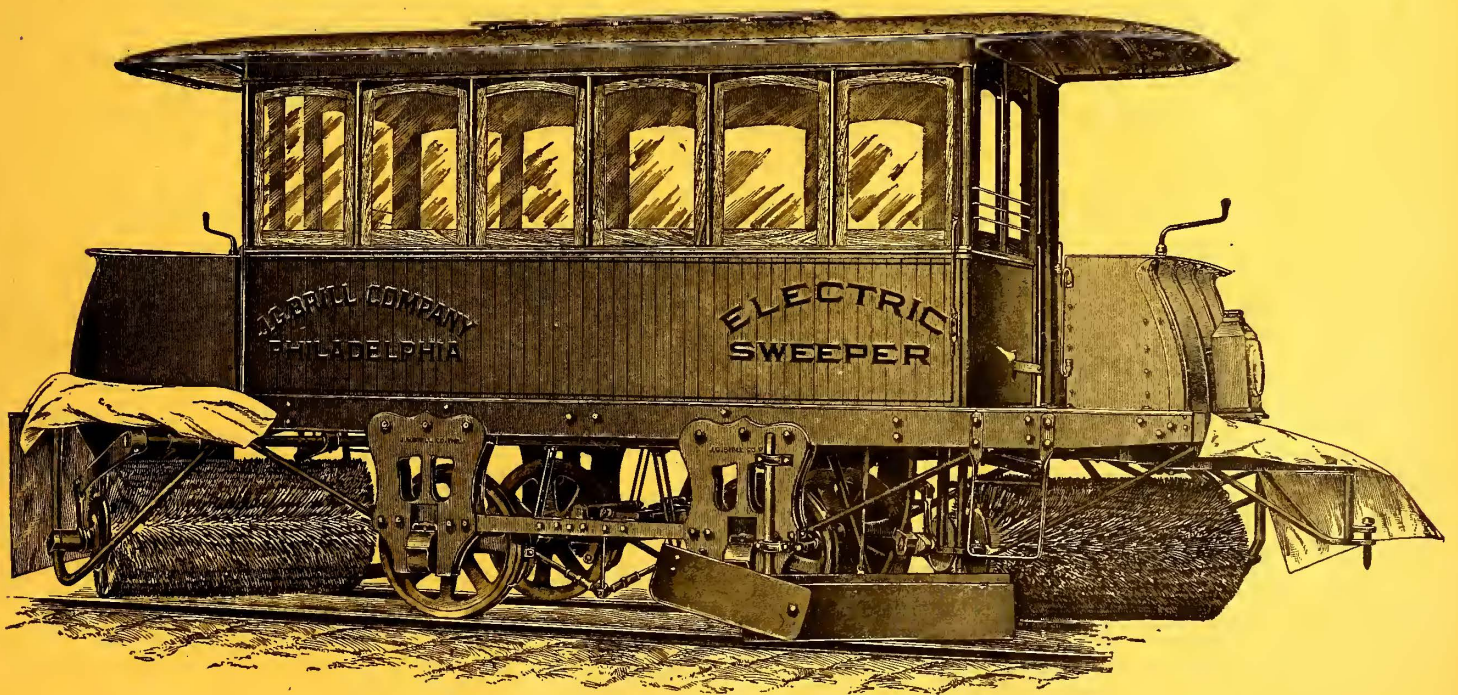
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Single Track Lines. Distributing snow
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Adapted for all kinds of Snow Storms, on either single or double track. Is stronger,
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