Title: Allis-Chalmers Corporation

**Manuscript Number:** Mss-0774

**Inclusive Dates:** 1847 – 1988

Bulk: 84.5 cubic feet

**Location:** BV, Sh. 189-190, 195-198, 203-206, 211-214, 219-223, 227-231, 235-239,

247-248, 259 WHS, WS2 OS SM "A" OS LG "A" OS XXLG "A"

Abstract: The Allis-Chalmers Company's Milwaukee roots go back to 1860 when Edward P. Allis purchased the Reliance Works and began producing steam engines and other mill equipment. Allis died in 1889, but the company continued to prosper under the direction of his sons Charles and William. By 1900, the firm was one of America's largest steam engine builders. In 1901, the Edward P. Allis Company merged with Fraser & Chalmers (mining and ore milling equipment), the Gates Iron Works (rock and cement milling equipment), and the industrial business line of the Dickson Manufacturing Company (engines and compressors) to form the Allis-Chalmers Company. The company's headquarters was relocated to the newly developed community of West Allis. It was reorganized in 1912 as the Allis-Chalmers Manufacturing Company. The firm's diversified business lines included agricultural equipment, construction equipment, power generation and power transmission equipment, and machinery for use in industrial settings. During World War II, the company was a key contributor to the Manhattan Project that developed the atomic bomb. By the 1980s the company struggled and sold off several of its business lines. Its Milwaukee offices closed in 1999

**Scope and Content:** The collection includes photos, internal and external company publications, product literature, reports, memos, blues, patents, and biographical/historical information regarding the Allis-Chalmers Company and its employees.

**Restrictions on Access:** No restrictions

Language: English

**Arrangement:** The collection is divided into the following 15 series and organized alphabetically within each series:

- 1) <u>Corporate:</u> Contains material from the corporate side of A-C. Contains proceedings from the White Consolidated legal battle the 1960s, as well as material from the WWII era concerning employees. Also contains employment rolls from the Edward P. Allis & Co. Reliance Works, as well as a large section concerning A-C and labor relations.
- 2) <u>Related Companies and Subsidiaries:</u> Contains material from companies within A-C that were wholly owned, as well as companies purchased by A-C, such as Gleaner-Harvester Corp., S. Morgan Smith, Bullock Electrical Manufacturing Co. and Simplicity, to name a few.
- 3) <u>Biographical</u>: Contains biographical material of the presidents of A-C, as well as board members and managers in the 1970s and 1980s.

- 4) <u>Plants:</u> Contains information about individual plants owned and operated by A-C throughout the world.
- 5) <u>Publications:</u> Some loose external and internal publications of A-C. (See bound copies near end of finding aid)
- 6) <u>Publications, Bulletins, Product Literature:</u> Various magazines, catalogs, bulletins, product literature and other publications. These items are all loose on the shelves.
- 7) <u>Divisions:</u> Contains information about divisions within A-C, which were specifically named as divisions on material within the folders.
- 8) Products: The most far reaching of the series, contained is information concerning products produced by A-C, Edward Allis & Co., as well as other subsidiaries of A-C. Included are patents that are not registered with A-C or anyone working for them, but the products of these patents may have been ones used by A-C.
- 9) <u>Projects and Products:</u> Specific information about large dam and nuclear projects on which A-C was the main contractor, as well as continued A-C misc. product information.
- 10) <u>Histories:</u> Compiled histories of Allis-Chalmers Corporation by various scholars. These are working copies of the histories, not the published versions.
- 11) <u>Ledgers, Account Books, Sales Books:</u> Various ledgers and books including payroll ledgers, employment ledgers, sales ledgers, construction books, order books, etc.
- 12) Audio/Visual: Recordings, film and slides on various topics
- 13) Oversize Items: Mostly posters and events sponsored by A-C. Some other various materials included as well.
- 14) Photographic: Photos arranged by subject or topic covering A-C manufacturing history.
- 15) <u>Blueprints</u>: Blueprints of products made by A-C as well as some blueprints of facilities of the company.

## **Administrative Info:**

The collection came directly from the company in the early 1990s. The collection was processed by Steve Daily 1998-1999 and reworked in 2003.

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Flour mill equipment patents, 1890-1891	12	8
Flour mill equipment patents, 1892-1895	12	9
Flour mill equipment patents, 1896-1900	12	10
Hoisting machinery patents, 1893-1900	12	11
Electric motors/generators patents, 1887-1909	12	12
Ore processing equipment patents, 1893-1895	12	13
Ore processing equipment patents, 1897-1902	12	14
Production devices patents, 1871-1902	12	15
Crusher patents, 1895-1902	12	16
Gleaner-Baldwin combine brochure, 1955	13	1
Hartmann Automated Storage & Retrieval systems brochures, n.d.	13	2
Iron processing equipment patents, 1899	13	3
Kiln general improvement patents, 1876-1902	13	4
Misc. patents, 1911-1956	13	5
M. Rumely Co. Advance line machinery catalog, n.d.	13	6
Ship loading equipment patents, 1915-1956	13	7
Siemens-Allis Busway systems brochure, n.d.	13	8
Simplicity Mfg. Co. product literature, n.d.	13	9
Steam boiler furnace patents, Edwin Reynolds, 1879-1891	13	10
Steam engine patents, 1881-1900	13	11
Steam engine components patents, 1876-1900	13	12
Farm Equipment Operating Instructions:	13A	Loose in Box
1. Model 60 All-Crop Harvester		
2. Model 100 Self Propelled All-Crop Harvester		
3. Forage Harvester		
4. Roto-Baler (2copies)		
5. Side Delivery Rake		
6. Single Row Cultivator		
7. Two-Row Corn Harvester (2 copies)		
8. "WD" Coil Shank Field Cultivator		
Series 9: Projects and Products	Box #	Folder #
Technical Drawings/Diagrams – Various Projects, ca. 1910s	13	12A
Stephens-Adamson conveyors catalogs, n.d.	13	13
Stephens-Adamson material handling catalogs, n.d.	13	14
Grand Coulee Dam project(WA), misc., 1973-1978	13	15
Lawrence Dam project(MA)misc., 1979	13	16
Niagara Falls Dam project, misc., n.d.	13	17
Oroville Dam project(CA), misc., 1961-1965	13	18
Wells Dam project(WA), misc., 1961-1968	13	19
wens Dam project way, misc., 1703-1700	13	17

Yacyreta Dam project(Argentina), misc., 1979-1982	13	20
Ravenswood generator(NY), misc., 1971-1979	13	21
Elk River nuclear reactor(MN), misc., 1963	13	22
Ispra nuclear reactor(Italy), misc., n.d.	13	23
La Crosse nuclear reactor(WI), misc., 1962-1969	13	24
Coo-Trois Pont pumped storage presentation(Belgium), 1969	13	25
Cornwall pumped storage project(NY), misc., 1963-1974	13	26
Hiwasee pumped storage project(NC), misc., n.d.	13	27
Raccoon Mountain pumped storage project(TN), misc., 1970-1980	13	28
Taum Sauk pumped storage project(MO), misc., 1963	13	29
Niagra Falls iron ore reduction plant, misc., 1973	13	30
St. Lawrence Seaway project, misc., n.d.	13	31
Miscellaneous Product Booklets	13	32
Fans	13	33
Labyrinth Interstage Seal	13	34
Wind Tunnels	13	35
Trapped Bushing Steel	13	36
New York Subway Engines (NY)	13	37
New Tork Subway Engines (NT)	13	31
Series 10: Histories	Box #	Folder #
1 11 1025 1047	1.4	1
Anniversary booklets 1935, 1947	14	1
History booklets & articles	14	<u>2</u>
"History of A-C by Years"	14	Binder
"Spirit of the Pioneer"	14	Binder
"Historical Notes"	14	Binder
"History by Plant/Division"	14	Binder
"Ninety-Eight Years of Thermal Power"	14	Binder
"History of Allis-Chalmers" Chap. 1-6 Peterson	14	Binder
"History of Allis-Chalmers" Chap. 7-10 Peterson	14	Binder
Alberta Price materials on her work on A-C history	15	1
"Allis-Chalmers and the Mining Industry" 1968	15	2
"From Mill Stones to Atom Smashers" 1847-1870 (A. Price)	15	3
"From Mill Stones to Atom Smashers" 1870-1900(A. Price)	15	4
"Charts the Power Age from Mill" 1901-1941 duplicate	15	5
"Strides for Victory" 1942-1945 (A. Price)	15	6
Allis-Chalmers history by Edward Weber	15	7
"History of Allis-Chalmers" by Walter Peterson	15	8
Publication of Peterson book with MCHS, 1978-79	15	9
·	15	Binder
"Charts the Power Age from Mill" 1901-1941(Peterson)		
"History of Allia Chalmons" by Walton Datonian	1.5	
"History of Allis-Chalmers" by Walter Peterson	15	Binder

Allis & Allen ledger 1847-1850	BV Sh. 231
Corliss Engine schematic book	BV Sh. 223
Edward Allis Co. expense ledger 1863-1868	BV Sh. 223
Edward P. Allis account ledger 1863-1870	BV Sh. 231
Edward P. Allis account ledger 1803-1870  Edward P. Allis employment ledger (Milwaukee Works) 1906-	BV Sh. 223
1910	D V 311. 223
Edward P. Allis employment ledger 1880-1888	BV Sh. 231
Edward P. Allis employment ledger 1899-1902	BV Sh. 223
	BV Sh. 223
Edward P. Allis employment ledger 1903-1906	BV Sh. 223
Edward P. Allis payroll ledger 1889-1901	BV Sh. 223
Edward P. Allis payroll ledger 1895-1905	BV Sh. 223
Foundry construction book	BV Sh. 231
Foundry No. 1 construction book Fraser & Chalmers order book 1873-1876	
	BV Sh. 223
Fraser & Chalmers order book 1887	BV Sh. 223
Fraser & Chalmers order book 1888	BV Sh. 231
Fraser & Chalmers order book 1891	BV Sh. 223
Fraser & Chalmers Sales book 1888-1891	BV Sh. 223
Machinery & equipment inventory binder	BV Sh. 213
Pattern shop construction book	BV Sh. 231
Pumping engines installation/site book 1880-1910	BV Sh. 231
Sales ledger 1888-89	BV Sh. 223
Shop No. 1 construction book	BV Sh. 231
Shop No. 2 construction book	BV Sh. 231
Shop No. 3 construction book	BV Sh. 231
West Allis Plant floor area summary book 1902-1925	BV Sh. 231
Wilkes-Barre, PA plant sales/material book 1883-1888	BV Sh. 213
Edward P. Allis Co. Account Ledger, ca. 1890-1896	BV Sh. 223
Series 12: Audio/Visual Materials	Box #
Film, Sala International, 1978 (16mm color with sound film reel)	19
Recordings, 1948 Corporation: The Promise of Things to Come, 33 1/3,	19
RPM Album Set (2 copies)	17
Recordings, Allis-Chalmers Farm Equipment Division Advertising, 33 1/3	19
RPM Album, 1962 (6 copies)	17
Recordings, Allis-Chalmers Variety Album, 33 1/3 RPM Album Set	19
Recordings, Allis-Chalmers: The Tractor People, 33 1/3 RPM Album	19
Recordings, First Fabulous 50: NBC Radio Network, 33 1/3 RPM Album	19
Recordings, His Finest Hour: Tribute to Sir Winston Churchll, 1954, 33	19
1/3 RPM Album, Sponsored by A-C (2 copies)	1)
Recordings, National Farm & Home Hour Program, 1953, 33 1/3 RPM	19
Album Set	

Recordings, Script/narration for A-C "Accent on Sales" Film		19
Series 13: Oversize Items	I	ocation
Dogtore Dogton Symphony Socion Spongored by Allie Chelmore 1044	W	HC WC2
Posters, Boston Symphony Season, Sponsored by Allis-Chalmers, 1944-1945 (6 posters)	VV	HS, WS2
Posters, Louis Armstrong at Milwaukee Auditorium, Sponsored by Allis Chalmers	W	HS, WS2
Posters, Wooden Flying Pigeon of Archytas, Sponsored by Allis- Chalmers Electronics Division	W	HS, WS2
Posters, "Back the 7 <sup>th</sup> War Loan", ca. 1945 (2 posters)	W	HS, WS2
Booklet of A-C and their support for the War Effort, 1942		S SM "A"
A-C Views, Special Post Prom Edition, May 18,1961		S SM "A"
West Allis Newspaper Clippings 1985		S SM "A"
1944 Christmas message from Admiral E. J King	OS	S SM "A"
"Revelry Roundup" stage production poster circa 1943	OS	S SM "A"
"Longitudinal Section of 1800 RPM Four-Flow Nuclear Turbine",		S LG "A"
Machine Diagram, 12-15-79 Promotional poster for AC power regulators circa 1945	09	S LG "A"
E Flag Star posters (4 in total) 1944-1945		XXLG "A"
E riag Star posters (4 in totar) 1944-1943	03.	AALU A
Series 14: Photographs	Box #	Folder #
Allis-Chalmers Clubhouse	27	Binder
Electrical, Arc welders	20	13
Electrical, Bonneville Plant/Dallas, Oregon EHV Facility	20	9
Electrical, Circuit breakers/regulators	20	4
Electrical, Control boxes/boards	20	5
Electrical, Electronic heaters	20	10
Electrical, Generator/condensers	20	11
Electrical, Metal detectors	20	7
Electrical, Misc. electrical products	20	14
Electrical, Motors/converters	20	12
Electrical, Rectifiers	20	3
Electrical, Switchboards/switchgear	20	6
Electrical, Switches	20	8
Electrical, Transformers	20	1
Electrical, Transformers	20	2
Engines, Blowing engines	21	24
Engines, Combustion engines	21	24A
Engines, Engines-Buda	21	25
Engines, Engines-gas	21	20
Engines, Engines-Harvey	21	22

Engines, Engines-oil	21	23
Engines, Engines-steam	21	21
Engines, Horizontal pumping engines	21	17
Engines, Vertical pumping engines	21	18
Engines, Vertical pumping engines	21	19
Greater Milwaukee Open Golf Tournament, 1973	27	15
Greater Milwaukee Open Golf Tournament, 1977	27	16
Greater Milwaukee Open Golf Tournament, 1978	27	17
Greater Milwaukee Open Golf Tournament, 1978	27	18
Greater Milwaukee Open Golf Tournament, 1978	27	19
Greater Milwaukee Open Golf Tournament, 1979	27	20
Greater Milwaukee Open Golf Tournament, 1979	27	21
Greater Milwaukee Open Golf Tournament, 1980	27	22
Greater Milwaukee Open Golf Tournament, 1981	27	23
Greater Milwaukee Open Golf Tournament, 1981	27	24
Greater Milwaukee Open Golf Tournament, 1981	27	25
Greater Milwaukee Open Golf Tournament, undated	27	26
Loading & Lift Equipment, Dredges	22	18
Loading & Lift Equipment, Electric hoists	22	23
Loading & Lift Equipment, Front-end loaders & backhoes	22	21
Loading & Lift Equipment, Hartman material handling system	22	26
Loading & Lift Equipment, Lift truck slide show	22	19
Loading & Lift Equipment, Lift trucks	22	20
Loading & Lift Equipment, Service elevators	22	25
Loading & Lift Equipment, Side lift tractors	22	17
Loading & Lift Equipment, Side loaders	22	22
Loading & Lift Equipment, Steam hoists	22	24
Military Products, Aircraft superchargers	22	32
Military Products, Ejection seat/tower	22	29
Military Products, Jet engines	22	35
Military Products, Manhattan Project – Oak Ridge Atomic	22	27
Military Products, Marine drive propulsion & generating units	22	33
Military Products, Military crawler vehicles	22	30
Military Products, Misc. military products	22	36
Military Products, Ontos vehicle	22	34
Military Products, Snow buggy	22	28
Military Products, Submarine Pompano drive unit	22	31
Milling, Flaking mills	21	11
Milling, Misc. grain mill equipment	21	13
Milling, Paper mill equipment	21	15
Milling, Purifiers	21	10
Milling, Roller Mills	21	9
Milling, Saw mill equipment	21	14
Milling, Sifters/separators	21	12
Milling, Steel mill equipment	21	16

Mining & Refining/Chemical, Car shakers   20   23   25   25   25   26   27   27   28   27   28   28   28   29   29   29   29   29			
Mining & Refining/Chemical, Carbonization equipment         20         25           Mining & Refining/Chemical, Consciruting equipment         20         21           Mining & Refining/Chemical, Converters         20         15           Mining & Refining/Chemical, Crushers         20         16           Mining & Refining/Chemical, Crushers         20         17           Mining & Refining/Chemical, Feeders         20         17           Mining & Refining/Chemical, Grinding mill equipment         20         22           Mining & Refining/Chemical, Kilns/coolers/dryers         20         22           Mining & Refining/Chemical, Misc. mining equipment         20         22           Mining & Refining/Chemical, Misc. mining equipment         20         28           Mining & Refining/Chemical, Misc. mining equipment         20         28           Mining & Refining/Chemical, Refining/Chemical equipment         20         28           Mining & Refining/Chemical, Refining/Chemical equipment         20         26           Misc. Products & Methods, Beatron         23         1           Misc. Products & Methods, Beatron         23         2           Misc. Products & Methods, Construction equipment misc.         23         3           Misc. Products & Methods, Construction equipment misc.         <	Mining & Refining/Chemical, Car shakers	20	23
Mining & Refining/Chemical, Concentrating equipment         20         21           Mining & Refining/Chemical, Concentrating equipment         20         15           Mining & Refining/Chemical, Corushers         20         15           Mining & Refining/Chemical, Crushers         20         16           Mining & Refining/Chemical, Crushers         20         17           Mining & Refining/Chemical, Feeders         20         24           Mining & Refining/Chemical, Grinding mill equipment         20         22           Mining & Refining/Chemical, Misc. mining equipment         20         20           Mining & Refining/Chemical, Misc. mining equipment         20         27           Mining & Refining/Chemical, Misc. mining equipment         20         28           Mining & Refining/Chemical, Misc. mining equipment         20         28           Mining & Refining/Chemical, Pellet plants         20         28		20	25
Mining & Refining/Chemical, Concentrating equipment         20         19           Mining & Refining/Chemical, Converters         20         15           Mining & Refining/Chemical, Crushers         20         16           Mining & Refining/Chemical, Crushers         20         17           Mining & Refining/Chemical, Grinding mill equipment         20         24           Mining & Refining/Chemical, Kilns/coolers/dryers         20         22           Mining & Refining/Chemical, Misc. mining equipment         20         27           Mining & Refining/Chemical, Misc. mining equipment         20         28           Mining & Refining/Chemical, Pellet plants         20         18           Mining & Refining/Chemical, Refining/Chemical equipment         20         28           Mining & Refining/Chemical, Refining/Chemical equipment         20         28           Misc. Products & Methods, Beach sanitizer         23         1           Misc. Products & Methods, Betatron         23         3         1           Misc. Products & Methods, Cape Kennedy equipment         23         4           Misc. Products & Methods, Construction graders/Snow Removal         23         5           Misc. Products & Methods, Diagrams/advertisements/graphics         23         7           Misc. Products & Methods,		20	21
Mining & Refining/Chemical, Crushers       20       15         Mining & Refining/Chemical, Crushers       20       17         Mining & Refining/Chemical, Feeders       20       24         Mining & Refining/Chemical, Grinding mill equipment       20       22         Mining & Refining/Chemical, Kilns/coolers/dryers       20       20         Mining & Refining/Chemical, Misc. mining equipment       20       27         Mining & Refining/Chemical, Misc. mining equipment       20       28         Mining & Refining/Chemical, Pellet plants       20       18         Mining & Refining/Chemical, Pellet plants       20       18         Mining & Refining/Chemical, Refining/Chemical equipment       20       26         Misc. Products & Methods, Beach sanitizer       23       1         Misc. Products & Methods, Beathron       23       1         Misc. Products & Methods, Cape Kennedy equipment       23       3         Misc. Products & Methods, Condenser equipment misc.       23       3         Misc. Products & Methods, Construction equipment misc.       23       7         Misc. Products & Methods, Diagrams/advertisements/graphics       23       35         Misc. Products & Methods, Diagrams/advertisements/graphics       23       35         Misc. Products & Methods,		20	19
Mining & Refining/Chemical, Crushers       20       16         Mining & Refining/Chemical, Crushers       20       17         Mining & Refining/Chemical, Feeders       20       24         Mining & Refining/Chemical, Feeders       20       24         Mining & Refining/Chemical, Kilns/coolers/dryers       20       20         Mining & Refining/Chemical, Misc. mining equipment       20       27         Mining & Refining/Chemical, Misc. mining equipment       20       28         Mining & Refining/Chemical, Pellet plants       20       18         Mining & Refining/Chemical, Refining/Chemical equipment       20       26         Misc. Products & Methods, Automotive products       23       1         Misc. Products & Methods, Beataron       23       3         Misc. Products & Methods, Cape Kennedy equipment       23       3         Misc. Products & Methods, Construction equipment       23       4         Misc. Products & Methods, Construction graders/Snow Removal       23       5         Misc. Products & Methods, Dilignams/advertisements/graphics       23       3         Misc. Products & Methods, Dilignams/advertisements/graphics       23       3         Misc. Products & Methods, Forestry equipment       23       8         Misc. Products & Methods, Furaser-		20	15
Mining & Refining/Chemical, Feeders         20         24           Mining & Refining/Chemical, Grinding mill equipment         20         22           Mining & Refining/Chemical, Kilns/coolers/dryers         20         20           Mining & Refining/Chemical, Misc. mining equipment         20         27           Mining & Refining/Chemical, Misc. mining equipment         20         28           Mining & Refining/Chemical, Pellet plants         20         18           Mining & Refining/Chemical, Refining/Chemical equipment         20         28           Misc. Products & Methods, Automotive products         23         1           Misc. Products & Methods, Beach sanitizer         23         2           Misc. Products & Methods, Cape Kennedy equipment         23         3           Misc. Products & Methods, Construction equipment misc.         23         5           Misc. Products & Methods, Diagrams/advertisements/graphics         23         5           Misc. Products & Methods, Diagrams/advertisements/graphics         23         3 <t< td=""><td></td><td>20</td><td>16</td></t<>		20	16
Mining & Refining/Chemical, Feeders         20         24           Mining & Refining/Chemical, Grinding mill equipment         20         22           Mining & Refining/Chemical, Kilns/coolers/dryers         20         20           Mining & Refining/Chemical, Misc. mining equipment         20         27           Mining & Refining/Chemical, Misc. mining equipment         20         28           Mining & Refining/Chemical, Pellet plants         20         18           Mining & Refining/Chemical, Refining/Chemical equipment         20         28           Misc. Products & Methods, Automotive products         23         1           Misc. Products & Methods, Beach sanitizer         23         2           Misc. Products & Methods, Cape Kennedy equipment         23         3           Misc. Products & Methods, Construction equipment misc.         23         5           Misc. Products & Methods, Diagrams/advertisements/graphics         23         5           Misc. Products & Methods, Diagrams/advertisements/graphics         23         3 <t< td=""><td>Mining &amp; Refining/Chemical, Crushers</td><td>20</td><td>17</td></t<>	Mining & Refining/Chemical, Crushers	20	17
Mining & Refining/Chemical, Grinding mill equipment         20         22           Mining & Refining/Chemical, Kilns/coolers/dryers         20         20           Mining & Refining/Chemical, Misc. mining equipment         20         27           Mining & Refining/Chemical, Misc. mining equipment         20         28           Mining & Refining/Chemical, Pellet plants         20         18           Mining & Refining/Chemical, Refining/Chemical equipment         20         26           Misc. Products & Methods, Automotive products         23         1           Misc. Products & Methods, Beach sanitizer         23         2           Misc. Products & Methods, Cape Kennedy equipment         23         3           Misc. Products & Methods, Condenser equipment         23         4           Misc. Products & Methods, Construction equipment misc.         23         5           Misc. Products & Methods, Construction equipment misc.         23         6           Misc. Products & Methods, Diagrams/advertisements/graphics         23         3           Misc. Products & Methods, Experimental/test products         23         3           Misc. Products & Methods, Forestry equipment         23         3           Misc. Products & Methods, Fraser-Chalmers products         23         10           Misc. Products		20	24
Mining & Refining/Chemical, Kilns/coolers/dryers       20       20         Mining & Refining/Chemical, Misc. mining equipment       20       27         Mining & Refining/Chemical, Misc. mining equipment       20       28         Mining & Refining/Chemical, Misc. mining equipment       20       18         Mining & Refining/Chemical, Refining/Chemical equipment       20       26         Misc. Products & Methods, Automotive products       23       1         Misc. Products & Methods, Beach sanitizer       23       2         Misc. Products & Methods, Beach sanitizer       23       3         Misc. Products & Methods, Cape Kennedy equipment       23       3         Misc. Products & Methods, Construction equipment misc.       23       3         Misc. Products & Methods, Construction equipment misc.       23       7         Misc. Products & Methods, Diagrams/advertisements/graphics       23       3         Misc. Products & Methods, Diagrams/advertisements/graphics       23       35         Misc. Products & Methods, Fraser-Chalmers products       23       32         Misc. Products & Methods, Forestry equipment       23       3         Misc. Products & Methods, Fraser-Chalmers products       23       10         Misc. Products & Methods, Fraser-Chalmers products       23       12		20	22
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Mining & Refining/Chemical, Misc. mining equipment       20       28         Mining & Refining/Chemical, Pellet plants       20       18         Mining & Refining/Chemical, Refining/Chemical equipment       20       26         Misc. Products & Methods, Automotive products       23       1         Misc. Products & Methods, Beach sanitizer       23       2         Misc. Products & Methods, Betatron       23       3         Misc. Products & Methods, Cape Kennedy equipment       23       4         Misc. Products & Methods, Construction equipment misc.       23       5         Misc. Products & Methods, Construction graders/Snow Removal       23       6         Misc. Products & Methods, Diagrams/advertisements/graphics       23       35         Misc. Products & Methods, Diagrams/advertisements/graphics       23       32         Misc. Products & Methods, Experimental/test products       23       32         Misc. Products & Methods, Forestry equipment       23       32         Misc. Products & Methods, Forestry equipment       23       32         Misc. Products & Methods, Fraser-Chalmers products       23       10         Misc. Products & Methods, Furaces       23       11         Misc. Products & Methods, Hyperbaric chamber       23       13         Misc		20	27
Mining & Refining/Chemical, Pellet plants2018Mining & Refining/Chemical, Refining/Chemical equipment2026Misc. Products & Methods, Automotive products231Misc. Products & Methods, Beach sanitizer232Misc. Products & Methods, Beataron233Misc. Products & Methods, Cape Kennedy equipment234Misc. Products & Methods, Condenser equipment235Misc. Products & Methods, Construction equipment misc.237Misc. Products & Methods, Construction graders/Snow Removal236Misc. Products & Methods, Diagrams/advertisements/graphics2335Misc. Products & Methods, Drilling equipment238Misc. Products & Methods, Experimental/test products2332Misc. Products & Methods, Forestry equipment239Misc. Products & Methods, Fraser-Chalmers products2310Misc. Products & Methods, Fruel cell technology2311Misc. Products & Methods, Hunces2312Misc. Products & Methods, Misc. marine products2313Misc. Products & Methods, Misc. marine products2315Misc. Products & Methods, Outdoor & leisure products2316Misc. Products & Methods, Pressing machines2316Misc. Products & Methods, Prostip products installed/on-site2318Misc. Products & Methods, Railway equipment2320Misc. Products & Methods, Rocket parts2321Misc. Products & Methods, Shipping metho		20	28
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Slides, Early products (historical)	Loose	Binder: S13
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Slides, General slides of flags, USA, maps, events, papers, etc.	Loose	Binder: S4
Slides, Graphics for meetings, etc.	Loose	Binder: S15
Slides, Locations(some historic), people, etc.	Loose	Binder: S12
Slides, Milwaukee views (color)	Loose	Binder: S5

Slides, Misc. views from around the world	Loose	Binder: S18
Slides, Nuclear products	Loose	Binder: S1
Slides, Misc. production facilities, worldwide	Loose	Binder S 18a
Slides, People, products, etc.	Loose	Binder: S6
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1 Upper Drop Lever, New Patterns. 1 Lower Drop Lever, New	11/28/18	84	03	032-018
Patterns. Complete with on joins. 1 Set thus for Milwaukee				
West Side Pumping Engine	07/20/10	0.4	02	022.066
1.5 Million Pumping Engine. Plunger & Piston Rods. St. Paul Water Works	07/29/18	84	03	032-066
10" x48" Cylinder. 10" & 24" x48" 1890 Tandem Comp.	01/30/19	03	02	303-007
Engine. Dow Chemical Co.				
12,000 H.P Improved Barometric Condenser Details.	04/08/19	03	02	305-013
Cincinnati Gas & Electric Co.				
20" x42"Air Cylinder.14" & 28", 20" & 20" x42" Air	03/16/19	03	02	305-030
Compressor. Atlas Portland Cement Co.				
20'-0" Fly Wheel. 26" & 48"x48" Vertical Comp. Engine.	04/09/18	95	03	186-045
People Traction Co.				
24" Cylinder. 24" & 48" Vertical Steeple Comp. Engine. GEO.	03/23/19	03	02	305-029
M. Moulton & Co.				
28" x24' Air Cylinder for Improved Barometric Condenser.	04/17/19	03	02	305-028
Cincinnati Gas & Electric.				
3 Cyl. Comp. Pumping Engines for Allegheny City Water	12/20/18	83	03	032-029
Works Air Pumps				
3 Cylinder Comp. Pumping Engines for Allegheny-City Water	01/22/18	84	03	032-036
Works				
30" x48" Valve Gear. 30" & 60" x48" Cross Comp. Engine.	03/25/19	03	02	305-043
The South West Missouri Elec. Ry. Co.				
32" Valve Gear. 110 cu. ft. Centrifugal Pump. 16 & 32"x30"	06/26/19	06	01	411-061
Sewage Pump Station				
32" x60" Cylinder. St. Louis & Suburban Railway Co.	03/14/19	03	01	305-007
32"x60" Valve Gear. St. Louis & Suburban Ry. Co.	03/14/19	03	01	305-010
34' x60" Air Cylinder. Oliver Iron Mining Co.	03/19/19	03	02	305-018
34" Valve Gear and Details. 18" & 34"x48" Tandem	03/09/18	95	03	186-010
Compound Engine. F.W. Stock Hillside, Mich.				
34.5" Air Cylinder Heads for (22" & 40"/ 22.25" & 34.5") x48"	09/26/18	96	01	204-010
Comp. Air Compressor. Simmer & Jack East Limited. C.A.				
Williams & Co. AGTS				
36"x16" Independent Air Pump & Condenser and Two 42"	03/03/18	84	03	032-060
Heaters				
400 Ton Hydraulic Press. First Used for 32" & 64" x60"	03/19/19	03	02	305-032
Vertical Cross Compound Engine. Union Electric Light &				
Power Co.				
60" L.P 30" & 60" x 48" HOR. Cross Compression Engine.	03/16/19	03	01	305-011
The South West Missouri Elect. Ry. Co.				

60" x48" Valve Gear. 30" & 60" x48" Cross Compound	03/31/1903	02	305-058
Engine. The South West Missouri Electric Ry. Co.	00/40/4004	0.2	000 065
Air Chamber and Vacuum Chamber. St. Paul 1.5 Million	08/13/1884	03	032-065
Engine	00/14/1004	0.2	022.062
Air Chamber. St. Paul Pumping Engines	08/14/1884	03	032-063
Air Cylinder and Heads for 14" & 14.5"x 36" Air Compressor.	04/18/1895	03	186-060
Girder Engine for Standard Mining Co.		0.1	
Air cylinder heads vertical blowing engine, Carnegie Steel Co.	4/10/1903	01	305-095
Air Pump & Condenser. Tamarack Pumping Engines	09/16/1886	03	032-177
Air Pump 20" x42". 15 Million Gallon Pumping Engine. 24"-46"-68" & 29.5 x 42"	04/10/1903	02	303-012
Air Pumps & Condenser for 1.5 Million Pumping Engine of St.	07/21/1884	03	032-067
Paul Water Works			
Air Valve Gear. 34" x60" Air Cylinders. Liver Iron Mining Co.	03/19/1903	02	305-023
Air Valve Gear. 42" & 84" x60" Vertical Blowing Engine.	03/23/1903	02	305-051
National Steel Co. Bellaire			
Air Valve Gear. 96" x60" Air Cylinders. National Steel Co.	02/10/1903	02	303-009
Rosina Furnace.			
Arrangements of H.P. Valve Gear. St. Louis 15 Million Gallon	01/20/1897	01	207-058
Pumping Engine.			
Back Bearing tandem comp. engine, Carnegie Steel Co.,	4/29/1903	01	305-093
Homestead Works, Pittsburgh, PA			
Balance Weights & Plunger for Allegheny City Water Works	10/20/1883	03	032-030
Bed Plate. 40" & 78" x 60" Vertical Cross Engine. Louisville	04/07/1903	02	305-079
Railway Co.			
Bed Plate. 48" & 78" x60" Horizontal-Vertical Comp. Rolling	3/27/1903	02	305-049B
Mill Engine. Carnegie Steel Co.			
Bed Plate. 84" & 84" x60" Vertical Blowing Engine. Carnegie	04/08/1903	02	305-088
Steel Co.			
C.I. Bottom of Engine Pit for 585 cu. ft. Screw Pump.	01/25/1906	01	401-060
Lawrence Avenue Station.			
Carrier Arms, Eccentric & Rods for (22" & 40"/ 22.25" &	10/20/1896	01	204-032
34.5) x48" Comp. Air Compressor. C.A. Williams & Co.			
Johannesburg, S.A.R.			
Changes Necessary to Have Double Plated Valve Gear for 24"	03/09/1903	02	305-025
x48" Girder Engine. Lammert & Mann			
Clearances. Omaha 4 Million Gallon Pumping Engine	12/02/1886	03	032-200
Condenser for West Side Water Works (More Detail)	06/24/1884	03	032-019A
Counterweight on Flywheel for 26" & 52" x48" Horizontal	01/27/1903	02	303-014
Cross Comp. D.C. Engine. Commercial Light & Power			
Crosshead for 42" & 66" x60" Horizontal Tand. Comp. Rolling	05/26/1903	02	305-071
Mill Engine. Carnegie Steel Co.			
Crosshead. 46" & 86", 84" & 84", x60" Vertical Blowing	03/31/1903	02	305-067
Engine. Illinois Steel Co.			
Crosshead. 48" & 78" x60" Horizontal-Vertical Rolling Mill	03/23/1903	02	305-020
8		1	1

Engine. Carnegie Steel Co.			
Cut-Off Arrangement. 15 Million Gallon Pumping Engine.	10/19/1898	01	231-061
Franklin Mining Co.	10/19/1090	01	231 001
Details of Condenser for West Side Water Works (Fewer	06/26/1884	03	032-019B
Details)	00/20/1001	0.5	032 0132
Details of Condenser. North-West Side Pumping Station	11/18/1886	03	032-190
(6,000,000 Gallons)	11/10/1000	0.5	032 190
Details of Gallery Number 2. 585 cu. ft. Screw Pump 18"-32"	01/26/1906	01	399-060
& 48" x 42' Vertical Trip. Exp. Lawrence Ave. Station.	01. 20. 13 00	0.1	
Details of Pumping Engine for Omaha-City	01/21/1884	03	032-040
Details of pumps 20 million gallon triple pumping engine, New	6/26/1907	01	381-060
Orleans Sewerage & Water Board	0/20/1907	01	201 000
Discharge Pipe.3 Cylinder Compound Pumping Engines,	09/07/1883	03	032-034
Allegheny City Water Works.	09/07/1003	0.5	032 031
Distance Piece. 24" & 48" x48" Vertical Steeple Comp.	04/29/1904	02	305-037
Engine. GEO. M. Moulton & Co.	01/25/1501	02	303 037
Double-Pump Air Chamber for Portage Straw-Board Comp.	10/20/1884	03	032-056
Eccentrics Carriers & Rods. 24" & 48"x48" Cross Compound	04/09/1895	03	186-044
Engine. Detroit Ry. Co.	04/07/1073	03	100-044
Engine Room Floor for Pittsburg 12 Million Gallon Pumping	09/21/1897	01	212-061
Engine #110.	0)/21/10)/	01	212-001
Feed Water Heater. North-West Side Pumping Engine	03/12/1887	03	032-221
(6,000,000 Gal.)	03/12/100/	03	032-221
Feed Water System and Blow Off Pipes. 24" & 46"x48" Cross	03/07/1895	03	186-006
Compound Engines. North Chicago Street Ry. Co. Chicago, IL	03/07/1073	03	100-000
Floor gallery 15 million gallon pumping engine Pittsburgh, PA	6/26/1903	01	305-060
For Repairs and Changes for C.B. Co. See 275-60. Valve Gear,	09/13/1896	01	204-003
Carriers, and Rods. 18"x42" Corlise Engine. Kaukauna Fiber	07/13/1070	01	204-003
Co.			
Forgings for West Side Pumping Engine	12/09/1886	03	032-194
Foundation for 20" & 40" x60" Horizontal Cross Comp.	09/27/1904	02	309-016
Engine. Lee Paper Co.	0 <i>)</i> /2//1/0 <del>1</del>	02	307-010
Foundation Plate. 20" x42" Girder Engine. Milwaukee Chair	03/11/1903	02	305-031
Co.	03/11/1703	02	303-031
Foundation. 12 Million Gallon Pumping Engine. Hackensack	07/12/1898	01	206-058
Water Co.	07/12/1090	01	200-038
Foundation. 16" & 32" x42" Cross Comp. Engine. Gia. Minera-	10/07/1904	02	309-019
Las-Dos-Estrellas-Mexico, Mexico	10/07/1904	02	309-019
Foundation. 16" & 32" x42" H.D. Tandem Compound Engine.	09/24/1904	02	309-018
MacDonald Engineering Co.	07/4 <del>4</del> /17 <b>04</b>	02	309-010
Foundation. 18" & 36" x 42" Cross Comp. Engine. Lee Paper	09/27/1904	02	309-017
	07/4//170 <del>4</del>	02	303-01/
Co.  Eromo for 14" & 26" v 26" Tondom Compressor Engine for	04/25/1895	03	186-064
Frame for 14" & 26"x36" Tandem Compressor Engine for Orleans R.R. Co.	U4/43/1093	03	100-004
Frame. 32 cu. ft. Centrifugal Pump Engine. 9"-16" & 24"x24".	ND	01	21/ 061
rtame. 32 cu. ii. Cenunugai rump engine. 9"-10" & 24"X24".	שא	01	314-061

Washington Sewerage, Class II.			
Gallery for Omaha Pumping Engine.	03/28/1887	03	032-226
Gallery No. 1. 46" & 86" x 60" Vertical Blow Engine.	02/14/1903	02	303-004
American Steel & Wire Co.	02/14/1703	02	303 004
Gallery No. 2 for Engine No. 1 vertical blowing engine,	4/24/1903	01	305-091
Woodward Iron Co.	H/2H/1703	01	303-071
Gallery No.2 vertical steeple comp. engine Geo. Moulton &	5/9/1903	01	305-098
Co., Chicago	3/ // 1703	01	303-076
General Arrangement of Machinery. 12,000 H.P Improved	04/30/03	02	305-075
Barometric Condenser. Cincinnati Gas & Electric Co.	07/30/03	02	303-073
General Arrangement. 24" & 48" x48" Vertical Steeple Comp.	03/23/1903	02	305-042
Engine. GEO M. Moulton & Co.	03/23/1903	02	303-042
ŭ	03/23/1901	02	305-021
General Arrangement. 34' x60' Air Cylinder. Oliver Iron	03/23/1901	02	303-021
Mining Co.  General Drawing of Throttles, S. S. Valvas, & Cross Shofts, 42"	03/05/1903	02	305-002
General Drawing of Throttles, S.S Valves & Cross Shafts. 43"	03/03/1903	02	303-002
& 86" x60" Horizontal & Vertical Double Compound Engine.			
Southern Electric Light & Power Company.	02/22/1002	0.1	206.061
General Drawing. 20 Million Gallon Pumping Engine. 40"-70"	03/23/1903	01	306-061
104"/ 32.25"x66".	02/00/1005	0.2	106.000
H.P Bed Plate. 26" & 48"x48" Vertical Engine. Peoples	03/09/1895	03	186-009
Traction Co.		0.1	
H.P. Air Cylinder. (22" & 40"/ 22.25 & 34.5") x48" Air	10/06/1896	01	204-022
Compressor. Simmer & Jack, East Limited C.A. Williams &			
Co. AGTS.			
H.P. Air Valve Gear for (22 & 40 Steam/ 22.25 & 34.5 Air)	10/23/1896	01	204-036
x48" Air Compressor. Simmer & Jack East Limited			
H.P. Cylinder. 48" & 78" x60" Horizontal-Vertical Comp.	04/10/1903	02	305-076
Rolling Mill Engine. Carnegie Steel Co.			
H.P. Steam Cylinder for (22"& 40", Steam/ 22.25" & 34.5"	09/29/1896	01	204-017
Air) X48" Air Compressor. Simmer & Jack East Limited. C.A.			
Williams & Co. AGTS.			
H.P. Valve Gear. 24" & 48" x48" Vertical Steeple Comp.	05/09/1903	02	305-046
Engine. GEO. M. Moulton & Co.			
H.P. Valve Gear. 48" & 78" x60" Hor. Vert. Comp. Rolling	04/13/1903	02	305-082
Mill Engine. Carnegie Steel Co.			
I.P Cylinder. 15 Million Gallon Pumping Engine. 24"-46"-68"	04/08/1903	02	305-017
x42" Stroke.	<del></del>		·
Index Sheet. 8 Million Gallon Pumping. Milwaukee, WI	ND	02	371-060
Intermediate Steam Valve. West Side Engine (6,000,000 Gal.)	01/06/1887	03	032-209
Iron Pressure Steam & Exhaust Valves. Tamarack Pumping	10/08/1886	03	032-175
Engine Exhaust varves. Famarack Fumping	10/00/1000		052 175
Jacket, Oil, & Drawn Piping. 15 Million Gallon Pumping	04/25/1906	02	383-060
Engine 1905. 50"-96" & 36" x 64" Vertical Cross Comp.	UT/23/1700	02	303-000
Bureau of Filtration			
	04/08/1903	02	305.060
L.P. Cylinder 21" & 48" x48" Hor. C.C. Engine. Tremont &	04/08/1903	UZ	305-069

Suffolk Mills.			
L.P. Cylinder. 10" & 24" x48" 1890 Tandem Comp. Engine.	02/02/1903	02	303-010
Dow Chemical Co.			
L.P. Cylinder. 14" & 28" x42" Hor. Cross Comp. Engine.	04/18/1903	02	305-087
Lenoir Cotton Mills			
L.P. Cylinder. 15 Million Gallon Pump Engine 24"-46"-68"-	04/08/1903	02	305-024
29.5" x42"			
L.P. Cylinder. 16" & 28" x36" 1890 Com. Engine.	04/01/1903	02	305-061
Albuquerque Gas & Elect. L.P. Co.			
L.P. Cylinder. 26" & 58" x60" Cross Compound Engine.	04/022/1903	02	305-078
Washburn-Crosby Co.			
L.P. Steam Valve for West Side Pumping Engine	01/10/1887	03	032-210
L.P. valve gear cross compound engine Washburn-Crosby Co.,	5/1/1903	01	305-092
Minn., MN			
L.P. Valve Gear. 30" & 50" x60" Horiz. Cross Comp. Engine.	03/11/1903	02	305-003
St. Loius & Suburban Ry. Co.			
L.P. Valve Gear. 48" & 78" x60" Horizontal & Vertical Comp.	04/20/1903	02	305-065
Engine. Carnegie Steel Co.			
Lengths of Piston & Pump Rods. Tamarack Pumping Engine	10/11/1886	03	032-179
Location of Pads on H.P. & I.P Frames. 20 Million Gallon	03/27/1901	01	259-061
Pumping Engine			
Lower Gallery 22" & 36" x42" Vertical Cross Comp. Engine.	05/01/1903	02	305-049A
The W.S. Tyler Co.			
Main Lever and Cross-Head. Pumping Engine for Portage	02/11/1884	03	032-053
Straw-Board Works			
Oil Guard for 28" & 52"x48" Tandem Compound Engine.	04/06/1895	03	186-042
Citizens Railway Co.			
Oil Thrower and Hood for 36" & 72"x48" Vertical Engine for	04/08/1895	03	186-043
the Metropolitan W.S Elev. Ry. Co.			
Oiling Devices. 22" & 36" x42" Vertical Cross Comp. Engine.	04/23/1903	02	305-044
W.S. Tyler & Co.			
Oiling Galleries for 1 Engine Cleveland 20 Million Gallon	04/12/1897	01	208-061
Pumping Engine.			
Omaha Pumping Engine. Drain Pump for Steam Jacket	02/05/1884	03	032-039
Pillow Block Plates for St. Louis 15 Million Gallon Pumping	11/23/1896	01	204-061
Engine #9 & 10.			
Piping Details. 12,000 H.P. Improved Barometric Condenser.	04/27/1903	02	305-034
Cincinnati Gas & Electric Co.			
Plan of Exhaust Pipe. Portage Straw-Board Comp.	12/17/1884	03	032-059
Plan of Steam Pipe. Portage Straw-Board Comp.	12/11/1884	03	032-058
Platform, Railing & Oil Catcher for 36"x60" Twin Engine for	04/16/1895	03	186-059
Union Depot R.R. Co.	3 1 3/ 1 0 / <b>3</b>		
Plunders. Omaha 4 Million Gallon Pumping Engine	12/01/1886	03	032-193
Proposed Arrangement. 26" & 48"x48" Vertical Compound	04/03/1895	03	186-039
Engine for Peoples Traction Co.	0 1. 00/ 10/0	0.5	
Engine for reopted fluction co.			1

Proposed Change in Rope Drive for 22" & 42"x48" Cross Compression Engine for Hartman General Electric Co. Duluth,	04/16/1895	03	186-058
MN	) ID	0.2	205.050
Proposed Foundation. 26" & 58" x60" Horizontal Cross Comp. Engine. Washburn-Crosby Co.	ND	02	305-059
Proposed General Arrangement 28" & 52"x48" Tandem	03/02/1895	03	186-002
Compound. Reynolds Corliss Engine and Siemens & Halske	00, 02, 10,0		100 002
Dynamo for Citizens Ry. Co.			
Pump- Location of Pads. 15 Million Gallon Pump Engine for	05/14/1902	01	285-061
Union Steel Co.			
Pumping Engine for Portage Straw-Board Comp.	04/18/1884	03	032-054
Regulator 1890 cross comp. engine, Albuquerque Gas, Electric	4/15/1903	01	305-097
Light, and Power Co.			
Regulator 30"x50"x60 – 1890 Cross Comp. Eng. St. Louis	03/31/1903	02	305-041
Suburban Ry. Co.			
Regulator and Bracket. Tamarack Pumping Engine	10/11/1886	03	032-178
Regulator and Safety Stop. 16" & 32"x42" Tandem Comp.	03/25/1903	01	305-004
Engine D.C. American Locomotive Co.			
Regulator Cross Shaft and Connections. 43" & 86" x60"	03/05/1903	02	305-012
Horizontal and Vertical Double Compound Engine. Southern			
Elec. Light & Power Co.			
Regulator for 24" & 36"x48" Cross Compound Engine. Denver	10/12/1896	01	204-028
Consolidated Electric Co.			
Regulator. 16" & 30" x42" Cross Comp. Engine. Hunter	02/27/1903	02	305-001
Milling Co.			
Regulator. 18" & 34" x48" Cross Comp. Engine. Sheffield	09/28/1896	01	204-013
Milling Co.			
Regulator. 18" & 36" x42" Cross Compound Engine. Penn-	04/01/1903	02	305-068
Allen Portland Cement Co.			
Regulator. 20" & 40" Cross Comp. Engine. Penn-Allen	03/28/1903	02	305-064
Portland Cement Co.			
Regulator. 30" & 60" x48" Horizontal C.C. Engine. The	04/07/1903	02	305-073
Southwest Missouri Elect. Ry. Co.			
Regulator. 30" x72" 1890 Frame Engine. Lincoln Cotton Mills.	03/20/1903	02	305-038
Regulator. 43" & 86" x60" Horizontal and Vertical Double	02/06/1903	02	303-016
Comp. Engine. Southern Electric Light & Power Co.			
Regulators & Safety Stop Valve for 28" & 52"x48" Tandem	04/11/1895	03	186-049
Compound Engine for Citizens Street Ry. Co.			
Safety Stop Regulator. 30" x72" 1890 Frame Engine. The	03/20/1903	02	305-040
Lincoln Cotton Mills Co.			
Safety Stop Valve for 24" & 44"x48" Cross Compound Engine.	09/18/1896	01	204-001
Simmer & Jack Mines			
Safety Stop. 30" & 50" x60" 1890 Cross Compound Engine. St.	03/31/1903	02	305-054
Louis & Suburban Ry. Co.			
Shaft for 36"x60" Engines for the Union Depot R.R. Co.	04/10/1895	03	186-047

Slides. 44" & 84" x60" Vertical Blowing Engine With Central Air Inlet Valves for Carnegie Steel Co.	04/08/1903	02	305-086
Slides. 84" & 84" x60" Vertical Blowing Engine. Carnegie Steel Co.	04/08/1903	02	305-085
Spring Gear for Regulator. West Side Pumping Engine	11/12/1884	03	032-017
St. Paul 1.5 Million Pump & Engine	07/29/1884	03	032-068
Stairway between #1 & #2 galleries vertical steeple comp. engine Geo. Moulton & Co., Chicago	5/9/1903	01	305-094
Stand for High Pressure Wrist Plate. Milwaukee Sewerage Engine	01/05/1886	03	032-208
Steam & Exhaust Valves. Tamarack Pumping Engines	10/08/1886	03	032-176
Steam and Exhaust Piping for the Original Mine, W.A. Clark. Butte, Montana	09/24/1896	01	204-009
Steel Lagging. 3 Million Gallon Pumping Engine. 24"-44" x30" Stroke.	06/06/1905	02	377-060
Strainer for Suction Water. Omaha Pumping Engine	01/25/1884	03	032-037
Suction & Discharge Pipe. West Side Pumping Engine (6 Million)	03/07/1887	03	032-220
Suction and Discharge Piping for St. Louis 15 Million Gallon Nos. 118 & 119. Triple Expansion Pumping Engines.	12/07/1896	01	204-058
Suction and Discharge Valves for West Side Pumping Engine	10/26/1886	03	032-185
Suction Distributing Chamber for West Side Pumping Station	12/01/1886	03	032-207
Surface Condenser for Decatur Water Works (Fewer Details)	03/17/1884	03	032-016B
Surface Condenser for Decatur Water Works (More Detail)	03/17/1884	03	032-016A
Tension Carriage and Sheave for 18" & 34"x48" Cross Compound Engine. W.A. Clark. Butte, Montana	10/06/1896	01	204-023
Top and Bottom Plates for 3 Million Gallon Pumping Engine.  Madison Water Work	03/15/1901	01	254-061
Top Plate. 10 Million Gallon Pump Engine. 21.5"-40"-58" & 23.25" x36. Terra Haute	08/09/1904	02	332-060
Upper Gallery. 2-38" & 80" x60" Vertical Cross Comp. Engine. New Orleans R.Y. Co.	03/03/1903	02	303-017
Upper Gallery. 43" & 86" x60" Horizontal & Vertical Double Comp. Engine. Southern Electric Light & Power Co.	01/29/1903	02	303-005
Vacuum Pots. 3 Cylinder Compound Pumping Engines, Allegheny City Water Works.	11/07/1883	03	032-032
Valve Gear for 12" and 22"x36" Tandem Compound Engine. Hercules Ice Machine Co.	04/10/1895	03	186-046
Valve Gear for 22"x42" 1890 Engine for Cleveland and Elyria R.R. Co.	04/02/1895	03	186-037
Valve Gear for Cylinder. 14" & 14.5"x36" Air Compressor. Standard Mining Co.	04/25/1895	03	186-065
Valve Gear, Carriers and Rods for 16"x36" Corlisse Engine. F.F. Collins MANFG. Co. San Antonio Water Works Co.	09/23/1896	01	204-006
Valve Gear, Cylinder, Etc. 16" x36"- 1890 Engine. Dension	03/06/1903	02	305-015

Light & Power Co.			
Valve Rods and Stands for Omaha Pumping Engine (4 Million	12/13/1886	03	032-196
Gallons)			
Valves and Bonnets. 12 Million Gallon Pumping Engine.	08/08/1898	01	221-061
Hackensack Water Co.			
Valves for Omaha Pump Engine	01/1886	03	032-041