



E. G. Bailey papers 2092

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Describing Archives: A Content Standard

Manuscripts and Archives

PO Box 3630

Wilmington, Delaware 19807

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Summary Information

Repository:	Manuscripts and Archives
Creator:	Bailey, E. G. (Ervin George), 1880-1974
Title:	E. G. Bailey papers
ID:	2092
Date [inclusive]:	1873-1991
Physical Description:	8 Linear Feet
Language of the Material:	Some items in French and German.
Abstract:	Ervin George "E. G." Bailey (1880-1974) was a combustion engineer, inventor, and businessman. His personal papers include correspondence and articles on subjects relating to combustion engineering, and information about awards and honors Bailey received and conferences he participated in. Bailey's papers include copies of numerous speeches and publications on combustion engineering and engineering education.

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Biographical Note

Ervin George "E. G." Bailey (1880-1974) was a combustion engineer, inventor, and businessman.

Bailey was born in Damascus, Ohio, on December 25, 1880. He was mechanically precocious as a child and invented a number of mechanisms while working in his father's sawmill and farm. He studied mechanical engineering at The Ohio State University under E. A. Hitchcock (1866-1948), and was a classmate and friend of Charles F. Kettering (1876-1958), later of General Motors. After five years in the Test Department of the Consolidation Coal Company, Bailey was recruited by Arthur D. Little (1863-1935) of Boston to establish a Coal Department in 1907. Two years later, he established the Fuel Testing Company with two college friends.

In 1915, Bailey invented the Bailey boiler meter, the first device to accurately measure boiler inputs and steam output. The Bailey Meter Company was organized in Boston on January 1, 1916, and moved to Cleveland three years later. In 1922, Bailey produced the Bailey automated control system, which regulated the air and fuel supply to boilers. The Bailey meters were part of the culmination of traditional steam technology, achieving maximum efficiency from coal-fired boilers.

Bailey sold the controlling interest in the company to the Babcock & Wilcox Company in 1925. He became president of another B&W subsidiary, the Fuller-Lehigh Company, a manufacturer of coal-pulverizing equipment, and moved to Easton, Pennsylvania. He also served as a B&W vice president from 1931 to 1951 and became B&W's largest individual stockholder. In 1927, B&W sold a one-third interest in the Bailey Meter Company to General Electric in return for GE's flow-meter business. GE sold its shares back to B&W in the early 1950s. However, the purchase gave Bailey Meter access to GE's expertise and enabled it to expand into the field of electrical and electronic process controls and cultivate the chemical and nuclear industries as traditional steam technology became obsolete. B&W was absorbed by McDermott International in 1975, and the Bailey Meter Company was renamed the Bailey Controls Company. On November 1, 1989, Bailey was sold to Elsag, a subsidiary of an Italian conglomerate.

E. G. Bailey retired as chairman of the Bailey Meter Company in 1956. He continued to be active in consulting work and engineering education until shortly before his death at Easton on December 18, 1974. Bailey held 141 patents and was the recipient of many engineering honors, including the Fritz Medal in 1952.

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Scope and Contents

The E. G. Bailey papers are a personal collection of materials Bailey retained in his home after his retirement. The papers document Bailey's work as a combustion engineer, a corporate leader, and a promoter of engineering education.

His personal papers include correspondence and articles on subjects relating to combustion engineering, and information about awards and honors Bailey received and conferences he participated in. Bailey's papers include copies of numerous speeches and publications on combustion engineering and engineering education. They include official copies of Bailey's patents, other patents in his interest areas, and deeper information, including blueprints, drawings, reports, and correspondence about patents developed in retirement. The papers include Bailey Meter Company publications; a series of the company magazine, *Bailey Meter Record*; and Bailey Meter Company bulletins and trade catalogs. The papers document Bailey's involvement in engineering research and company management in both Bailey Meter Company and Babcock & Wilcox. They document his involvement with the American Society of Mechanical Engineers and his efforts to work through that organization to promote engineering as a profession.

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Organization of the Collection

This collection is organized into series:

- 1 I., E.G. Bailey personal papers
- 2 II., Speeches and publications
- 3 III., E.G. Bailey's patents
- 4 IV., Bailey Meter Company
- 5 V., Babcock & Wilcox records
- 6 VI., American Society of Mechanical Engineers
- 7 VII., Posthumous collections of Bailey

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Administrative Information

Publication Statement

Manuscripts and Archives

PO Box 3630

Wilmington, Delaware 19807

askhagley@hagley.org

URL: <http://www.hagley.org/library>

Revision Description

Laurie Sather 2021

Access Restrictions

This collection is open for research.

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Related Materials

Separated Materials

E. G. Bailey photographs (Accession 1999.238), Audiovisual Collections and Digital Initiatives Department, Hagley Museum and Library.

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Controlled Access Headings

- Engines
- Speeches
- Mechanical engineering
- Patents

Collection Inventory

E.G. Bailey personal papers, 1903-1973

Scope and Contents

His personal papers include correspondence and articles on subjects relating to combustion engineering, and information about awards and honors Bailey received and conferences he participated in.

Title/Description	Instances
Atomic energy, miscellaneous articles	box 1
Bailey, E. G., biographical items	box 1
Scope and Contents	
Includes several short biographies, letters, clippings from "Who's Who," family information, and a personal questionnaire.	
Bailey, E. G., booklists of volumes owned, 1947-1953	box 1
Bailey, E. G., honorary degrees: Lehigh University, Ohio State, Lafayette College, 1937-1941-1942	box 1
Bailey, E. G., income tax return, 1973	box 1
Scope and Contents	
Includes charitable contributions.	
Bailey, E. G., correspondence, 1951	box 1
Bailey, E.G., correspondence, 1971	box 1
Battelle Memorial Institute, 1957	box 1

Scope and Contents

Includes story of institute, contract, and report of Bailey's research on concurrent flow heat furnace process.

Cermak, J. J., of Czechoslovakia, correspondence about cyclone burner	box 1
Cermak, J. J., illustrations of cyclone burner, including photographs, 1947	box 1
Cleveland Engineering Society, Bailey's honorary membership, 1971	box 1
Coal and Coke, articles collected by Bailey	box 1
Fairmont Coal Co., 1903	box 1

Scope and Contents

Bailey's first job.

Franklin Institute Longstreth Medal, awarded to Bailey for Bailey meter	box 1
Gordon Research Conference on Combustion and Gasification, 1952	box 1
Hartley, Sir Harold, and Arthur Squire's correspondence about fuel research and articles by Hartley	box 1
Heat pump, progress report	box 1
Hitchcock, E. A., reports on investigation of fireplace as heating device, 1938	box 1
Instrument Society of America, Bailey honored, 1954	box 1
"Invention and Engineer's Relation to It," addresses and discussion, 1938	box 1
Kettering, C. F., address to electrical engineers	box 1
Kettering, C. F., honored by Centennial of Engineering, 1952	box 1
Kettering Award, correspondence about award and memorials of Kettering	box 1
Koppers Company, correspondence about use of Bailey's shrouded fuel patents	box 1
Lafayette Mining Conference, 1941	box 1
Locomotive boiler tests, 1908	box 1
Management, notes	box 1
Ohio State University, Alumni Centennial Award, Bailey's application and award, 1970	box 1

Ohio State University, Bailey receives Lamme Medal for outstanding engineering, acknowledgment and correspondence	box 1
Ohio State University, Hall named in honor of E. A. Hitchcock	box 1
Purdue University correspondence	box 1
Sosman, Edward and Robert, correspondence about fuel testing	box 1
Spahr, Charles W., personal correspondence, 1969	box 1
Steam boilers, notes	box 1
U.S. Defense Department, reports and correspondence on Texaco Combustion Process	box 1
U.S. Navy Symposium on hydro propulsion, 1951	box 1
U.S. Navy, hydrodynamic research in Germany, restricted technical report, 1945	box 1
World Minerals and World Peace, Bailey's comments and blueprints	box 1
World Power Conference, London, proceedings of conference and correspondence, 1950	box 1

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Speeches and publications, 1910-1967

Scope and Contents

Bailey's papers include copies of numerous speeches and publications on combustion engineering and engineering education.

Title/Description	Instances
Lists of Bailey's speeches	box 1
Action of Slag from Fuel in Boiler Furnaces, 1938	box 1
American Industries Built on Engineering & Science Can Save World, 1948	box 1
American Industry Can Lead the World in Human Relations, 1949	box 1
Automatic Control of Boiler Plants, 1930	box 1
Scope and Contents	
Includes correspondence.	
Boiler Control, 1942	box 1

Scope and Contents

Includes correspondence, blue prints, and program.

Building a Company with Engineering Graduates, 1951	box 1
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Can Engineering Graduates Man a Company?, 1952	box 1
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Scope and Contents

Includes publications.

Coal Follows Through, 1942	box 1
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Scope and Contents

Includes program and correspondence.

Coal for Pulverizing and Burning, 1930	box 1
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Coal Problem, 1918	box 1
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Combustion Control, 1924	box 1
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Combustion of Coal and Utilization of Heat in Steam Boilers	box 1
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Draft in Furnaces and Flues, 1915	box 1
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Duties of Industry to Engineering Education, 1950	box 1
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Economics of Combustion, 1955	box 1
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Employer Practice Regarding Engineering Graduates, 1946	box 1
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Engineer and Internationalism, 1948	box 1
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Engineering and Industry, 1950	box 1
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Engineering and Invention, 1950	box 1
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Scope and Contents

Includes related drafts for ASME.

Engineering Opportunities in Industry, 1948	box 2
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Scope and Contents

Includes several drafts.

Engineering Opportunities in Instrumentation, 1948	box 2
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Scope and Contents

Includes drafts.

Fuel and Power, 1939	box 2
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Fuel for Power and Processes, 1947	box 2
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Fusing Temperatures of Ash, 1910	box 2
Future in Engineering Education, 1944	box 2
Scope and Contents	
Includes correspondence.	
Future of Northern West Virginia Coal, 1942	box 2
General Electric Camp Circuit Meeting, 1935	box 2
Scope and Contents	
Includes GE organization chart, program, and correspondence.	
Great Debate, panel discussion on foreign policy, 1951	box 2
Heating by Forced Circulation of Hot Water in Textile Mills, 1915	box 2
How to Bum Coal in Pittsburgh District, 1947	box 2
Scope and Contents	
Includes correspondence.	
How to Sample Coal and Coke, 1910	box 2
Industries of Lehigh Valley, 1927	box 2
Interpretation of Coal Analysis with Reference to Non-Combustibles, 1916	box 2
Invention and Sifting Out Engineering Facts, 1949	box 2
Scope and Contents	
Clayton Lecture; includes illustrations, drafts, news clippings, correspondence, and ASME Journal.	
Lafayette College address, 1967	box 2
Limiting Factors in Reducing Excess Air in Boiler Furnaces, 1926	box 2
Look into the Future of Fuels, 1947	box 2
Maximum Output from Existing Boiler Plants, 1942	box 2
Method Harvard University Buys Steam on an Heat Unit Basis, 1916	box 2
Modern Boiler Furnace, 1939	box 2
Operation History of the 2500-Psi Twin Branch Plant, 1944	box 2
Opportunities for American Engineers Abroad, 1948	box 2
Past and Future Trends in Steam Boiler Design, 1945	box 2
Power-Plant Instruments and Meters, 1920	

	box 2
Power from Combustion, 1955	box 2
Present Status of Furnace and Burner Design for Pulverized Fuel, 1928	box 2
Prevention of Furnace Explosions, 1937	box 2
Progress in Use of Coal for Steam Generation, 1940	box 2
Projection Lines for Coal Research, 1937	box 2
Pulverized Coal as it Appears Today, 1935	box 2
Pulverized Coal Firing of Industrial Furnaces, 1944	box 2

Scope and Contents

Includes blueprints.

Recording Ash-Pit Loss from Chain-Grate Stokers, 1921	box 2
Relation of Steam-Generating Equipment to Preparation, Selection, and Burning Bituminous Coal, 1935	box 2
Removal of Ash and Loss of Carbon from Boiler Furnaces, 1928	box 2
Research in Bituminous Coal, 1943	box 2
Significance of Coal-Ash Fusing Temperature, 1940	box 2
Slag-tap Furnace and Effect on Selection of Coal, 1930	box 2
Smoke Abatement in New England, 1910	box 2
Some Factors in Furnace Design for High Capacity, 1928	box 2
Standard of Living and Power, 1944	box 2

Scope and Contents

Includes correspondence.

Steam Boiler Performance and a Method of Comparison, 1939	box 2
Steam Generation for Marine and Stationary Service in U.S., 1943	box 2
Steamotive, 1936	box 2
Steps in Engineering Progress, 1948	box 2
Three Approaches to College Problems, 1944	box 2

Scope and Contents

Includes correspondence.

Trends in Coal Consumption, 1940	box 2
Trends in Steam-Generating Equipment, 1949	box 2

What is a College Education Worth?, 1930

box 2

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E. G. Bailey's patents, 1873-1974

Scope and Contents

This series includes official copies of Bailey's patents, other patents in his interest areas, and deeper information, including blueprints, drawings, reports, and correspondence about patents developed in retirement.

Title/Description	Instances
Lists of Bailey's patents	box 2
Bailey, E. G., patents, 1914-1970	box 2
Canadian patents, 1922-1924	box 3
Monthly patent letters, Babcock & Wilcox, 1943-1947	box 3
Bailey, E. G., correspondence with patent attorney about foreign patents and patents in general, 1967-1974	box 3
Bailey, E. G, patent development: Apparatus for Coking High Moisture Coal, Serial #561,105, 1968	box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E. G, patent development: Apparatus for Continuously Carbonizing Coal, Serial #75,998, 1960

box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E. G, patent development: Divisional Application for Vertical Kiln, Serial #307,418, 1967

box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E.G., patent development: Hot Rock Method for de-Polluting Flue Gas, no serial #, 1970

box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E. G., patent development: Method and Apparatus for Metal Reduction, Serial #817,143, 1962 box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E. G., patent development: Method for Production of Solid Aggregate from Reactible Inorganic Materials in Vertical Kiln, Serial #307,390, 1967 box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E.G., patent development: Processing of Solid Fuel for Gas Production, Serial #817,315, 1962 box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E.G., patent development: Protection Against Gas Explosions, Serial #292,967, 1963 box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E. G., patent development: Reduction of Iron Ore, Serial #61,633, 1960 box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E.G., patent development: Shrouded Fuel Application, Serial #692,932, 1968 box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E.G., patent development: Shrouded Fuel for Blast Furnace and Vertical Kilns, Serial #307,390, 1963 box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E. G., patent development: Shrouded Fuel for Blast Furnace Operation, Serial #370,278, 1966 box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E. G., patent development: Solid Fuel Furnace, Serial # 173,038-9, 1962 box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E. G., patent development: Supplying Fuel as Part of Blast Furnace Charge, Serial #837,575, 1969 box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E. G., patent development: Vertical Cement Kiln for Making Molten Clinker, Serial #307,418 box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Bailey, E. G., patent development: Vertical Kiln for Production of Solid Aggregate (Dogleg application) Serial #589,787, 1967 box 3

Scope and Contents

Includes correspondence with patent attorney, patent applications, drawings, reports, news clippings, and other patents.

Patents belonging to others, 1873-1971 box 4

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Bailey Meter Company, 1908-1980

Scope and Contents

The papers include Bailey Meter Company publications; a series of the company magazine, *Bailey Meter Record*; and Bailey Meter Company bulletins and trade catalogs. The papers document Bailey's involvement in engineering research and company management in the Bailey Meter Company.

Title/Description	Instances
Bailey Meter Record, editions, 194319461950	box 4
Bailey Meter Record (Croydon editions), 19511952	box 4
Bailey Meter Record (bound volume), 1952 March-1955 December	box 4
Bailey Meter Record (bound volume), 1956 February-1959 December	box 4
Bailey Meter Record (bound volume), 1960 February-1963 December	box 4
Bailey Meter Record (bound volume), 1964 February-1968 December	box 4
Bailey Meter Record, editions, 1967	box 4
Bailey Record, editions, 1969	box 4
Bailey Record, edition featuring Bailey's death, 1975 January	box 4
Gazette Bailey (in French), 1947	box 4
Bailey Meters Bulletins (nos. 5-40)	box 4
Bailey Meters Bulletins (nos. 41-90)	box 4
Bailey Meters Bulletins (nos. 91-150)	box 4
Bailey Meters Bulletins (nos. 151-232)	box 4
Bailey Meters Bulletins (nos. 300 and up)	box 4
Fuller and Lehigh Bulletins, 19241926	box 4
Bailey Meter Company pocket calendars, 1930-1980	box 5
Bailey Meter Company instructions, 1941-1942	

	box 5
Bailey Meter Company miscellaneous publications	box 5
Bailey Meter Co. catalog and parts list, 1934	box 5
Bailey Catalog of Meters and Controls (bound volume), 1960	box 5
Bailey Customer Catalog (bound volume), 1976	box 5
Bailey, E. G., address to Bailey Meter Company, 1946	box 6
Bailey, E. G., correspondence, 1908-1922	box 6
Bailey, E. G., recollections of Bailey Meter Company, 1968-1973	box 6

Scope and Contents

Includes correspondence about the company, information about members of original board of directors.

Bailey Electro-chemical Oxygen Analyzer, 1968	box 6
Bailey Furnace Wall, report of operation and blueprints, 1925	box 6
Bailey Furnace Wall manual, 1928	box 6
Bailey Meter Company 40th anniversary, 1956	box 6

Scope and Contents

Includes employee address lists and years of service, company financial statements, history of company, program and report of anniversary celebration, remarks by Robert Coffin.

Bailey Meter Company annual report, 1918	box 6
Bailey Meter Company consolidation with Babcock & Wilcox, correspondence, 1926	box 6
Bailey Meter Company inter-office memorandum, 1920	box 6
Bailey Meter Company Service Recognition Day, remarks by Bailey and program, 1964	box 6
Bailey Meter Control, how the Bailey meter operates, 1926	box 6
Calcining Rate Test program report, 1969	box 6
Cleveland Electric Illuminating Co., 1926	box 6

Scope and Contents

Includes Bailey meter service reports blueprints, photographs of Bailey furnace walls, and correspondence.

Financial statements by Price Waterhouse, 1952	box 6
Fuller and Lehigh Company, consolidation with Babcock & Wilcox, 1926	box 6

Scope and Contents

Includes financial statements, organization charts, correspondence, lists of parts and assemblies furnished by F.& L.

Fuller and Lehigh Company, miscellaneous papers to 1930, to 1930	box 6
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Scope and Contents

Includes correspondence, financial statements, Christmas program plans.

Gas! Air Controls on Boilers, 1971	box 6
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Planimeters, 1937	box 6
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Scope and Contents

Includes chart, blueprint, and correspondence.

Rueter, Peter, correspondence, 1956	box 6
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Babcock & Wilcox records, 1932-1973**Scope and Contents**

This series documents Bailey's involvement in engineering research and company management in Babcock & Wilcox.

Title/Description	Instances
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Alliance Research Center, 1958	box 6
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Babcock & Wilcox papers, 1968	box 6
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Scope and Contents

Includes miscellaneous information about the company including performance relative to other companies.

Babcock & Wilcox Atomic Energy Division report, 1955	box 6
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Babcock & Wilcox board of directors meeting, 1956	box 6
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Scope and Contents

Includes agenda of meeting, Bailey's remarks, and reports of company performance.

Babcock & Wilcox conference, Paris minutes and papers, 1947	box 6
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Babcock & Wilcox customer installations	box 6
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Babcock & Wilcox furnace explosion reports, 1947	box 6
Babcock & Wilcox miscellaneous items	box 6
Babcock & Wilcox patent application, 1932	box 6
Babcock & Wilcox plant tour, 1952	box 6
Babcock & Wilcox proposed purchase of property, 1955	box 6
Babcock & Wilcox research and development reports, 1947-1952	box 6
Babcock & Wilcox service reports, 1950	box 6
Babcock & Wilcox stock and financial statements, 1955	box 6
Babcock & Wilcox tubing products project, 1955	box 6
Babcock & Wilcox 21-year Service Club, dinner programs and list of members, 1951-1952	box 6
Bailey Blocks at Staythorpe Generating Station, 1952	box 6
Bailey, E. G., list of Bailey's new ideas	box 6
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #2903, "Reversible Fixed Bed Pebble Heater for High Temperature Air"	box 6
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #2947, "Utilization of Pebble Cooling Chamber for Water Gas Production"	box 6
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #2963, "Melting Furnace for Glass, Cement, Refractory, or Other Materials"	box 6
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #2964, "Driving Gas from Coal as it is being Fired"	box 6
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #2967, "Superheater Boiler with Top Bum Firing"	box 6
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #2975, "Arrangement for Burning Oil in Hot Air Combustion or Top Bum Furnace"	box 6
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #2990, "Method of Burning Fine Anthracite with Bituminous Involving Vertical Coking Tube"	box 7
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #3044, "Steam Boiler Unit for Top Bum Coal Firing"	box 7
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #3045, "Carbon Refractories for High Temps"	box 7
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #3514, "Cascade Type Furnace for Locomotive Firing."	box 7
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #3519, "Spreader Cyclone"	box 7

Bailey, E. G., new ideas submitted to Babcock & Wilcox: #4430, "Top Burning Slag Tap Furnace with Gas Recirculation"	box 7
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #4451, "Once Through Supercritical Boiler Operating at High Pressure, Characterized by Low Heat Requirements"	box 7
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #4473, "Iron Ore Reduction"	box 7
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #4577, "Top Bum Furnace with Moving Hearth"	box 7
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #5297, "Method of Burning Coal for Steam Boiler Operation"	box 7
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #5300, "Top Bum Method for Burning Coal Under Steam Boiler"	box 7
Bailey, E. G., new ideas submitted to Babcock & Wilcox: #5366, "Top Burn Method for Burning Coal"	box 7
Bailey, E. G., trip to Europe, 1936	box 7
Scope and Contents	
Includes overseas B&W address list and telegrams.	
Bailey Inventions, Inc., correspondence regarding Bailey's patent rights as they related to Babcock & Wilcox	box 7
Boiler development, 1953	box 7
Boiler problems, 1946	box 7
Coal Fired Locomotive Steam Generator for Eastern Railroad, 1947	box 7
Scope and Contents	
Includes report, blueprints and photographs.	
Crushed Coal Burner for Locomotive Boiler, 1948	box 7
Scope and Contents	
Includes blueprints.	
DeBaufre, William, Babcock & Wilcox law suit over Bailey's patent dealing with gas recirculation for steam temperature control, 1954	box 7
Deutsche Babcock & Wilcox, German subsidiary financial report, 1935-1936	box 7
Electric Drive Locomotive, 1948	box 7
Employment opportunities for graduating engineers, miscellaneous items	box 7

Furnace tube wastage, 1943	box 7
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Scope and Contents

Includes blueprints, photographs, and reports.

Haas, Frank, correspondence on preventing clinker, 1933	box 7
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Hoover Dam Project, 1932-1935	box 7
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Scope and Contents

Includes blueprints, progress reports, correspondence, news clippings, and publications about the dam.

Investigation of Top Burn Method of Burning Fuel, 1953	box 7
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MHD (Magnetohydrodynamic) concept, 1960	box 7
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National Petroleum Association Symposium on Gas Turbine Engines, 1955	box 7
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Pebble Heater, description, 1942	box 7
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Smith, W. C., correspondence on dissociation of CO ₂ , 1959	box 7
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Standards for Pulverized Fuel Systems, 1943	box 7
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Steamotive or steam-electric locomotives, 1939	box 7
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Tubing products project, report, 1955	box 7
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Underground Gasification of Coal, 1947-1973	box 8
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Scope and Contents

Includes correspondence, blueprints, drawings, and reports.

Vertical Fuel Bed Method for Removing Gases during Combustion, 1971	box 8
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American Society of Mechanical Engineers, 1920-1969

Scope and Contents

This series documents his involvement with the American Society of Mechanical Engineers and his efforts to work through that organization to promote engineering as a profession.

Title/Description	Instances
ASME annual meetings	box 8
ASME Forum for New Members, 1955	box 8
ASME fundraising for Engineering Center, 1959	box 8

ASME honors, 1962	box 8
ASME New England Conference on Combustion, 1956	box 8
Scope and Contents	
Includes programs, addresses given, and publication.	
ASME publications, 1920-1935	box 8
ASME publications, 1960-1969	box 8
ASME personnel, Bailey president, 1948	box 8
ASME research on properties of gas, 1946-1947	box 8
ASME violent storms project, 1962	box 8
Bailey, E. G., ASME correspondence, 1952-1960	box 8
Bailey, E. G., receives John Fitz Medal from ASME, 1951	box 8
Scope and Contents	
Includes programs, correspondence, news clippings, and Bailey's comments.	
Bailey, E. G., remarks at ASME meetings, 1948-1956	box 8
Bailey, E. G., trip to Europe for Clayton Lecture, 1949	box 8
Scope and Contents	
Includes travel arrangements and address list for ASME members in Europe.	
Engineering Manpower Council, 1951	box 8
Scope and Contents	
Includes publications, newspaper clippings, and correspondence.	
Engineers Joint Council, 1947	box 8
Scope and Contents	
Includes reports and correspondence.	
Newcomen Society, constitution and list of members, 1949	box 8
Power Test Code Committee report	box 8
Professionalism, ASME discussion of paper by C. J. Freund, 1952	box 8

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Posthumous collections of Bailey, 1989-1991

Title/Description	Instances
Instrument Society of America, 1989 Scope and Contents Includes talk and slide presentation honoring Bailey, correspondence with Spencer Bloor and Virginia Kurtz, history of Bailey Meter Company, and samples of bulletins.	box 8
Bailey, E. G., historical marker, program for dedication ceremony, 1991	box 8
Bailey Meter Company advertisements from Sam Dukelow to Mrs. Kurtz	box 8
Bloor's collection, 1989 Scope and Contents Includes Bailey Meter Company sales literature; biographical items; and samples of correspondence, patents, and technical papers.	box 8
Landis, John, items from file about E. G. Bailey	box 8

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