Smithsonian
*National Museum of American History Kenneth E. Behring Center*

# Guide to the Cooper-Bessemer Corporation Records

NMAH.AC.0961

Alison Oswald

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Archives Center, National Museum of American History
P.O. Box 37012
Suite 1100, MRC 601
Washington, D.C. 20013-7012
archivescenter@si.edu
https://americanhistory.si.edu/archives

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## Collection Overview

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| **Repository:** | Archives Center, National Museum of American History |
| **Title:** | Cooper-Bessemer Corporation Records |
| **Date:** | 1870-1961 |
| **Identifier:** | NMAH.AC.0961 |
| **Creator:** | Cooper-Bessemer Corporation (Mt. Vernon, Ohio) |
| **Source:** | National Museum of American History (U.S.). Division of Mechanical and Civil Engineering |
| **Extent:** | 27 Cubic feet (68 boxes, 1 map-folder) |
| **Language:** | English , Spanish; Castilian . |
| **Summary:** | These records document the activities of the Cooper-Bessemer Corporation of Mt. Vernon, Ohio, and Grove City, Pennsylvania, manufacturers of steam, gas, and oil engines, compressors, and furnaces. |

## Administrative Information

### Acquisition Information

The collection was donated by the Cooper-Bessemer Corporation, through Robert S. Warren, Manager of Advertising and Public Relations, in 1965 and 1969.

### Ownership and Custodial History

Collection transferred to the Archives Center from Division of Work and Industry, 2006.

### Related Materials

**Materials at the National Museum of American History**

Smithsonian Institution Libraries, Trade Literature Collection

Includes Cooper-Bessemer Corporation, Chapman Engineering Company, and Hope Engineering and Supply Company.

### Processing Information

Collection processed by Alison Oswald, archivist, 2022.

### Preferred Citation

Archives Center, Cooper-Bessemer Corporation Records, National Museum of American History.

### Restrictions

Collection is open for research.

### Conditions Governing Use

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## Biographical / Historical

C. & G. Cooper Company was founded by Charles (1811-1891) and Elias Cooper (1814-1848) in 1833 in Mt. Vernon, Ohio. Situated in Central Ohio, abundant supplies of coal, iron and natural gas were available to the Cooper brothers as well as proximity to the Baltimore and Ohio Railroad lines. Previously, the brothers opened a coal mine in 1832 and then a foundry for casting metals. Their principal products were plows, carding machines, and special power machinery. In 1848, Elias Cooper died and Charles Cooper sold an interest in the Company to T.L. Clark and the firm changed its name from to C. & E. Cooper to Cooper & Clark. In 1852, John Cooper (1824-1916), the younger brother of Charles and Elias, joined the company and became known as Coopers & Clark. T.L. Clark retired in 1853 and the company became C. & J. Cooper.

In 1852, the company built its first blowing engine and with the growth of the railroad system and a demand for railroad equipment, the company responded with manufacturing steam locomotives. In 1865, F.L. Fairchild (d. 1912) joined the company as a partner and the firm became known as C.& J. Cooper & Company. J.C. Debes, a mechanical engineer formerly of the George H. Corliss Works, began working for the company in 1865 designing Corliss engines that came to market in 1869. Corliss engines would become a principal product of the company by 1886. Colonel George Rogers (son-in-law of Elias Cooper) joined the company when John Cooper retired and the name once gain changed to C. & G. Cooper & Company. By 1881, Desault B. Kirk (son-in-law of Charles Cooper) and son, C.F. Cooper (d. 1894) along with E.H. Fairchild and B.F. Williams became active partners in the company. In 1929, Cooper merged with Bessemer Gas Engine Co. of Grove City, Pennsylvania, to form Cooper-Bessemer Corporation. Cooper Machinery Services is the current equipment manufacturer for Cooper-Bessemer engines.

During World War One and World War Two, the company made munitions—steel shells, special purpose lathes, surface grinders and multiple-head cutting off machines—to aid the Allies. Its work contributed to faster and more efficient production for the war effort and earned it the Maritime "M" and Army/Navy "E" Awards. Over the years, the company's products included: simple and compound Corliss engines, gas and diesel engines, rolling mill engines, marine engines, compressors, and power units for ice and refrigeration, cotton-ginning and oil-milling.

**Sources**

Cooper Machinery Services (last accessed on April 12, 2022 https://www.cooperservices.com/our-company/heritage/cooper-origins/the-history-of-cooper-bessemer/)

C. & G. Cooper Company, Seventy-Five Years of Engine Building, Mount Vernon, Ohio, 1900.

100 Years of Power, Cooper-Bessemer, 1833-1933, 1933.

## Scope and Contents

These records document the activities of the Cooper-Bessemer Corporation of Mt. Vernon, Ohio, manufacturers of steam, gas, and oil engines; compressors; and furnaces through correspondence, financial materials, trade literature and photographs.

## Arrangement

The collection is arranged into eleven series.

Series 1: Background Materials, 1895-1944

Series 2: Correspondence, 1866-1961

Series 3: Financial Materials, 1888-1929

Series 4: Newsletters, 1917-1942

Series 5: Product and Sales Materials, 1870-1961

Series 6: Advertising Materials, 1921-1945

Series 7: Printed Materials, 1902-1953

Series 8: Photographs, 1881-1930s

Series 9: Air Brushed Photographs/Renderings, 1909-1930s, undated

Series 10: Glass Plate Negatives, 1906-1913, undated

Series 11: Drawings, 1906-1944

## Names and Subject Terms

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

Subjects:

Air-compressors
Diesel motor
Engines
Furnaces
Marine engines
Refrigeration and refrigerating machinery
Steam-engines

Types of Materials:

Advertising
Airbrushing
Cashbooks
Catalogs -- 20th century
Correspondence -- 1900-1950
Drawings -- 19th century
Drawings -- 20th century
Financial records
Letterpress copybooks
Newsletters
Photographs -- 1850-1900
Photographs -- 1900-1950
Price lists
Trade literature -- 20th century

Names:

National Museum of American History (U.S.). Division of Mechanical and Civil Engineering

## Container Listing

### Background Materials, 1895-1944

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| Box 1, Folder 1 | Certificate of Incorporation for C. & G. Cooper Company , 1895 |
| Box 1, Folder 2 | By-Laws, undated |
| Box 1, Folder 3 | Bessemer Gas Engine Company, letterhead, undated |
| Box 1, Folder 4 | C. & G. Cooper Company, blank agreement, 1880s |
| Box 1, Folder 5 | 100 Years of Power, 1833-1933, 1933 |
| Box 1, Folder 6 | C. & G. Cooper Company, Seventy-Five Years of Engine Building, 1909 |
| Box 1, Folder 7 | Mt. Vernon, Ohio history (republican Industrial Edition), undated |
| Box 1, Folder 8 | Our Bit Being a Brief Story of Our Part in the Fight for World Freedom, 1918 |
| Box 1, Folder 9 | Cooper, Charles G. , 1922 |
| Box 1, Folder 10 | Corbin, John P. , 1925 |
| Box 1, Folder 11 | Memorial to Frank Louis Fairchild, Director of C. & G. Cooper Company , 1912 |
| Box 1, Folder 12 | Kirk, Desault B. (son-in-law of Charles Cooper) biographical information , undated |
| Box 1, Folder 13 | Leonard, Archie W. , 1926 |
| Box 1, Folder 14 | Thomas, Fred H. , 1932 |
| Box 1, Folder 15 | Wallace, Harry A. , 1924 |
| Box 1, Folder 16 | Chapman-Stein Company (management list) , undated |
| Box 1, Folder 17 | Announcements (corporate) , 1929, 1931, undated |
| Box 1, Folder 18 | Invitations, 1944, undated |
| Box 1, Folder 19 | Army-Navy E Award , 1944-04-08 |
| Box 1, Folder 20 | Cooper-Bessemer Employee Profit Sharing Plan, 1944 |

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| Box 1, Folder 21 | New Employee Handbook, undated |
| Box 1, Folder 22 | C. & G. Cooper Company luncheon menu, 1928 |
| Box 1, Folder 23 | Vistors Guide, undated |
| Box 54, Folder 10 | United States Maritime Commission, Maritime "M" Pennant and Victory Eagle Flag Award, [1944?] |
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## Correspondence, 1866-1961

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| Box 2, Folder 1 | Correspondence, 1881, 1885, 1890 |
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| Box 2, Folder 5 | Correspondence, miscellaneous, 1924-1961 |
| Box 2, Folder 6 | Diesel engine testimonials, 1926-1937 |
| Box 2, Folder 7 | Type 16 refrigeration unit testimonials, 1935 |
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| Box 54, Folder 1 | Branch Journal for Tulsa, Oklahoma, 1928-1929 |
| Box 54, Folder 2 | General Ledger Trial Balance, 1920-12-1921-11 |
| Box 3, Folder 1 | C. & G. Cooper Company, cash book and ledger, circa 1872-1877 |
| Box 3, Folder 2 | C. & G. Cooper Company, cash book , 1888-1896 |
| Box 3, Folder 3 | C. & G. Cooper Company, cash book, circa 1891-1895 |
| Box 3, Folder 4 | C. & G. Cooper Company, cash book , circa 1895-1899 |
| Box 3, Folder 5 | C. & G. Cooper Company, cash book , circa 1899-1903 |
| Box 4, Folder 1 | C. & G. Cooper Company, cash book , 1890-1903 |
| Box 4, Folder 2 | C. & G. Cooper Company, cash book , 1903-1912 |
| Box 4, Folder 3 | C. & G. Cooper Company, cash book , cicra 1903-1907 |
| Box 4, Folder 4 | C. & G. Cooper Company, cash book , circa 1901-1911 |
| Box 4, Folder 5 | C. & G. Cooper Company, cash book , circa 1911- 1914 |

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## Newsletters, 1917-1942

Scope and Contents: This series consists of select newsletters published by and for the employees of C. & G. Cooper Company and Cooper-Bessemer Corporation.

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| Box 54, Folder 3 | The Bessemer, 1929-01-26<br>Notes: Bi-monthly publication compiled by the Bessemer Gas Engine Company. |
| Box 54, Folder 3 | The Bessemer, 1929-04-06 |
| Box 5, Folder 1 | The Bessemer Monthly, 1919-07 |
| Box 5, Folder 1 | The Bessemer Monthly, 1919-09-1919-12 |
| Box 5, Folder 2 | The Bessemer Monthly, 1917-02-1917-03 |
| Box 5, Folder 2 | The Bessemer Monthly, 1917-05-1917-06 |
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| Box 5, Folder 3 | The Bessemer Monthly, 1920-07 |
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| Box 5, Folder 5 | The Bessemer Monthly, 1922-06 |
| Box 5, Folder 5 | The Bessemer Monthly, 1922-08 |
| Box 5, Folder 5 | The Bessemer Monthly, 1922-11-1922-12 |
| Box 5, Folder 6 | The Bessemer Monthly, 1923-03<br>Notes: Includes a feature article on "Local Color from the Mexican Oil Fields." |
| Box 5, Folder 7 | The Bessemer Monthly, 1926-10-1926-11 |
| Box 5, Folder 8 | The Bessemer Monthly, 1927-01 |
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| Box 5, Folder 10 | The Bessemer Monthly, 1929-04-1929-11 |
| Box 5, Folder 11 | Cobesco News, 1929-08-1929-10 |
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| Box 54, Folder 4 | Cobesco News, 1929-06-28 |
| Box 5, Folder 13 | Cooper-Bessemer Monthly, 1931-01 |
| Box 5, Folder 13 | Cooper-Bessemer Monthly, 1931-07 |
| Box 5, Folder 14 | Cooper-Bessemer Monthly, 1930-01-1930-06 |
| Box 54, Folder 11 | Cooper-Bessemer News, 1942 |
| Box 6, Folder 1 | Cooper-Bessemer Monthly, 1930-07-1930-12 |
| Box 6, Folder 3 | The Cooperator, 1920-06-1920-08 |
| Box 6, Folder 3 | The Cooperator, 1920-11-1920-12<br>Notes: Also spelled *The Co-Operator* |
| Box 6, Folder 4 | The Cooperator, 1921-01-1921-02 |
| Box 6, Folder 5 | The Exhaust, 1920-05 |
| Box 6, Folder 6 | Nickel Cast Iron News (The International Nickel Company) , 1931-12 |

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# Product and Sales Materials , 1870-1961

## Catalogs, 1870-1961

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| Box 6, Folder 8 | C. & G. Cooper Company, catalog , 1883, 1885-1886 |
| Box 6, Folder 9 | C. & G. Cooper Company, catalog , 1887, 1889 |
| Box 6, Folder 10 | Cooper Corliss Engine catalog (mock-up) , undated |
| Box 6, Folder 11 | Cooper-Roberts Company, catalog , 1895 |
| Box 54, Folder 5 | Cooper-Bessemer Corporation catalogs and product information , 1928, 1961, undated<br>Notes: Includes "95 Years of Engine Building, the C. & G. Cooper Company reprint from the *Oil and Gas Journal*, November 15, 1928 and "Tribute to Bessemer Diesel Marine Engine," reprint from *Motorship*, March 1928. |

## Price Lists, 1879-1900

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| Box 7, Folder 4 | Cooper-Bessemer Corporation product information request postcards, undated |
| Box 7, Folder 5 | Memo to branch managers, salesmen and servicemen, 1933 |
| Box 7, Folder 6 | Sales Bulletin on type GRA Clutch and type GRF reversing speed reducer, 1930 |
| Box 7, Folder 7 | Sales Manual on the Development of Industrial Engine Sales, 1930 |
| Box 7, Folder 8 | Sales Bulletin type GA Pumping and Drilling Engine, 1931 |
| Box 7, Folder 9 | Ice Refrigeration Sales Manual , undated |

## Trade Literature, 1925-1965

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| Box 7, Folder 10 | C. & G. Cooper Company, heavy duty Corliss engines, 1910 |
| Box 7, Folder 11 | Compressors, 1941-1948 |
| Box 8, Folder 1 | Compressors, 1931-1965 |
| Box 8, Folder 2 | Diesel engines, 1935-1965 |
| Box 8, Folder 3 | Diesel engines, 1928-1948 |
| Box 8, Folder 4 | Diesel generator, undated |
| Box 8, Folder 5 | Diesel locomotove , undated |
| Box 8, Folder 6 | Gas Economizer, 1927 |
| Box 8, Folder 7 | Gas Engines, 1925-1936 |
| Box 8, Folder 8 | Gas Engines, 1931-1946 |
| Box 9, Folder 1 | Gas and Diesel Engines, 1931-1950 |
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| Box 9, Folder 3 | Ice Refrigeration related, 1931-1933 |
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| Box 10, Folder 1 | Meehanite, 1937, 1945 |
| Box 10, Folder 2 | Oil Engines, 1927 |
| Box 10, Folder 3 | Oil Field Industry, 1928, 1931 |
| Box 10, Folder 4 | Pumping Engines, 1936-1947 |
| Box 10, Folder 5 | Victory Tool Shanks, 1942-1943 |
| Box 10, Folder 6 | C. & G. Cooper Company, spare and repair parts, undated |

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| Box 10, Folder 7 | Cooper-Bessemer product catalogs, undated |
| Box 10, Folder 8 | Carbide Milling Cutter Data Calculating Chart, 1946 |
| Box 10, Folder 9 | Chapman Water Jacketed Gas producer, 1932 |
| Box 10, Folder 10 | Crane Continous Refiner (Hoane-Crane Corporation) , 1939 |
| Box 10, Folder 11 | Ferguson Cross Section (Ferguson Engineers), [1928?] |
| Box 10, Folder 12 | Norma-Hoffmann Bearings Corporation, 1931 |
| Box 10, Folder 13 | Westinghouse Electric & Manufacturing Company , undated |

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# Advertising Materials , 1921-1945

Scope and Contents: Many advertisements feature Cooper-Bessemer products manufactured for the World War I and World War II effort.

In 1915, C. & G. Cooper and Company began manufacturing munitions--steel shells, special purpose lathes, surface grinders and multiple head cutting-off machines--which were all used for shell making. Additionally, the company made forging presses to be installed in Government arsenals, munitions plants and shipyards, and gas engines that could pump natural gas to war industries; marine engines for the emergency fleet; and steam tubines for torpedo destroyer boats.

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| Box 52, Folder 1 | C. & G. Cooper Company, advertisements, 1921-1922 |
| Box 60, Folder 1 | C. & G. Cooper Company, advertisements, 1893, 1896, 1911, 1913, 1924, undated |
| Box 52, Folder 2 | C. & G. Cooper Company, advertisements, 1923 |
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| Box 52, Folder 4 | Chapman-Stein Engineering Company (allied with C. & G. Cooper Company), advertisements, 1925 |
| Box 53, Folder 1 | C. & G. Cooper Company, advertisements, 1924 |
| Box 53, Folder 2 | C. & G. Cooper Company, advertisements, 1925 |
| Box 54, Folder 6 | Cooper-Bessemer Corporation, advertisements, 1936 |
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| Box 55, Folder 1 | Cooper-Bessemer Corporation, advertisements, 1940 |
| Box 55, Folder 2 | Cooper-Bessemer Corporation, advertisements, 1940 |
| Box 55, Folder 3 | Cooper-Bessemer Corporation, miscellaneous advertisements, 1941-1942 |
| Box 55, Folder 4 | Cooper-Bessemer Corporation, industrial advertisements, 1943 |
| Box 55, Folder 5 | Cooper-Bessemer Corporation, miscellaneous advertisements, 1943 |
| Box 55, Folder 6 | Cooper-Bessemer Corporation, miscellaneous advertisements, 1944-1945<br>Notes: Includes Spanish language advertisements Maquinaria Para Construccion, S.A., representatives in Mexcio for the Cooper-Bessemer Corporation. |

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| Box 55, Folder 7 | Cooper-Bessemer Corporation, miscellaneous advertisements, 1940s<br>Notes: This folder consists of color advertisements for Cooper-Bessemer products that support the World War II effort. Advertisements include images of war planes, war ships, and mine sweepers. Also includes a motivational poster titled "The Victory Saboteurs" asking Cooper-Bessemer employees to think first about taking a day-off and being absent from the job and how it will impact the war effort. |
| Box 10, Folder 14 | Industrial adevrtisements, 1944 |
| Box 10, Folder 15 | Marine advertisements, 1944 |
| Box 10, Folder 16 | Oil Field advertisements, 1944 |

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## Printed Materials , 1902-1953

Scope and Contents: Series includes writings and reports about Cooper-Bessemer products and diesel and gas engines broadly.

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| Box 11, Folder 1 | An Economical Steam Plant Report to Atlantic Mills Cross Compound Cooper Corliss Engine, 1902 |
| Box 11, Folder 2 | Cooper-Bessemer Corporation, Two Cast Iron Flywheels Laboratory Report No. 260, undated |
| Box 11, Folder 3 | The Diesel Engine, Petroleum Technology, No. 44, 1918 |
| Box 11, Folder 4 | Bessemer Manual of Gasoline Recovery , 1920 |
| Box 11, Folder 5 | Cylinder Sizes and Capacities for Hope 40 H.P. 2-Cylce , 1929 |
| Box 11, Folder 6 | Why Grove City borough Voted 9:1 for Its Municipal Diesel Plant, Diesel Power, 1930 |
| Box 11, Folder 7 | Standards of the Diesel Engine Manufacturers' Association , 1930 |
| Box 11, Folder 8 | Southwestern Gas and Electric Company, Industrial Power Rate, 1931 |
| Box 11, Folder 9 | The Laundry Power Plant, When Does It Pay to Use a Gas Engine In a Laundry, Laundry Age, 1931 |
| Box 11, Folder 10 | Report, Pressure Drop Thru Cooling System of the Type 75 and Type 80, 1930 |
| Box 11, Folder 11 | Papers delivered before the Gas Division of Oklahoma Utilities Association Convention , 1931 |
| Box 11, Folder 12 | Western Gas, the Gas Engine as a Load, 1931 |
| Box 11, Folder 13 | Diesel and Natural-gas Engines, [1931-1932?] |
| Box 11, Folder 14 | Series of illustrated Diesel Engine Lectures (by Ralph Boyer) , 1932 |
| Box 11, Folder 15 | Facts and Figures Concerning the Operation of Diesels for Water Service, Water Works Engineering, 1932 |
| Box 11, Folder 16 | Exhaust Valves on Cooper-Bessemer Engines by P.R. Letz, 1933 |
| Box 11, Folder 17 | An Illustrated Description of the Sewage Treatment Plant at Durham, North Carolina, 1935 |
| Box 11, Folder 18 | Application of Standard Design of Diesel Engine to Railways, 1936 |

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| Box 11, Folder 19 | Cooper-Bessemer Corporation Power Survey of Mt. Vernon Works, AC 3263-3936, 1937 |
| Box 11, Folder 20 | Electroplating Department, memoranda, 1938 |
| Box 11, Folder 21 | Babbitting Department, memoranda, 1938 |
| Box 11, Folder 22 | Cooper-Bessemer Product and Service News, 1938 |
| Box 12, Folder 1 | Cooper-Bessemer Corporation Accounting and Control manual, 1943 |
| Box 12, Folder 2 | Diesel Engine Adapted for Oil or Gas, The International Engineer, 1945 |
| Box 12, Folder 3 | Gas-Diesel Principle Applied to Supercharged and 2-Cycle Engines, Power, 1946 |
| Box 12, Folder 4 | Normas Y Practicas Americanas para Los Motores Diesel Estacionarios de Velocidades Baja Y Medio, 1948 |
| Box 12, Folder 5 | Society of Automotive Engineers, Status of Dual Fuel Engine Development, 1949 |
| Box 12, Folder 6 | Gas Diesel Still Stumps the Trade, Business Week, 1949 |
| Box 12, Folder 7 | Wear as Applied Particularly to Cylinders and Piston Rings, 1948 |
| Box 12, Folder 8 | American Society of Mechanical Engineers, Modern Gas Engine, 1951 |
| Box 12, Folder 9 | The Free Piston Type of Gas Turbine Plant and Applications, American Society of Mechanical Engineers, 1953 |
| Box 12, Folder 10 | Measuring Standards, memoranda, undated |
| Box 12, Folder 11 | Precision Bearings, memoranda, undated |
| Box 12, Folder 12 | Cooper-Bessemer Fuel Injection Systems Maintenance Manual, undated |
| Box 12, Folder 13 | Manual of Instructions, The Bessemer Oil Engine, undated |
| Box 12, Folder 14 | Lower Costs for Ice Refrigeration , undated |
| Box 12, Folder 15 | Operation and Conversion (O.F. and G.A.) Oil Engines Instructions, undated |
| Box 12, Folder 16 | Fuel Injection in Diesel Engines , undated |
| Box 12, Folder 17 | The Grasshopper and the Corliss (Carillon Park, Dayton, Ohio) , undated |
| Box 12, Folder 18 | Gas Engine Power Proves Economical in Clothing Plant, Southern Power Journal, undated |

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| Box 12, Folder 19 | Comparison Between Purchased Electric Power and Gas Engine Power Data, undated |
| Box 12, Folder 20 | Report No., 167, Nico Iron , undated |

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## Photographs, 1881-1930s

Scope and Contents: This series consists primarily of 8" x 10" black-and-white photographs and negatives documenting equipment manufactured by Cooper-Bessemer. Many of the photographs depict equipment installed at certain companies throughout the United States. Some of the photographs have typescript captions on the back, describing the name of the equipment and where and when it was installed.

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| Box 13, Folder 1 | Index to Photographs, 1953 |
| Box 13, Folder 2 | Index to Photographs of Diesel Engine Manufacturers Association , undated |
| Box 13, Folder 3 | C. & G. Cooper building, 1881 |
| Box 13, Folder 4 | Cooper Machine Shop employees, circa 1887 |
| Box 13, Folder 5 | Naumkeag Steam Cotton Company , 1895 |
| Box 13, Folder 6 | [Shop?] employees, 1902 |
| Box 13, Folder 7 | C. & G. Cooper building, 1907 |
| Box 13, Folder 8 | C. & G. Cooper Company, factory employees at Mt. Vernon, Ohio, circa 1909 |
| Box 13, Folder 9 | C. & G. Cooper Company, horizontal cross compound Corliss condensing 36" x 66" x 60" 80 RPM , 1911 |
| Box 13, Folder 10 | C. & G. Cooper gas engine with alternator (Libby-Owens-Ford Company), 1914 |
| Box 13, Folder 11 | Bessemer Gas Engine Company at the Panama-Pacific Exposition, 1915 |
| Box 13, Folder 12 | Company gathering , 1917-04 |
| Box 13, Folder 13 | C. & G. Cooper Company, Second Annual Outing of Department Heads, 1919 |
| Box 13, Folder 14 | Bessemer Gas Engine Company at Tulsa, Oklahoma Oil Exposition , 1923, 1927 |
| Box 13, Folder 15 | Diesel Plant, circa 1920s |
| Box 13, Folder 16 | Cooper Twenty Year Club, 1922 |
| Box 13, Folder 17 | Bessemer engine installations (various locations in the United States), 1926-1928 |
| Box 13, Folder 18 | Cooper-Bessemer engines at Hanlon-Buchanan Gasoline Plant, 1935 |
| Box 13, Folder 19 | Engine 38929 at Magnolia Petroleum Company , 1936 |

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| Box 13, Folder 20 | Hotel Curtis, Mt. Vernon, Ohio , 1930s |
| Box 13, Folder 21 | Maritime "M" Award, 1940s |
| Box 13, Folder 22 | Japanese Visit to Cooper-Bessemer Corporation , 1951 |
| Box 13, Folder 23 | C. & G. Cooper tandem comp Corliss, Acme Box Company, Baltimore , 1954 |
| Box 14, Folder 1 | Large Cooper engine , undated |
| Box 14, Folder 2 | Unidentified negatives, undated |
| Box 14, Folder 3 | Corliss condensing engine 26" x 36" , undated |
| Box 14, Folder 4 | Stationary Steam Engine with rider automatic cut-off built by C. & G. Cooper , undated |
| Box 14, Folder 5 | Bessemer Gas Engine Company, Los Angeles, California, Office , undated |
| Box 14, Folder 6 | C. & G. Cooper Company, main office, undated |
| Box 14, Folder 7 | C. & G. Cooper Company, gas and oil engine displays, undated |
| Box 14, Folder 8 | Aerial view of the Cooper-Bessemer Corporation , undated |
| Box 14, Folder 9 | Carl [Critchfield?] engineer for C. & G. Cooper Company on factory floor, undated |
| Box 14, Folder 10 | Testing in shop with employees, undated |
| Box 14, Folder 11 | C. & G. Cooper Company, unidentified buildings, undated |
| Box 14, Folder 12 | Eight throw crank shaft placed in engine for largest diesel engine driven yacht ever built, Titusville Forge Company , undated |
| Box 14, Folder 13 | Chapman Engineering, Marion Plant Group, undated |
| Box 14, Folder 14 | Hammer Cooper Chokers (group of unidentified men, possibly engineers), undated |
| Box 14, Folder 15 | Kirck, Desault B. (treasurer) , undated |
| Box 14, Folder 16 | Taylor, Zenno E. , undated |
| Box 14, Folder 17 | Gas turbine engines, 1960s |
| Box 14, Folder 18 | Woodward Governor, relief valves, lube oil pump, fuel distributing system, 1936 |

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| Box 14, Folder 19 | Engine and compressor installations [Kettleman Hills], undated |
| Box 14, Folder 20 | Unidentified , undated |
| | Grove City, Pennsylvania and Mt. Vernon, Ohio, Plants |
| Box 14, Folder 21 | Erection and parts, 1930s |
| Box 14, Folder 22 | Erection and parts, 1930s |
| Box 14, Folder 23 | Machines, tools and equipment, 1930s |
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## Air Brushed Photographs/Renderings, 1909-1930s, undated

Scope and Contents: This series consists of air brushed black-and-white photographs, primarily of engines, generators, parts, and some buildings, mounted on mat board with annotations about dimensions, where to add color and text and other production notes. Some of the photographs are described and numbered, noting a negative number, the type of engine, the name of a building and the name of the company and location of the engine installation. In some instances, the original photographers name is noted. However, most are unidentified.

Some mat boards also contain who completed the art work. Cooper-Bessemer contracted with outside firms and indivduals such as Arthur J. Olson of Cleveland, Ohio; the Powers-House Company; Terry Engraving Company, Columbus, Ohio; the Bartlett Orr Press File; and Chasmar-Winchell Prep Art Department; and Wightman-Hicks, Inc.

These images were presumably used for assembling the company catalog, product literature, and other promotional materials. Air brushing allowed artists to create highly rendered images with a high level of realism.

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| Box 59, Folder 1 | Drawing, "This is America!", 1944<br>Notes: Original art by John Ranck describing the founding of Cooper-Bessemer. |
| Box 59, Folder 2 | Drawing, Cooper-Bessmer Model RT-248 |
| Map-folder 1 | Plat belonging to the late John [Hamtrauck?], County of Knox, Ohio (traced from parchment map owned by the Rev. L.W. Mulhane, 1920 |
| Map-folder 1 | E-416, Setting plan for 18" x 36" H.P. left hand Corliss engine, 1859 sold to the Toledo Reduction and Fertilizer Co., Toledo, Ohio, 1904-09-01<br>1 Drawing (26" x 19" )<br>Notes: Shipped November 8, 1904. Engine equipped with girder bed plate, 10 ft. band wheel having 30" face. Steam enters top of cylinders through elbow angle throttle valve |
| Map-folder 1 | F-321, Setting plan for 20" x 30" H.P. left hand Corliss engine #1929- sold to the Reliance Portland Cement Co., Coplay, Pennsylvania, 1905-06-22<br>1 Drawing (30" x 26")<br>Notes: Shipped Dec. 1, 1905. Two-piece Tangye bed plate, 12-ft. wheel turned for 15--1-1/4" ropes. Molding and oil pan. Steam enters top of cylinder through 7" elbow angle throttle valve |
| Map-folder 1 | L-247, Setting plan for 18" x 38" H.P. left hand Corliss engine #2331 sold to the Delaware Lackawanna and Western Railroad Co., Scranton, Pennsylvania, 1910-06-27<br>1 Drawing (42" x 36")<br>Notes: Shipped Sept. 1, 1910. Combination Tangye bed plate. 13-ft. band wheel with 28" face. Shaft and foundation so made that an additional duplicate wheel could be added at some future time. Molding and oil pan. Steam enters top of cylinder through 7" globe throttle valve |
| Map-folder 1 | K-199, Setting plan for 8" x 24" H.P. left hand Corliss engine #2177 sold to the Franklin Foundation (an educational institution), Boston, Massachusetts, undated<br>1 Drawing (37" x 35" )<br>Notes: Shipped February 20, 1909. This is the smallest Corliss engine C. & G. ever built. Combination Tangye bed plate. 7-ft band wheel with 13" face. Molding and foundation plate. Steam enters top of cylinder through 3" elbow angle throttle valve. |
| Map-folder 1 | M-208, Setting plan for 20" and 40" x 48" cross-compound Corliss engine #1696 sold to the Cooleemee Cotton Mills, Cooleemee, North Carolina, 1902-11-02<br>1 Drawing (49" x 32")<br>Notes: Shipped April 29, 1903. Two-piece Tangye bed plates. l8-ft. wheel turned for 31— 1-3/4-" ropes. Molding and foundation |

plate. Steam enters top of high pressure cylinder through 8" globe throttle valve.

Map-folder 1

M-236, Setting plan for 48" and 84" x 60" cross-compound Corliss engine #2068 sold to the Lackawanna Steel Co., Buffalo, New York , 1907-02-01
1 Drawing (51" x 37")
Notes: Shipped August 1, 1907. 22-ft. flywheel. cylinder through 18" globe throttle valve

Map-folder 1

J-118, Setting plan for 42" and 74" x 60" right-hand tandem compound Corliss engine #2015 sold to the Carnegie Steel Company, Pittsburgh, Pennsylvania , 1906-07-16
1 Drawing (45" x 29")
Notes: Shipped November 16, 1906. Two piece Tangye bed plate. 22-ft. flywheel. Steam enters top of high pressure cylinder through 15" globe throttle valve.

Map-folder 1

M-193, Setting plan for 30" and 52" x 60" double tandem-compound Corliss engine sold to the Page Woven Wire Fence Company, Monessen, Pennsylvania., undated
1 Drawing (50" x 32" )
Notes: Left-hand side #1479 shipped on November 24, 1899. The right-hand side #1596 was added August 23, 1901. Two-piece Tangye bed plates, 22 foot wheel with 35 2" ropes and moldings. Steam enters top of both high presure cylinders through 10" globe throttle valve.

Map-folder 1

L-176, Setting plan for l4" and 26" and 40" x 30" horizontal triple-expansion engine #1802 sold to Camden Iron Works, Camden, New Jersey for installation at the New Orleans, Louisiana Sewerage Plant, 1904-03-08
1 Drawing (42" x 34")
Notes: Shipped May 11, 1906. Girder bed plates, moldings and foundation plates. Steam enters top of high pressure cylinder through 5" butterfly valves also 5" globe throttle valve. For vertical-shaft centrifugal pump. 3 cylinders 60° apart.

Map-folder 1

H-314, Drawing of 26" x 36" single vertical condensing Corliss engine with end and side elevations, 1887
1 Drawing (34" x 26" )

Map-folder 1

F-350, Drawing of 32" x 60" right-hand Corliss engine, equipped with girder bed plate and hand wheel. Elevation and plan, undated
1 Drawing (24" x 26" )

Map-folder 1

H-306, Show drawing of 18" x 30" single Cooper Corliss engine equipped with lugs and piston rod for later converting to tandem. Combination Tangye bed plate. Plan and elevations, undated
1 Drawing (37" x 31" )

Map-folder 1

N-17, Drawing, front view of 22" x 36" single standard Cooper Corliss engine with girder bed plate for making cut, undated

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|---|---|
| | 1 Drawing (50" x 30" ) |
| Map-folder 1 | N-18, Drawing, back view, of 22" x 36" single standard Cooper Corliss engine, with girder bed plate for making cut, 1908-01-12<br>1 Drawing (50' x 30" ) |
| Map-folder 1 | F-368, Drawing of 22" and 40" x 18" cross-compound engine, equipped with two-piece Tangye bed plates and D.C. generator, elevation and plan, undated<br>1 Drawing (31" x 22" ) |
| Map-folder 1 | L-222, Drawing of 42" and 74" x 54" left-hand tandem engine #1968, equipped with two-piece Tangye bed plate and flywheel. Cylinders shown partially in section, for making cut. 1906. Plan and elevation, 1906<br>1 Drawing (42" x 34" ) |
| Map-folder 1 | Wash rendering of right-hand, horizontal, slide-valve, throttle-governing engine, undated<br>1 Drawing (29" x 21" )<br>Notes: "Stationary Steam Engine, With Rider's Automatic Cut-Off Built by C. & G. Cooper & Co. Mt. Vernon, Ohio. J. C. Debes, Del." Unlike any engines shown in Cooper catalogs 1874-1888. Possibly experimental design. Cantilevered guide bed plate. |

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