



Smithsonian

National Museum of American History Kenneth E. Behring Center

Guide to Charles Richardson Pratt Papers

NMAH.AC.0958

Alison Oswald

2016

Archives Center, National Museum of American History
P.O. Box 37012
Suite 1100, MRC 601
Washington, D.C. 20013-7012
Business Number: Phone: 202-633-3270
Fax Number: Fax: 202-786-2453
archivescenter@si.edu
<https://americanhistory.si.edu/archives>

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Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	Charles Richardson Pratt Papers
Date:	1860-1935 (bulk 1910-1924)
Identifier:	NMAH.AC.0958
Source:	National Museum of American History (U.S.). Division of Mechanical and Civil Engineering (Collector) National Museum of American History (U.S.). Division of History of Technology (Collector) National Museum of American History (U.S.). Division of Work and Industry (Collector)
Creator:	Pratt, Charles Richardson, 1860-1935 (Creator)
Extent:	6 Cubic feet (13 boxes, 8 oversize folders)
Language:	English .
Summary:	The papers document the professional career of mechanical engineer, Charles Richardson Pratt. The papers include correspondence, patents, patent application materials, agreements, photographs, publications, and blueprints for many of Pratt's inventions, especially his work on elevators.

Administrative Information

Acquisition Information

This collection was purchased from Charles R. Pratt's daughter, Gertrude Pratt Vance, in 1973.

Provenance

Transferred to the Archives Center in 2007 by the Division of Work and Industry, formerly called the Division of Mechanical and Civil Engineering.

Processing Information

Processed by Alison Oswald, archivist, 2016.

Preferred Citation

Charles Richardson Pratt Papers, 1860-1935, Archives Center, National Museum of American History.

Restrictions

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Biographical / Historical

Charles Richardson Pratt (1860-1935), was born in Massachusetts to John C. and Mary Anne Richardson. He graduated from the Hopkins School of Boston and the Massachusetts Institute of Technology in 1879. Pratt worked at Whittier Machine Company of Boston (1882-1890) where he designed and built the first electric elevator in 1888. The elevator was installed in the Tremont House, Boston. Pratt also worked as an agent and later as a consulting engineer for the Otis Elevator Company, the inventors of the hydraulic elevator.

Pratt was best known for his development of the first electrically powered elevator. In 1892, inventor Frank Sprague (1857-1934) founded the Sprague Electric Elevator Company, and with Charles R. Pratt developed the Sprague-Pratt Electric Elevator. They demonstrated that electrically powered elevators were capable of competing with hydraulic elevators. Pratt held several engineering positions and worked for the Marine Engine Company of Newark, New Jersey (1902-1905) developing elevator systems; consulting engineer to the Universal Speed Control Company of New York City (1906-1919); consultant to the American Engineering Company of Philadelphia (1912); mechanical superintendent at the Crocker Wheel Company of Ampere, New Jersey (1919); engineer for the E. Horton and Sons Company of Connecticut (1920-1923); the General Tractors Corporation (1924-1927); and was associated with the Watson Elevator Company of New York City (1928-1930). Pratt patented many of his ideas, earning over thirty-five patents related mostly to elevators,

Pratt was a member of the Masons, the Sons of the American Revolution, the American Society of Mechanical Engineers, the MIT Club of New Jersey, and the Motor Club of London. He married Mary Byron Ladd and they had two children, Gertrude Ladd Pratt and Donald Richardson Pratt.

Scope and Contents

These papers contain personal materials of Charles R. Pratt; letterpress copybooks; engineering notebooks; diaries; material relating to the development of the heavy-duty, high-rise electric elevator; material concerning elevator cable equalizers and safety devices, Morton-Jacobsen and other lathe chucks, lathe drives and the Pratt Driver, the hydraulic transmission of power in trucks, and ship steering gear; and studies reports, drawings, photographs, catalogs, and trade literature concerning mechanical engineering.

Arrangement

The collection is arranged into eight series.

Series 1: Personal Materials, 1875-1935

Series 2: Diaries, 1894, 1928-1931

Series 3: Correspondence, 1872-1920

Series 4: Notebooks, 1880, 1889, 1900

Series 5: Inventions, 1860-1927

Series 6: Photographs, 1890-1902

Series 7: Publications, 1895-1929

Series 8: Drawings, 1878-1929

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Elevators
- Inventors
- Machine-tools
- Mechanical engineering and engineers
- Patents -- 1890-1900
- Power transmission

Types of Materials:

- Diaries
- Drawings
- Letterpress books
- Notebooks
- Patents -- 1870-1880
- Photographs -- 19th century
- Trade catalogs

Names:

- National Museum of American History (U.S.). Division of History of Technology
- National Museum of American History (U.S.). Division of Mechanical and Civil Engineering
- National Museum of American History (U.S.). Division of Work and Industry
- Sprague, Frank J.

Places:

- Montclair (N.J.)

Container Listing

Series 1: Personal Materials, 1932 - 1932, 1934 - 1935, 1875 - 1875, 1907 - 1907, 1915 - 1915

Scope and Contents: This series contains materials relating to Pratt's personal life such as membership cards, materials about his interest in golf and an 1875 publication titled *The Budget* which Pratt edited at the age of 15. A photograph of the young Pratt is included.

Box 13, Folder 1 University of State of New York certificate of license for professional engineering, 1924-09 - 1924-09

Box 1, Folder 1 The Budget (includes photograph of Charles R. Pratt), 1875-06 - 1875-06

Box 1, Folder 2 Ancient Arabic Order, Nobles of the Mystic Shrine (membership), 1907 - 1907

Box 1, Folder 3 American Society of Mechanical Engineers (membership card), undated

Box 1, Folder 4 The Motor Club (London), undated

Box 1, Folder 5 Golf club carrier and notes about golf clubs, 1915 - 1915, 1932, 1934 - 1934

Box 1, Folder 6 Newspaper clippings, 1935 - 1935

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Series 2: Diaries, 1931 - 1931, 1894 - 1894, 1928 - 1929

Scope and Contents: This series contains pocket diaries maintained by Pratt. The diaries contain information about his daily activities and appointments. The series is arranged chronologically.

Box 1, Folder 7 Diaries, 1894

Box 1, Folder 8 Diaries, 1928

Box 1, Folder 9 Diaries, 1929

Box 1, Folder 10 Diaries, 1931

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Series 3: Correspondence, 1872 - 1920

Scope and Contents: This series consists of both incoming and outgoing correspondence written by Pratt. The correspondence is almost exclusively work-related and is both handwritten and typescript. Additional correspondence about Pratt's work can be found in Series 5: Inventions, 1860-1927. There is one folder of personal correspondence with letter to his wife, Mary and daughter, Gertrude.

Box 1, Folder 11	Letter book, 1872 February-1872 June
Box 1, Folder 12	Letter book, 1888 May-1889 January
Box 13, Folder 1A	Letter book (loose pages, 292-293, 296-299), 1889 - 1889
Box 2, Folder 1	Letter book, 1892-06-30 - 1897-06, 1900 - 1900
Box 2, Folder 2	Letter book, 1895-12 - 1897-03
Box 2, Folder 3	Letter book, 1898-10-18 - 1900-12-22
Box 2, Folder 4	Personal, 1896 - 1896, 1898 - 1898 Notes: Letters from Charles Pratt to his wife, Mary, known as "Pink" and his daughter, Gertrude, known as "Goo."
Box 3, Folder 4-5	American Society of Mechanical Engineers, 1899-01-18 - 1899-11 Notes: Relates to elevators and society transactions.
Box 3, Folder 6	Alphabetical (B), 1899 - 1900
Box 3, Folder 7	Alphabetical (C-F), 1899 - 1899
Box 3, Folder 8	Alphabetical (G), 1899 - 1899
Box 3, Folder 9	Alphabetical (H-J), 1899
Box 3, Folder 10	Alphabetical (K-O), 1899
Box 3, Folder 11	Alphabetical (Q-S), 1899
Box 4, Folder 1	Alphabetical (U-W), 1899
Box 4, Folder 2	American Engineering Company (marine steering gear), 1919 - 1921
Box 4, Folder 3	American Engineering Company (ship steering gear), 1914 - 1916
Box 4, Folder 4	Everett, Russell M. (patent attorney), 1911 - 1914

Notes: Primarily correspondence about obtaining foreign patents for many of Pratt's inventions. Also includes correspondence from Marks and Clerk Consulting Engineers and Chartered Patent Agents in London.

Box 4, Folder 5	E. Horton and Son Company (relates to chucks), 1920
Box 4, Folder 6	City of Minneapolis (court house and city hall), 1894
Box 4, Folder 7	Ordnance Department, 1917
Box 4, Folder 8	Park Row Building, 1900
Box 4, Folder 9	Pumps and hydraulic transmissions, 1927
Box 4, Folder 10	Rotary piston internal combustion engine (correspondence with H.G. Sharp), 1911 - 1912
Box 4, Folder 11	Sprague Electric Elevator Company, 1889
Box 4, Folder 12	Sprague Electric Elevator Company (A-B), 1894 - 1895
Box 4, Folder 13	Sprague Electric Elevator Company (D), 1894
Box 4, Folder 14	Sprague Electric Elevator Company (E-G), 1891 - 1895
Box 4, Folder 15	Sprague Electric Elevator Company (H-N), 1894 - 1895
Box 4, Folder 16	Sprague Electric Elevator Company (O-R), 1890 - 1894
Box 4, Folder 17	Sprague Electric Elevator Company (S), 1894 - 1895
Box 4, Folder 18	Sprague Electric Elevator Company (T-W), 1894 - 1895
Box 4, Folder 19	Sprague Electric Elevator Company, 1897 - 1899
Box 5, Folder 1	Sprague Electric Elevator Company (agreements), 1894 - 1894, 1889
Box 5, Folder 2	Sprague Electric Elevator Company (Daniel Smith, store room clerk), 1896
Box 5, Folder 3	Crocker-Wheeler Company (shop methods and systems), 1918
Box 5, Folder 4	Crocker-Wheeler Company (traction wheel), 1918 - 1919
Box 5, Folder 5	Union Manufacturing Company (chucks), 1919 - 1920

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Series 4: Notebooks, 1889 - 1889, 1880 - 1880, 1900 - 1900

Scope and Contents: This series consists of bound notebooks, arranged chronologically, belonging to Charles R. Pratt. The notebooks contain sketches, calculations, data, and other notes primarily related to elevator development and other inventive pursuits.

Box 2, Folder 5 Chas. R. Pratt (Whittier Machine Company, Draughting Room), 1880-09-27 - 1880-09-27

Box 2, Folder 6 [Charles R. Pratt \(Boston and Sprague Electric Elevator Company, New York City and Bloomfield, New Jersey\), 1889 - 1889](#)

Box 3, Folder 1 Charles R. Pratt, 1900-08-21 - 1900-08-21

Box 3, Folder 2 Charles R. Pratt (Upper Montclair, New Jersey), 1907 - 1907

Box 3, Folder 3 C.R. Pratt (Sprague Elevator Company, New York City), undated
Notes: Notebook contains information about the Bowling Green Building and car travel.

Box 3, Folder 3 C.R. Pratt (Notebook D), undated
Notes: Notebook consists of drawing alterations.

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Series 5: Inventions, 1860 - 1927

Scope and Contents: This series consists of materials related to Pratt's inventions. The materials include correspondence, patents, patent applications, sketches, calculations, blueprints, and some photographs. The materials are arranged chronologically by patent issue date. Researchers should consult Series 3: Correspondence for additional information.

There is substantial documentation about Pratt's cable tension equalizing device which he co-patented with John Heslip on November 30, 1923 (US 1,474,911) and the subsequent patent interference case. The patent, filed on April 6, 1921, was intended, "to provide an improved apparatus whereby the tension on several load carrying cables may be maintained substantially uniform while operating." The invention would be most valuable to elevators whose load needs to be properly distributed.

Edward E. Wright of Detroit patented an equalizer (US 1,465,705) on August 21, 1923, three months before Pratt. Wright suggested to Pratt that he abandon his pursuit of filing a patent and that he was the rightful inventor. According to Pratt's records, namely his sketches, he and Heslip conceived of the idea in Kansas City first, implementing their invention in the Commerce Trust Building. Pratt's November 30, 1920 sketch, made on the back of a menu for the Hotel Baltimore in Kansas City, details his elevator rope equalizer. Wright began an patent interference with the United States Patent and Trademark Office, *Edward E. Wright v. Charles R. Pratt* (Interference No. 48, 278) on November 16, 1922. An interference proceeding, also known as a priority contest, is a proceeding before patent judges to determine the priority issues of multiple patent applications. On March 16, 1923, Pratt and Wright resolved their patent interference with the following agreement: Wright paid Pratt \$500 in cash; Pratt would no longer pursue the patent interference; and Wright would grant Pratt an exclusive license to manufacture, use, and sell all forms of the equalizer except the form shown in Wright's patent

Box 13, Folder 7	Elevator equalizer (model template), 1922-04-28 - 1922-04-28
Box 5, Folder 6	US 417, 086 and US 417, 087 (clutch appliance for elevators), 1889 - 1889, 1891 - 1891 Notes: Agreements with Frank Sprague, John H. Clark, Edward H. Johnson, and Thompson Houston Motor Company
Box 5, Folder 7	US 444,102 (brake and starter for machinery), 1891 - 1891
Box 5, Folder 8	US 448,788 (elevator), 1891
Box 5, Folder 9	US 450,252 (elevator), 1891
Box 5, Folder 10	US 459,090 (controlling mechanism), 1891
Box 5, Folder 11	US 465,218 (adjustable rheostat, with Frank Sprague), 1891
Box 5, Folder 12	US 472,909 (electric elevator), 1892
Box 5, Folder 13	US 476,304 (ball bearing nut), 1892
Box 5, Folder 14	US 509,397 (electric elevator), 1893

Box 5, Folder 15	US 548,894 (elevator safety device), 1897
Box 5, Folder 16	US 573,531 (elevator), 1896
Box 5, Folder 17	US 580,893 (elevator), 1897
Box 5, Folder 18	US 676,152 (elevator safety device), 1904 - 1905 Notes: Includes assignment to Marine Engine and Machine Company.
Box 5, Folder 19	US 676,769 (thrust bearing), 1901
Box 5, Folder 20	US 763,204 (moving stairway), 1904
Box 5, Folder 21	US 846,613 (elevator safety device), 1907
Box 5, Folder 22	US 853,733 (elevator safety device), 1907
Box 5, Folder 23	US 865,205 (elevator), 1907
Box 6, Folder 1	US 958,679 (elevator patent gear), 1906 - 1916
Box 6, Folder 2	US 958,679 (elevator safety device), 1910
Box 6, Folder 3	US 1,019,521 (pump), 1912
Box 6, Folder 4	US 1,048,999 (controlling mechanism for motors), 1912
Box 6, Folder 5	US 1,049,000 (speed control), 1912, 1923 - 1923
Box 6, Folder 6	US 1,211,961 (means for controlling synchronized fluid gears), 1917
Box 6, Folder 7	US 1,294,162 (hydraulic ship steering gear), 1919
Box 6, Folder 8	US 1,137,283 (rotary power piston transmission), 1915
Box 6, Folder 9	US 1,362,040 (fluid power transmission pump or motor), 1920
Box 6, Folder 10	US 1,446,062; US 1,446,065; US 1,446,066 (lathe drive chucks), 1922
Box 6, Folder 11	Chucks (correspondence), 1919
Box 6, Folder 12	Chucks (general), 1919
Box 6, Folder 13	Chucks (patent-related), 1919 - 1920
Box 6, Folder 14-15	Chucks (E. Horton and Son Company), 1921 - 1922

Box 7, Folder 1	Chucks (patent-related), 1919 - 1922
Box 7, Folder 2	Chucks (correspondence with E. Horton and Son Company and patent assignment), 1920 - 1921
Box 7, Folder 3	Chucks (E. Horton and Son Company), 1920 - 1923
Box 7, Folder 4	Chucks (Bullard Machine Tool Company), 1919
Box 7, Folder 5	Chucks (cam toggle no spring) correspondence, 1921
Box 7, Folder 6	Pratt Driver (correspondence), 1920 - 1921
Box 7, Folder 7	Chucks (Horton and Jacobson) patent agreements, 1919 - 1922
Box 8, Folder 1	US 1,474,911 (elevator equalizer) General Tractor Corporation and Otis Elevator Company, 1921 - 1924
Box 8, Folder 2	US 1,474,911 (elevator equalizer) Guernev Elevator Company, 1922 - 1923
Box 8, Folder 3	US 1,474,911 (elevator equalizer) patent application and Wright interference, 1920 - 1922
Box 8, Folder 4	US 1,474,911 (elevator equalizer) sketches, 1922
Box 8, Folder 5	US 1,474,911 (elevator equalizer) correspondence, 1921 - 1922
Box 8, Folder 6	US 1,474,911 (elevator equalizer) correspondence and sketches, 1921 - 1922
Box 8, Folder 7	US 1,474,911 (elevator equalizer) agreement with Wright, 1921 - 1923
Box 8, Folder 8	US 1,474,911 (elevator equalizer) relates to sheave, 1923 - 1924
Box 8, Folder 9	US 1,474,911 (elevator equalizer) elevator in the Commerce Building in Kansas City, 1921 - 1924
Box 8, Folder 10	US 1,159,082 (electric control for delivery of power), 1915
Box 8, Folder 11	US 1,158,554 (rotary piston engine), 1915
Box 8, Folder 12	US 1,163,849 (pump or motor), 1915
Box 8, Folder 13	US 1,165,121 (control apparatus), 1915
Box 9, Folder 1	Elevator oil buffer, 1921
Box 9, Folder 2	Elevators and other hoisting apparatus (description of invention), undated

Box 9, Folder 3	Gears, motors and fluid motors, 1921
Box 9, Folder 4	Hydraulic pump transmission calculations, 1911
Box 9, Folder 5	Hydraulic ship steering gear, 1917
Box 9, Folder 6	Micro-drive, 1921
Box 9, Folder 7	Parallel hoisting motor, 1927
Box 9, Folder 8	Variable stroke pump elevator (Hudson Terminal Building), 1914
Box 9, Folder 9	Rotary piston pump and variable stroke pump, 1913
Box 9, Folder 10	Ship steering (patent application and sketches), 1917
Box 9, Folder 11	Watson Elevator Company, 1924
Box 9, Folder 12	Universal Speed Control Company (lists of patents), 1915
Box 9, Folder 13	Agreements for hydraulic elevator assigned to Otis Elevator Company, 1914 August 25
Box 9, Folder 14	Agreements for hydraulic ship steering gear and hydraulic ram engines (Pratt and Harry C. Sanford), 1917 January 4
Box 9, Folder 15	Patent folder of Howson and Howson, undated
Box 9, Folder 16	Patents by others (relate to hydraulic power transmission and control), 1860 - 1899
Box 9, Folder 17	Patents by others (relate to hydraulic power transmission and control), 1900 - 1911
Box 9, Folder 18	Patents by others (motor and control related), 1890 - 1906
Box 10, Folder 1	Miscellaneous power transmissions, fluid gear motor drawings for Universal Speed Control Company, undated
Box 10, Folder 2	Foreign patents issued to Charles R. Pratt, 1911, 1913 - 1913
Box 10, Folder 3	Patents by others (elevator-related), 1888, 1890 - 1890

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Series 6: Photographs, 1890 - 1902

Scope and Contents: This series consists of black and white photographs and four lantern slides. The majority of the images are of Pratt (portraits and with others) as well as images of elevator equipment.

Box 12, Folder 1	J.C. Pratt house in Jamaica Plains, New York, undated
Box 12, Folder 2	Charle R. Pratt house in Montclair, New Jersey, 1902 May
Box 12, Folder 3	Charles R. Pratt, 1899 - 1902
Box 12, Folder 4	Sprague-Pratt Electric Elevator Company (cable images), undated
Box 13, Folder 5; Box 12, Folder 5	Sprague-Pratt Electric Elevator (equipment), undated
Box 12, Folder 6	Hydraulic transmission for motor vehicles, 1910
Box 13, Folder 2	Campbell, Whittier and Company Works, undated
Box 13, Folder 3	American Society of Mechanical Engineers (39th meeting at the War State and Navy Building, Washington, DC), 1899-05-10 - 1899-05-10
Box 13, Folder 4	Sprague-Pratt Electric Elevator, type D (at the Edison Electric Illuminating Company), undated
Box 13, Folder 6	Plates of scale drawings by Pratt, undated
Box 11, Folder 6	Pratt elevator safety car drawing built by Marine Engine and Machine Company, 1890 - 1890 1 Lantern slide
Box 11, Folder 6	#32, Marine Engine Company building, aerial view, undated 1 Lantern slide
Box 11, Folder 6	#33, [Interior shop floor view of Marine Engine and Machine Company?], 1900 - 1900 1 Lantern slide
Box 11, Folder 6	Gear with oil, made by Marine Engine and Machine Company, undated 1 Lantern slide

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Series 7: Publications, 1895 - 1929

Scope and Contents: This series contains publications and other printed materials primarily related to elevators and mechanical engineering. The series is arranged alphabetically.

Box 10, Folder 4	The Automobile, Volume XXXVI, No. 19, 1917 May 10
Box 10, Folder 5	Automobile-related writings, 1915 - 1916
Box 10, Folder 6	Cutler Hammer Clutch Company, bulletin 15020, undated
Box 10, Folder 7	Curtis Pneumatic Machinery Company, catalogue no. 63, undated
Box 13, Folder 8	Eagle-Macomber Motor Car Company, 1916
Box 10, Folder 10	Pratt, Charles R. Elevators (for the American Society of Mechanical Engineers), 1899 - 1899
Box 10, Folder 11	Ellithorpe Safety Elevator Company, 1898
Box 13, Folder 8	Engineering News, 1899 April 27
Box 10, Folder 12	Hydraulic control and pumps (includes patents), 1912 - 1914
Box 10, Folder 13	Hydraulic transmissions (general), 1911 - 1925
Box 13, Folder 8	Kelsey Motor Company, undated
Box 13, Folder 8	King's New York Views (by Sprague Electric Elevator Company), 1895
Box 10, Folder 8	Lyon, Dorsey A. Department of the Interior, Bureau of Mines, Electric Furnaces for Making Iron and Steel, 1916
Box 10, Folder 9	Lyon, Dorsey A. Department of the Interior, Bureau of Mines, The Electric Furnace in Metallurgical Work, 1916
Box 10, Folder 10	Pratt, Charles R. Elevators (for the American Society of Mechanical Engineers), 1899
Box 11, Folder 1	McCrosky Tool Corporation, catalogue No. 8, [1923?]
Box 11, Folder 2	Stevenson Engineering Company (silent balanced pumps), undated
Box 11, Folder 3	Timken Engineering Journal, 1929
Box 11, Folder 4	United States Patent Office, price list, [1897?]

Box 11, Folder 5

Miscellaneous elevator trade literature, undated

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Series 8: Drawings, 1878 - 1929

Scope and Contents: The drawings consist primarily of blueprints for many of Pratt's inventions. Also included are some pencil and ink drawings.

Map-folder 1	Traction wheel, 1917 - 1918 5 Blueprints
Map-folder 1	Diagram of Pratt control #3, electric pilot motor, 1916 13 Blueprints
Map-folder 1	Electro-magnet valve for hydraulic steering gear, 1916 2 Blueprints
Map-folder 1	P.C. and 1 and 3 rheostat plungers, 1916 1 Blueprint
Map-folder 1	American Engineering Company, steering gear for battleships, 1915 - 1916 18 Blueprints
Map-folder 1	Pratt control on Waterbury pump, undated 1 Blueprint
Map-folder 1	Pratt pumps, 1914 1 Blueprint
Map-folder 1	American Engineering Company [battleship screw gear], 1914 2 Blueprints
Map-folder 1	Universal Speed Control Company, hydraulic transmission (for two motor units), 1922 - 1923 3 Blueprints
Map-folder 2	Elevator equalizer, 1921 - 1923 21 Blueprints
Map-folder 2	Bullard Machine Tool Company (chucks) 12 Blueprints
Map-folder 3	Pratt driver, lathe drivers (Type-B and Type A-3), 1919 - 1921 31 Blueprints
Map-folder 4	Southwark Foundry and Machine Company, American Engineering Company, and Universal Speed Control Company, hydraulic gear motors and fluid motors for battleships, 1910 - 1916 22 Blueprints
Map-folder 5	Pratt driver for General Tractors Corporation, 1924

	7 Blueprints
Map-folder 5	Hydraulic control and pumps, 1910 - 1911 3 Blueprints
Map-folder 5	American Engineering Company, electro-hydraulic steering [motor control], 1914 2 Blueprints
Map-folder 6	Henrici-Lowry Engineering for the Commercial Building, miscellaneous elevator drawings, 1920 - 1921 14 Blueprints
Map-folder 7	Pratt control schematic diagram (for US 1,048,999 and 1,049,000), 1923 - 1923, 1914 6 Blueprints
Map-folder 7	Crocker-Wheeler Company, shop methods and systems, 1918 1 Blueprint
Map-folder 7	American Engineering Company, Hele-Shaw Martineu electric hydraulic steering for the United States Navy scout cruisers, 1916 1 Blueprint
Map-folder 7	Pratt equalizing sheave, 1929 2 Blueprints
Map-folder 7	Pratt elevator equalizer, 1923 4 Blueprints
Map-folder 7	Otic Electric Company, electric elevator machine, 1895 - 1911 13 Blueprints
Map-folder 8	Watson Elevator Company, nut and screw scale, 1929 1 Blueprint
Map-folder 8	Universal Speed Control Company, power transmission, rotary piston power, 1911 2 Blueprints
Map-folder 8	Variable Speed Gear, Ltd., hydraulic transmissions, 1918 2 Blueprints
Map-folder 8	Scale drawings, 1878 4 Drawings (visual works)
Map-folder 8	Chucks, 1917 - 1920 6 Blueprints
Map-folder 8	C. Whittier and A. Crosby, vacuum dredge, 1878, 1880 - 1880

	1 Blueprint
Map-folder 8	Braces and tubes for horizontal boiler, 1881 1 Blueprint
Map-folder 8	The Pendulum, 1886 1 Blueprint
Map-folder 8	48" boiler bracing, 1881 1 Drawings (visual works)
Map-folder 8	60" boiler front, undated 1 Blueprint
Map-folder 8	Whittier Machine Company, boiler setting, 1881 1 Drawings (visual works)
Map-folder 8	Sectional elevations of yacht engine cylinder by George Eli Whitney, undated 1 Blueprint
Map-folder 8	Candy mixer for Chase and Company, 1885 - 1885 1 Blueprint

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