

**E.F.W. Alexanderson Papers
1896-1975**

**Mss A379
Mss A379 1975**

Quantity: About 58 cubic feet
Access: Collection is open to research.
Acquisition: Gift of the Alexanderson family, 1970 and 1975. See Administrative Note
Processed by: See Administrative Note

Administrative Note:

This collection was given by the Alexanderson family in two separate gifts with the first given in 1970 (Mss A379) and the second in 1975 (Mss A379 1975). The gifts were processed separately with each having its own finding aid and accession number. Further processing work was done in 2007 and new finding aids were written. While materials were placed in new folders, the original arrangement remained intact. Further revisions were made in 2013. Materials that were previously left untouched have been sorted and rehoused in new folders. Instead of each gift having its own finding aid, one finding aid for both collections was created. In the Scope and Content Note as well as the Box and Folder Listing, it has been noted which materials were apart of which gift.

Biographic Note:

Dr. Ernst Frederik Werner Alexanderson was born in 1878 in Uppsala, Sweden. He studied engineering at the University of Lund in Lund, Sweden and the Royal Technical University in Stockholm, Sweden before completing post-graduate work in electrical engineering at the Technical University in Berlin, Germany. During his studies in Berlin, he became acquainted with the work of Dr. Charles P. Steinmetz of Schenectady, New York. Steinmetz's work influenced him to move to the United States, which he did in 1901. His first position in the United States was as a draftsman for the C&C Electric Company in New Jersey. In February 1902, he accepted a job at General Electric (G.E.) in Schenectady, New York, which launched his forty-six year career with the company.

During his career, Alexanderson became one of G.E.'s most prolific inventors. He received more than 300 United States patents with his first awarded in October 1906. His last patent was issued when he was ninety-five years old. Alexanderson worked in several fields including railway electrification, power transmissions, and electric ship propulsion but is best known for his work in radio and television.

Beginning in 1904, Alexanderson designed a series of high-frequency alternators that would be used for radio transmission. Reginald Fessenden, a pioneer in radio, used one of Alexanderson's early radio alternators in his voice and radio broadcast experiments. A later version of Alexanderson's radio alternator served as the prototype for a long-wave radio network created by the Radio Corporation of America (RCA). Shortly after RCA was formed in 1919, Alexanderson became its first chief engineer. For the next several years, he split his time between G.E. and RCA. In recognition of his work in radio, Alexanderson was awarded the Institute of Radio Engineers Medal of Honor in 1919.

In 1925, Alexanderson began experimenting with television. He staged the first home television reception in his Schenectady home in 1927. The first public television demonstration took place on January 13, 1928 at Proctor's Theater in Schenectady. Later in his career, he investigated electronic

power conversion, direct-current power transmission and gun control systems. During World War II, Alexanderson worked with analog computers for radar use and developed the amplidyne for military purposes. The amplidyne is a rotating magnetic amplifier that has specialized windings in order to create large power outputs from small power inputs. In 1944, he was awarded the American Institute of Electrical Engineers Edison Medal for his work on amplidynes.

After a forty-six year career at G.E., Alexanderson retired in 1948. He did, however, continue to work as a consultant for the company. Beginning in 1952, he began to consult with RCA in the development of color television. Alexanderson died in 1975 in Schenectady.

Scope and Content Note:

This collection contains the professional and personal papers of Dr. Ernest F.W. Alexanderson. It includes correspondence, research notes, reports, scholarly papers, sketches, technical drawings, photographs, blueprints, patents, patent docket, scrapbooks, pamphlets, newspaper clippings and transcripts. Materials in the collection date from 1896 to 1975 with the bulk dating between 1902 and 1948. The majority of materials are in English but there are some materials in either Swedish or German, which have been identified in the Box and Folder listing. The condition of the material in the collection ranges from fair to good.

The collection is arranged into the following series: Professional Papers; Personal and Professional Papers; Publications by Alexanderson; Photographs and Biographies; Patents; Miscellaneous Professional and School Papers; Oversize Awards, Diplomas, Photographs and Drawings; Personal Correspondence, Ephemera, Newspaper Clippings, General Electrical Publications, Publications in Swedish, Company Brochures and Membership Directories, Miscellaneous Publications, Miscellaneous Materials and *Elektrotechnische Zeitschrift*. The creation of these series was done by the archivist, who did the initial processing in the 1970s. Each gift was treated as a separate collection even though there was overlap between the two. It is believed the arrangement of the collection is based on the order in which it was received. Therefore, some series contain similar materials.

Series I - Professional Papers, 24.32 cubic feet (Mss A379): This series contains papers related to Alexanderson's career with G.E. and RCA as well as papers from his work as a consultant. It dates between 1902 and 1969 with the majority dating between 1902 and 1948. It includes technical papers, reports, research notes, correspondence, sketches, drawings, blueprints, docket, maps, and pamphlets. The series is arranged in chronological order. Its materials are associated with many of Alexanderson's well-known projects such as his work with high-frequency alternators that were used in radio and television. There is also correspondence written between Alexanderson and several of his collaborators and mentors like Reginald Fessenden, Charles P. Steinmetz, William Stanley, Samuel P. Nixdorff, Alfred N. Goldsmith and Chester W. Rice. The materials in the series were given in the 1970 gift.

Series II – Personal and Professional Papers, 3.04 cubic feet (Mss A379): This series mostly contains Alexanderson's personal papers but it also includes materials related to his professional career. It holds correspondence, invitations, pamphlets, newspaper clippings, booklets, transcripts, scrapbooks and photographs. It has Alexanderson's correspondence with John Hays Hammond Jr., the "the father of radio control," correspondence with the Nobel Committee and papers related to his participation with Columbia University's Oral History project. There are also materials regarding his summer cottage in Lake George, NY as well as his boat. In addition, there is material related to his interview for the National Broadcasting Company's "I'm an American" program. This was a weekly radio program run by the U.S.

Department of Justice and featured interviews of European immigrants, who applied for U.S. Citizenship. The series is arranged alphabetically by subject and was a part of the 1970 gift.

Series III – Publications by Alexanderson, 3.04 cubic feet (Mss A379 and Mss A379 1975): The Publications by Alexanderson series contains publications dating between 1904 and 1952 that were written by Alexanderson during the course of his career. The series is arranged alphabetically by title and contains material from both gifts. In some instances, the folder includes a copy of the complete issue of the journal the article was published in. Other folders only have a print copy of the article or copies of a draft. There is also a book titled “Collection of Published Papers, EFW Alexanderson, 1900-1940” that includes an index of articles that is divided by year.

Series IV – Photographs and Biographies, 3.04 cubic feet (Mss A379): This series contains photographs from about 1919 to 1969. These photos are both professional and personal in nature. A majority of the photographs document Alexanderson’s professional activities including photos of machinery like radios, televisions, and ships. There are also photos of Alexanderson working and testing his inventions as well as photographs of him at lectures, banquets and award ceremonies. The personal photographs include some from his childhood and his boats.

The series also has biographical files that were used in a professional capacity. Much of this information was used for publicity and there are three folders containing publicity material dating from 1904 to 1975. A copy of an oral history interview that took place on February 22, 1951 can also be found. Additionally, there are copies of tributes and obituaries that were published at the time of his death in 1975. There are also materials related to the Edison Medal that was awarded to Alexanderson in 1944. The materials in this series were a part of the 1970 gift.

Series V – Patents, 9.12 cubic feet: This series contains copies of patents awarded to Alexanderson during the course of his career as well as their corresponding documents. It is divided into two sub-series, Patent Supplemental Material and Patents.

The first sub-series, Patent Supplemental Material (Mss A379) was a part of the 1970 gift and consists of supporting documents to Alexanderson patents that were awarded between 1952 and 1963. The materials are arranged in notebooks and folders that were given the designation of P and a number from 1 to 26. The majority of the notebooks contain material that was associated with one topic but some notebooks have material on multiple topics. Topics covered in this sub-series include capacitors, aerial navigation, color television, molten metal, electronic motor control, magnetic amplifiers, motor control, and analogue computers. The type of material in each notebook varies but there is correspondence, reports, disclosures, patent applications, docketts, and amendment forms.

The Patent (Mss A379 1975) sub-series has copies of patents that were issued to Alexanderson and are arranged in chronological order. There is a folder that has a list of all Alexanderson’s patents by year and topic as well as a binder of patent drawings. A folder containing Alexanderson’s foreign patents can also be found in the sub-series. These materials were part of the 1975 gift.

Series VI – Miscellaneous Professional and School Papers, 6.08 cubic feet (Mss A379 1975): This series has professional and school papers dating between 1896 and 1975. The majority of the materials are related to Alexanderson’s professional career. They are arranged in chronological order and were given in the 1975 gift. There are notebooks and papers from Alexanderson’s time at the University of Lund and the Berlin Technical University. The series also has some of his early professional work including graphs

and tabulations from a summer position at the Swedish electrical firm, Allmänna Svenska Elektriska Oktiebolaget. There are also materials from his work at the C & C Electrical Company. Additionally, the series contains blueprints, drawings and layouts of various projects including the Pan American Wireless and the A.E.F.G. Brazil Stations. There are nine folders of material related to his consulting work following his retirement from G.E. Topics covered in these folders include aerial navigation, color television, computers, cascade magnetic amplifier, power transmission, electronic torque amplifier, motor control systems, and electric control apparatus.

Series VII – Miscellaneous drawings, diplomas, and photographs, .75 cubic feet (Mss A379): This series contains drawings, diplomas and photographs that are oversized. There are several drawings, which were done by Alexanderson while he was studying at the University of Lund. In addition, the series has honorary degree certificates and other certificates including an Honorary Doctor of Science degree from Union College as well as a certificate from the Society of the Sigma Xi. Some materials are written in Polish and there are also unidentified photographs.

Series VIII – Personal Correspondence, .8 cubic feet (Mss A379 1975): This series mostly contains correspondence written to Alexanderson from 1901 to 1920 with the majority dating from 1901 to 1910. The material in this series was given with the 1975 gift. In addition to correspondence, there are some receipts, brochures and business cards. The series is first arranged by language of the item and then in chronological order. The majority of the correspondence is written in Swedish. Many of the non-English letters are believed to have been written by members of Alexanderson's family in Sweden.

Series IX - Ephemera: The ephemera include a hat and a small wooden box with glass slides. The hat is in its original hatbox and was made in Sweden. It was a part of the 1970 gift. The small wooden box contains thirty-one glass slides of photographs. Many are portraits of people but some are scenes of everyday life. They were given in the 1975 gift.

Series X – Miscellaneous Publications, 1.25 cubic feet (Mss A379 1975): This series contains publications written by other scientists on topics related to Alexanderson's work during the course of his career.

Series XI - Miscellaneous Materials, 1.25 cubic feet (Mss A379 1975): This series contains a variety of materials including some that are personal.

Series XII- General Electric Publications, 1.25 cubic feet (Mss A379 1975): This series contains publications published by General Electric but does not contain any articles written by Alexanderson.

Series XIII- Publications in Swedish, 2.5 cubic feet (Mss A379 1975): This series contains publications that are written in Swedish.

Series XIV- Company brochures and membership directories, 1.25 cubic feet (Mss A379 1975): This series contains company brochures and membership directories from other companies besides General Electric.

Series XV- Elektrotechnische Zeitschrift, 1900-1903, 1.25 cubic feet (Mss A379 1975): This series contains copies of the German publication, Elektrotechnische Zeitschrift from 1900 to 1903.

Series XVI- Newspaper Clippings, 6.25 cubic feet (Mss A379 1975): Clippings of newspaper articles highlighting the work and achievements of Alexanderson can be found in this series. In addition to articles about his career, the series also contains clippings pertaining to the kidnapping of Alexanderson's son, Verner in 1923. Some of the clippings have been photocopied for preservation purposes but most are in poor condition.

Box and Folder Listing:

Filing Cabinet Drawer Number	Folder Number	Folder Contents
		<i>Series I - Professional Papers (Mss A379)</i>
57	1	1902(3)- 1907 Test specifications; drawings; AG Davis and other patent dept.; scholarly papers; correspondence with Fessenden; Induction Motors; patents; Automatic Voltage Regulator
57	1a ₂	1903 Pencil notes
57	1a ₁	No date Blueprints and drawings
57	2A	January 26, 1905-May 9, 1906 Notes, reports, patents, sketches, expense reports, instructions on machines, and papers on machines and projects
57	2a	1905-1907 Correspondence with Fessenden, modifications of machine built for Fessenden, calculations and drawings
57	2B	June 8, 1906-December 18, 1909 Correspondence mostly with Fessenden, technical drawings, and technical reports
57	2b	1908-1909 High Frequency Alternator Correspondence, Fessenden correspondence, and drawings
57	3A	April 23, 1906- May 29, 1907 Material on various motors, instructions to Testing Department, design specifications, reports of test customers' equipment, letters to A.G. Davis, work for Fessenden, and possibly duplicates of material in other folders
57	3a	1907 Technical Report subject: Single phase railway motor by Charles Steinmetz
57	3B	June 1907- December 1909 (1910) Correspondence, drawings and calculations
57	3b	1910-1919 Correspondence
57	4	1911 Carbons of letters, varieties of motors, diagrams, letters to Fessenden, Agora papers and patents by others, examined and commented on.
57	4A	1911

		Correspondence—I R T, pencil notes and reports
57	5	1907-1909 Railroad Technical Reports and blueprints
57	5A	Jan. 1911 Hunts "Crusade" Motor Report by Alexanderson
57	6	1907, 1914, 1924 Technical Reports – A.C. Locomotive with D.C. Starting
57	6A	1908-1910 Motor reports, blueprints, calculations, technical drawings and photographs of motors
57	6B	1908?-1917 A.C. Railway Motors design data, test data and Blueprints
57	7	1911-1914 Design motors for ship propulsion—California, design and redesign of "Jupiter" and Hunt Cascade
57	8	1911?-1913 Miscellaneous reports, technical reports, blueprints and technical drawings
57	9	1911-1915 Dr. Charles P. Steinmetz, correspondence, and calculations
57	11	February 1, 1912 Report: Winding Scheme for Three Speed Quarter Phase Inductor Motor
57	12	April 29, 1912 Report: Calculation of Magnetizing Current and Leakage Reactance of Induction Motor
57	13	December 2, 1912 Report: Design of 2500 KVA, 60 Cycle Phase Balancer Set
57	14	1912 Report: 8000 HP Double Squirrel Cage Ship Motor
57	15	1911?-1914 Blueprints
57	17	February 16, 1912- August 17, 1917 Correspondence mostly to the Patent department, drawings and calculations on motors, radio telephony, and radio telegraphy
57	18	January 22, 1913 - November 19, 1920 Dockets and letters from Davis to EFWA
58	24	1911-1915 Technical reports
58	27	April 1913 Technical Report No. 12153: Synchronous Induction Motor
58	28	July 1913 Technical Report No. 12158: Special Wave Form Alternator
58	29	July 1913 Technical Report No. 12162: Split Phase Locomotive-Demonstration
58	29a	July 1913 Technical Report No. 12163: Voltage Regulator without Moving Parts
58	30	September 1913 Technical Report No. 12165: Heat Flow from High Resistance Squirrel Cage Bars

58	31	September 1913 Report: Heat Flow from High Resistance Squirrel Cage Bars
58	32	1913-1914 General Electric correspondence
58	33 ₂	1913-1914 Letters to Alexanderson from "William Stanley"
58	33b	1914 Correspondence and technical drawings
58	34	August 1914 to December 1915 Correspondence mostly on high frequency apparatus and radio telegraphy/telephony
58	35a	1914-1917 Correspondence with Marconi Company regarding the Alexanderson alternator
58	36	September 1914 Technical Report No. 12084: IQ with Hunt Rotor
58	37	April 1914 Report: Dielectric Losses at High Frequency
58	38	September 1914 Report: Phase Converter and Control for Split Phase Locomotive
58	39	June 1914 Technical Report No. 12180: Dielectric Hysteresis at High Frequency
58	40	August 1914 Report: Tasks and Calculations for Characteristics of Series Repulsion Motor
58	41	August 1914 Report: Hunt Cascade Motor
58	42	February 1915 Technical Report No. 13513: Study on Motor and Generator Designs for Battleship California
58	44	January 1915 Technical Report No. 13511: Special Wave Form Alternator
58	48	1915 Report: Control Connection for Magnetic Amplifier
58	49	1915-1921 Correspondence with Reginald Fessenden regarding Fessenden Oscillator
58	50	1915-1918 Correspondence, technical drawings and notes on Magnetic Amplifier
58	51	1916-1919 Correspondence with Dr. Goldsmith
58	52	1916-1917 Correspondence with S.P Nixdorff, Dr. Goldsmith, C.W. Rice, Beveradge, Lt. Com. S.C. Hooper, and Signaling Corps. New Brunswick Station
58	54	June 1916 Report: Inspection of Swedish Railroad Electrification
58	55	1916 Technical Report No. 13542: Theoretical Calculations and Tests of Double Squirrel
58	56	1916-1919

		Report: Radio Telephony
58	57	1917-1918 Correspondence: New Brunswick, Navy, Marconi Wireless, French government, labor in wartime and radio research
58	58	No Date Work Report: Research on Radio Communications
58	59	1917 Technical Report No. 13670: Phase Converters
58	60	March 5, 1918 Technical Report no. 13572: Theory and Test on Induction Motors with Second Harmonic Fields
58	61	1917 Reports, drawings, and New Brunswick Original sketches
58	62	1918 Technical Report No. 11711-B: Saturation Regulator
58	63	1918 Technical Report No. 15002: Antenna Capacity Determined by Measurement on Models
58	64	December 1, 1918 Preliminary Report on the Freak Wave Alternator by E.F.W. Alexanderson and G.G. Mercer
58	65	1917 Engineering report on proposed radio station of transoceanic communication
58	66	1918 Marconi Company, GE installation at New Brunswick, requirements and expenditures
58	67	1918-1919 Barrage Receiver in Bar Harbor log
58	68	September 19, 1918 Harold Beverage log
58	69	1919 Correspondence to Beverage, Becker, Mittag, and Prince regarding inventions and electric slip
58	70	September 1918 Radio reports
58	71	October 2, 1918- December 9, 1918 Log of New Brunswick Station and daily operations
58	72	January - December 1919 Magnetic Vacuum Valves, Wave-Length Regulator, Ship to Shore Radio, Synchronous Motor for Ship Propulsion, Barrage Sets, Telephony, Telegraphy, Marconi Company and New Brunswick Station.
59		"Unlabeled-Found Lose in Drawer"
59	73	1919 Report: Radio Corporation Marconi Wireless Telegraph Company of America and General Electric Company
59	74	1919-1920 Correspondence with Marconi Company

59	74a	February 11, 1920 Technical Report No. 15053: Wire Effect Corrections to be Applied to Capacity Measurements on Antenna Models
59	75	1919-1924 Correspondence with personal clubs and organizations
59	76	1920 Correspondence, notes and reports: Radio development
59	77	1921 Notes and drawings
59	78	March 1920 Report: Magnetic Valve Transmitting Set No. 1
59	79	1920 Report: Magnetic Amplifier
59	79a	1920 Notes and calculations on magnetic valve amplifiers
59	80	1920-1923 Design calculations for vacuum valve
59	80a	1921-1929 Correspondence
59	81	1921-1922 Correspondence: design specifications
59	82	1921 Notes and correspondence: traffic agreement and with Swedish Government
59	82a	1923 Notes from Radio Corporation of America
59	83	December 20, 1921 Report: Investigation of Characteristics of Speed Regulation of 200 KW High Frequency Alternator Set on Power Supply of Varying Frequency
59	84	May 3, 1921 Report: Estimate of Mutual Effects between Antennae New York Radio Central
59	85	April 18, 1922 Report: Results of Special Tests on 200 KW High Frequency Alternator
59	86	May 26, 1922 Report: Induction Motors
59	87	November 1920 Report: Experimental Work on 200 KW Set at Radio Central
59	88	1922-1923 R.L Chapman's and J.S. Baler's work log with some notes by EFWA
59	89	1920-1925 RCA/Swedish Government traffic and sales agreements
59	89a	December 26, 1923 Report: Speed Regulation of Alexanderson Radio Frequency Alternators
59	90	1923 Correspondence: Mercury Rectifiers, Telephony, Swedish RRs, Television, Technical Education and engineering reports
59	90a	1924-1925 Correspondence, notes, calculations and drawings of D.C. Transmission

59	91	1924-1931 Sketches, notes, and correspondence on television
59	92	No Date Letters, blueprints and notes: high frequency transmission sent to W.W. Brown of Radio Engineering Department of GE
59	93	1924 Technical Report No. 17156: Development of Tube Equipment for the High Speed Telegraphic Control of Alexanderson Alternators
59	94	1924 Notes on D.G. transformers
59	95	1913-1925 Technical papers and patents
59	95a	1925 Paper: Refraction of Short Radio Waves in the Upper Atmosphere by W.G. Baker and Chester W. Rice
59	96	1925 Blueprints
59	96a	June 2, 1925 Report: The Thyatron Converter by E.F.W. Alexanderson
59	97	1924-1925 Correspondence and notes: television, engineering reports and vacuum tubes
59	99	1925 Report: High Voltage Direct Current Generator
59	100	1925 Report no. 16829: Propagation Test on Vertical Radiation
59	101	April 29, 1925 Report: Tuning in Geometrical Progression at Broadcast Frequencies
59	102	January 1925 Technical Report No. 17359: Single Phase Locomotive with D.C. Starting
60	102	1925-1928 Engineering reports from Mr. E.W. Allen Office
60	103	1926 Pamphlets, notes, and correspondence on radio
60	104	1926 Correspondence, notes and reports: television and short radio waves
60	105	1925-1927 Notes, correspondence, drawings and technical data on power transmissions
60	106	1925-1927 Notes and correspondence on patent suit with Split Dorf Electrical Co.
60	107	1926 Patent Suit reports and materials: Split Dorf Electrical Co.
60	108	July 1927 Patent reports: RCA et. Al v. E.J. Edmond & Company, Inc.
60	[no number]	1926-1927 RCA report
60	[no number]	1926 Equity No. 1669 on Alexanderson Patent No. 1,173-079 transcripts

60	109	1927 Correspondence and notes on radio and television signaling
60	110	February 15, 1926 Report: Main Considerations in Antenna Design
60	111	May 19, 1926 Report No. 17669: Transmission of Horizontally Polarized Waves
60	112	1926 Correspondence and reports on thyratons for locomotives
60	113	1927 Correspondence and notes on radio waves
60	114	1927-1928 Correspondence, notes and calculations for Radio Corporation
60	114a	1927 Correspondence, notes and calculations, reviews and newspaper reports on television
60	115	1928 Correspondence, notes, calculations, and blueprints for Facsimile- Telegraphy Transcontinental Radio
60	115a	1927 Patent: Judgment for Selective Tuning
60	116	1928 Newspaper clippings, notes, correspondence on television
60	117	1928 Correspondences, notes, calculations and reports with the Radio Corporation
60	118	November 20, 1928 Letter to Federal Radio Commission Authority from WGY
60	119	1927-1928 Correspondence and reports on television
60	120	1927-1930 Handwritten notes regarding facsimile samples—keying of transmitter
60	121	1928-1930 Blueprints, drawings, notes and calculations for Pennsylvania RR and A.H. Mittag
60	122	1929 Maps and pamphlets
60	123	Correspondence, notes and calculations to Radio Corporation regarding meetings, development and appropriations
60	124	June 1, 1929 Union Pacific Locomotive Detailed list of estimated costs of Catenary Construction
60	125	October 16, 1929 Report: The Control of Power by Means of Electron Tubes
60	126	June 25, 1929 Report: Developments in Radio Facsimile
60	127	1929 Handwritten notes and letters on television
60	128	1928-1929 Correspondence: television, lamps, Zworykin paper, practicality of color, single

		phase motor and thyatron locomotive
60	129	March 1930 Report: Automatic Frequency and Load Control
60	130	November 10, 1930 Report: Induction Motor as a Load for a Thyatron Invertors Circuit
60	131	January 1, 1930 A Review of Electrical Developments from 1920-1930
60	132	November 26, 1930 Data Folder: Effect of Increasing Step-up Transformer Ratio on Transient Stability Limit
60	133	October 29, 1930 Data Folder: Effect of Shunt and Series Braking Resistors on the Transient Stability Limit
60	134	January 23, 1930 Report: Operation of D.C. Railway Motors from Single Phase through Thyatron
61	135	1929-1930 Engineering reports and paper on Swedish Engineers in America
61	136	1930-1939 Notes and correspondence: International Radio Tests
61	136a	1930-1939 Notes and correspondence: International Radio Tests
61	137	1931 Blueprints
61	138	September 13, 1930 Data Report: Transatlantic Television Tests for Wave Propagation Analysis
61	139	1931 Blueprint and drawings
61	140	1931 Handwritten notes, drawings and correspondence on motors and transformers
61	141	1932 Correspondence: thyatron inverter
61	142	1931-1933 Correspondence, drawings and blueprints on thyatron motor
61	143, 144 and 144a	1933 Reports: August Solar Eclipse and G.E. Facsimile Recording
61	145	1933 Blueprints
61	146	1932 Correspondence: thyatron motor, ship stabilizer, gun control, transformer for thyatron and radio waves
61	147	1931 Correspondence and blueprints: August Solar Eclipse and G.E. Facsimile Recording
61	148	1932-1936 Correspondence regarding thyatron motor; power transmission; high power tubes; radio
61	149	1933

		Blueprints and notes on A.C. Thyatron Locomotive
61	149a	April 28, 1933 Report: Turbine-Electric Locomotive with High Frequency Generators and Thyatron Operated Synchronous Traction Motors
61	151	January 12, 1933 Report: Choice of Induction Motors for Turbine
61	152	1933 Correspondence: thyatron equipment locomotive, electric ship propulsion, gun control and power transmission
61	153	1934 Notes and drawings on 12,000 Volt D.C. Locomotive
61	155	No Date Notes and drawings: the Glesum System and D.C. Power
61	156	1936 Miscellaneous blueprints and notes
61	157	1934 Report: The Thury System as a Public Works Project by H.M. Hobart
61	158	1935 Miscellaneous blueprints and notes
61	159	September 1935 Report: Suggested Materials for the Electronics Chapter on GE by Vacuum Tube Engineering Department of GE
61	160	November 29, 1935 Handwritten notes and drawings: the Study on Constriction Surges
61	161	1934 Correspondence: thyatron motor, scrollophone, thyatron invertors, navigation and landing in fog, and D.C. power transmission
61	[no number]	1934 Correspondence and notes: Turbine Electric Locomotive
61	[no number]	1934? Letters: Automatic Gun Control
61	[no number]	No Date Blueprints
61	[no number]	No Date Drawings and photographs
62	162	1935 Correspondence: International Scientific Radio Union, American Section of D.C. Power Transmission
62	162a	1935 Correspondence: hydraulic amplifiers; International Scientific Radio Union and thyatron motor
62	163	January 20, 1936 Report (Blueprints): Decay of a Plasma by E.J. Lawton and K.H. Kingdon
62	164	August 21, 1936 Report: Some Technical and Economic Aspects of the Production of Very High Power and its Transmission over Long Distances
62	165	October 27, 1938

		Report: Long Distance Power Transmission
62	166	1936-1937 Correspondence and blueprints: Steam Electric Locomotive and Union Pacific Railroad
62	167	April 17, 1937 Report with Blueprints: Power Application of Vacuum Tubes
62	168	1936 Correspondence, notes and reports: short wave navigation devices, fog lights for boats and ship propeller
62	168a	May 1936 Spectrum graphics
62	169	1936-1941 Correspondence and notes: amplidyne
62	169a	1937 Report: Electric Torque Amplifier
62	170	1937 Correspondence: power tubes, radio trails for aircraft, power transmission and florescent light
62	170a	1937 Report: Inductor Telephone System for Train Communication
62	171	1937-1938 Correspondence and drawings: radio trails, radio patent situation, thyatron motor, and amplidyne
62	171a	July 1, 1937 Report: Synchronizing and Stability Tests on Salient Pole Synchronous Motors
62	172	May-June 1937 Reports of Proceedings before the Federal Communications Commission
62	172a	April 14, 1937 Report: Power Application of Vacuum Tubes by E.F.W. Alexanderson
62	172b	November 1937 Report: Operation of Thyatron Motor at Logan, West Virginia
62	173	1937-1939 Correspondence, notes and reports: D.C. transmission
62	174	1938 Correspondence and notes: aircraft spotting for Navy; electric speed control
62	174a	June 28, 1938 Handwritten letter from E.F.W. Alexanderson to his wife
62	175	1938 Statistics on Chicago, Milwaukee and St. Paul RR 300 Volt Mercury Arc Rectifier
62	176	October 27, 1938 Report: Long distance Power Transmission by E.F.W. Alexanderson
62	177	April 5, 1938 Report: Variable Current Series System of D.C. Power Transmission by E.F.W. Alexanderson
62	178	1938 Report: Bonneville Project
62	179	October 11, 1939

		Memo regarding Tube Development Work for Dr. Alexanderson Being Carried on by Vacuum Tube Engineering Department by O.W. Pike
62	180	May 1938 Report: Preliminary Air-Cooling Tests on Inverter Tube
62	181	September 1938 Report: Tests and Changes made on Thyatron Motor at Logan by E.L. Phillipi
62	182	1938-1939 Blueprints of the Union Pacific Steam Electric Locomotive
62	183	1938 Blueprints
62	184	July 27, 1939 Report: Air Cooling Tests on Inverter Pool by C.R. Smith
62	185	No Date Blueprints
62	186	October 1, 1939 Report: The Amplidyne Generator
62	187	1938 Correspondence and blueprints: D.C. transmission
62	188	August 8, 1938 Report from the United States Patent office
62	189	June 1939 to June 1940 Drawings and correspondence: ship propulsion
62	190	1939-1945 General Electric Briefs
62	191	1940 Correspondence and notes: ship propulsion, power transmission and beam antenna
62	193	June 4, 1940 Report: Electric Ship Propulsion with Multiple Engines
62	194	October 24, 1940 Progress Report: Tube Control for Ship Propulsion
62	197	1940-1942 Correspondence and notes: D.C. transmission
62	198	1940-1945 Calculations of Office Budgets
62	199	1941-1942 Notes, calculations and drawings: computer control of range tracking; gun direction; blind landing
62	200	June 12, 1941 Report: Gun Direction and Computer
62	201	June 12, 1941 Report: Gun Direction and Computer
62	202	1941 Report and blueprints: Control of Electric Ships Propulsion with Multiple Engines
62	202a	1941 Blueprints: Control of Electric Ships Propulsion with Multiple Engines
62	203	1940-1941

		Correspondence: electric ship propulsion
62	204	1941-1942 Correspondence: ship propulsion
62	[no number]	1942-1943 Correspondence
63	205	1941-1943 Correspondence and notes: beam antenna and Radio Gun Director
63	206	1941-1945 Correspondence and notes: Creative Engineering Program
63	207	1942 Correspondence and notes: gun laying, radar signals, computers, and National Defense Research Committee
63	208	Spring 1942-October 1943 Correspondence, notes and reports: radio navigation, amplidyne system, frequency changer, non-directional radio, blind landing, and radio vision
63	209	1942-1944 Correspondence and report regarding electronic motors and blind landing
63	210	1944 Correspondence, notes and blueprints: the National Inventors' Council Recommendations
63	211	January 1943-June 1946 Dockets - Alexanderson
63	212	1944 Correspondence and blueprints: electronic power converters, anti-hunting system for amlidyne, power tube commutation, D.C. power transmission, electric power transmission, electric railway starting, and radar spotting system
63	212a	1944 Correspondence: electronic power converters, anti-hunting system for amlidyne, and power tube commutation
63	213	1944 Blueprints and drawings: Locos
63	214	1944 Report: A Preface to Microwaves
63	215	n.d. Letters, notes, and drawings: Engineering Council Meeting, television in color, and D.C. locomotives
63	216	1945 Drawings and report: Purchase Specifications for Electronic Propulsion Machinery
63	216a	1945 Personal correspondence
63	217	February 27, 1945 Report: A Study of Steam Locomotive with Electric Drive for Eastern Railroads Committee; Induction Motor Drive vs. Direct Current Motor Drive.
63	218	1945 General Engineering and Consulting Laboratory Report of Normal Activities for Second Quarter

63	219	July 27, 1945 Report: Engineering Council on Radio Noise
63	220	November 15, 1945 Report: The Effect of Partitioning Upon Splash in a Mercury Pool Cathode Subjected to Accelerations Encountered in Railway Service
63	220a	April 13, 1945 Report: A-C Electric Locomotive Drive
63	221	September 24, 1945 Report: Escher-Wyss Aerodynamic Turbine Plant
63	222	September 23, 1944 - March 1946 Correspondence, notes, blueprints and drawings: railroads, ship propulsion, frequency changer, electric gun, and color television
63	222a	1945 Supplemental material to folder 222
63	223	January 1, 1945- December 31, 1946 EFWA letterbook with letters to patent Department, quarter reports of Engineering and Consulting Lab, and work on locomotives, ship propulsion and D.C. transmission
63	224	October 10, 1946 Report: Electric Heating on 2" I.P.S. Iron Pipe by the Engineering Department of the American Cyanamid Company
63	225	April 15, 1946 Report: Principles of Contact Converter
63	227	1946 Correspondence, notes, reports, drawings: turbine drive induction motor locomotive, frequency changer, and long distance D.C. power transmission
63	227a	1946 Supplemental material to Folder 228 including letters and drawings
63	229	July 10, 1946 - December 1947 Dockets and patents
63	230	1947 Letters and reports: ship propulsion, wave transmission, A-C power transmission, electric stabilizer for power transmission, and magnetic amplifier
63	230a	1947 Supplemental material to Folder 230
63	232	1947 Letters and papers: ship propulsion and wave transmission
63	233	June 1947 Report: Operation of D-C Motors from Controlled Rectifiers by A. Schmidt Jr. and W.P. Smith
63	234	September 5, 1947 Report: Electronic Capacitor Current Analysis by a. Schmidt Jr.
63	235	1948 Patent supplements
63	236	January 1948 Letters and notes to General Engineering and Consulting Laboratory
63	236a	1950

		Drawings: Supplements material in Folder 236
63	237	1947 Drawings, notes, letters and reports: ship propulsion, D-C power transmission and wave transmission
63	237a	1949-1951 Patents supplemental material including letters, notes and papers on power transmission
64	238	1947 Notes, drawings and papers: Inventing re-alternating current electrical power transmission
64	239	1948 Notes and drawings: electronic control of power systems
64	240	1948 Final Technical Report Volume I: Ship Propulsion Tube Development by H.N. Price
64	241	1949 Correspondence, notes, and papers: reactive control of power, ship propulsion tube, A-C and gas turbine for locomotives
64	242	January-June 1950 Correspondence, notes, and reports: Stabilization of Long-Distance Power Transmission
64	243	July - December 1950 Reports, correspondence and notes: Rectifier Locomotive; Transmission
64	244a	1951 Notes, correspondence and papers: long distance power transmission, Columbia University Oral History Project and patent docket
64	244b	1951 Notes, correspondence and papers: long distance power transmission, Columbia University Oral History Project and patent docket
64	245	1940-1954 Miscellaneous correspondence (in chronological order)
64	246	1951- Early 1953 Notebook with miscellaneous correspondence
64	247	July 1952-February 1953 Notebook with miscellaneous correspondence
64	248	1953 – December 1954 Notebook with miscellaneous correspondence
64	249	1955 – 1959 Miscellaneous correspondence
64	250	1960 – 1969 Miscellaneous correspondence
64		Ca. 1952 General Electric Scrapbook History
		<i>Series II - Personal and Professional Papers (Mss A379)</i>
65		Control Folder
65	1	AC Railway (Scrapbook); journals and articles
65	2	Alexanderson miscellaneous television and radio material; notes, letters and

		papers written on the topic of television and radio
65	3	Altimeter, history of; articles, papers and reports
65	4	Autographs, requests for; letters, invitations, donations
65	5	Boats and camp 1928-1935; letters, photographs, pamphlets notes
65	6	Boats and camp 1936-1937; letters, calculations, notes, blueprints
65	7	Boats and camp 1936-1937; books: Isarra Log 1937 and North American Yaught Racing Union 1942
65	8	Boats and camp 1938-1941; letters, pamphlets, newspaper articles, and calculations
65	9	Camp Engineering Association Island; letters, and initiations
65	10	Camp Lake George; articles and booklet
65	11	Chingachgook Camper; photo book
65	12	European Trip 1925; letters and mementos
65	13	Hammond, John Hayes Jr.; correspondence and drawings
65	14	High Frequency Development, history of; correspondence and technical drawings
65	15	"I'm an American" broadcast; Letters, and transcript
65	16	National Inventors Council; correspondence
65	17	NCR Guest of Honor, 1944; poster
65	18	Nobel Committee; letter, envelopes, and booklets
65	19	Nominations for awards and professional dinners; letters and invitations
65	20	"Oral History Project" Columbia University, 1951; letters, mail, and paper draft
65	21	Radio Mania; drawings and correspondence
65	22	Radio Matters; articles and other printed material
65	23	Ravine Park Association, Inc.; letter and report
65	24	Scrapbook; newspaper articles, magazine articles and other printed material on inventions
65	25	Scrapbook materials; pamphlets, programs, and other printed mementos
65	26	Security clearance; documents concerning security and photograph
65	27	Swedish-American Centennial Reception NC 1948 Trip; correspondence, booklet for banquet, pamphlets, and newspaper clippings
65	28	Swedish books 1; <i>Hering, Handbook Fuer Utstakning Af Kurvor</i> , and <i>EDM Wenstrom Dictionary</i>
65	29	Swedish books 2; <i>Das Ingeniers Taschenbuch</i>
65	30	The Swedish Colonial Society; booklet
65	31	Swedish Journalists Tour of the United States, booklet entitled: <i>The American Press on the Swedish Journalist's Tour of the United States 1942</i>
65	32	Swedish Pioneer Centennial—The American Swedish Monthly; booklet entitled: <i>Swedish Pioneer Centennial 1848-1948 June 1948</i>
65	33	Swedish Railroads, 1949; report on Swedish Pioneer Centennial, letters, telegrams and handwritten notes
65	34	Television (History of Facsimile) 1928; newspaper clippings, letters and pamphlets
65	35	Television, history of; typed reports, letters, typed papers, photograph
65	36	Tercentenary—Swedish American Association; correspondence on Swedish American Letterhead
65	37	Visitors; correspondence and official materials

Series III – Publications by Alexanderson (Mss A379 and Mss A379 1975)		
66		Control Folder
66	1	Collection of Published Papers by Alexanderson, 1900-1940 (divided by year with index).
66	2	Alexanderson, E.F.W. "Alternating Current Railway Motors" (1909).
66	3	Alexanderson, E.F.W. "Alternator for One Hundred Thousand Cycles." American Institute of Electrical Engineering (1909). (4 copies)
66	4	Alexanderson, E.F.W., M.A. Edwards and K.K. Bowman. "The Amplidyne Generator: A Dynamoelectric Amplifier for Power Control." General Electric Review 43, no. 3 (March 1940).
66	5	Alexanderson, E.F.W., M.A. Edwards and K.K. Bowman. "The Amplidyne System of Control." Proceedings of the Institute of Radio Engineers 32, no. 9 (September 1944).
66	6	Alexanderson, E.F.W. "Bau und Betrieb von Drehumformern in Amerika." Elektrotechnische Zeitschrift (1903). (German) Folder 1 of 2
66	7	Alexanderson, E.F.W. "Bau und Betrieb von Drehumformern in Amerika." Elektrotechnische Zeitschrift (1903). (German) Folder 2 of 2
66	8	Alexanderson, E.F.W. "The Behavior of Radio Waves." Radio News (October 1924): 410-.
66	9	Alexanderson, E.F.W. "Central Stations for Radio Communication." Presented before a joint meeting of the Institute of Radio Engineers and the New York Electrical Society (November 10, 1920) (3 copies)
66	10	Alexanderson, E.F.W. "Commercial Radio Communication." (April 25, 1922) (typewritten, unpublished?)
66	11	Alexanderson, E.F.W. "Control Applications of the Transistor." Proceedings of the Institute of Radio Engineers 40, no.11 (November 1952).
66	12	Alexanderson, E.F.W. "Control Applications of the Transistor." Proceedings of the Institute of Radio Engineers 40, no.11 (November 1952). (draft)
66	13	Alexanderson, E.F.W. "Cooperation Between Science and Engineering" (no date).
66	14	Alexanderson, E.F.W. "Critical Conditions in Long Distance Power Transmission" (no date).
66	15	Alexanderson, E.F.W. "Critical Speed of Railway Trucks." General Electric Review (November 1914).
66	16	Alexanderson, E.F.W. "Dielectric Hysteresis at Radio Frequencies." Proceedings of the Institute of Radio Engineers 2, no. 2 (June 1914). (3 copies)
66	17	Alexanderson, E.F.W. "Die geteiltphasige Lokomotive" Elektrotechnischen Zeitschrift (1913). (2 copies, German)
66	18	Alexanderson, E.F.W. "Die magnetischen Eigenschaften des Eisens bei Hochfrequenz bis zu 200 000 Per/Sek." Elektrotechnischen Zeitschrift (1911). (2 copies, German)
66	19	Alexanderson, E.F.W. "Duplex Radio Telephony." Presented before the Institute of Radio Engineers, New York, NY (April 4, 1917).
66	20	Alexanderson, E.F.W. "Dynamoelectric Amplifier for Power Control. American Institute of Electric Engineers Technical Paper (December 1939).
66	21	Alexanderson, E.F.W. "The Eclipse of August 1932 Observed by Radio Facsimile." Proceedings of the Institute of Radio Engineers 23, no. 5 (May 1935).
66	22	Alexanderson, E.F.W. and S.P. Nixdorff. "Ein magnetischer Verstaerker fuer

		drahtlose Telephonie." Dem Institute of Radio Engineers, NY (August 1916). (German)
66	23	Alexanderson, E.F.W. "Einphasenwechselstrom Kommutatormotor fuer Hauptbahnbetrieb." Elektrotechnische Zeitschrift 35, no. 36 (September 4, 1913). (German)
66	24	Alexanderson, E.F.W. "Electric Control and Computers for Radar Detectors and Guns" (November 25, 1941).
66	25	Alexanderson, E.F.W. "Electric Stabilizer of Ships" (May 5, 1932).
66	26	Alexanderson, E.F.W. "The Electrical Plant of Transocean Radio Telegraphy." General Electric Review 26, no. 7 (July 1923). (3 copies)
66	27	Alexanderson, E.F.W. "Electronic Converter for Power Transmission" (ca. 1935).
66	28	Alexanderson, E.F.W. "Electronic Engineering." Electronics (June 1936) (full magazine)
66	29	Alexanderson, E.F.W. "Electronic Engineering." Electronics (June 1936) (copy of article only)
66	30	Alexanderson, E.F.W. and E.L. Phillips. "The Electronic Power Converter." Electronical Engineering (September 1944).
66	31	Alexanderson, E.F.W., M.A. Edwards and C.H. Willis. "Electronic Speed Control of Motors." Presented at the American Institute of Electrical Engineers (January 1938).
66	32	Alexanderson, E.F.W. and D.C. Prince. "Electronic Stabilizer for Power Transmission." Presented at the American Institute of Electrical Engineers (June 1947). (4 copies)
66	33	Alexanderson, E.F.W. "Electronics and the Electrical Industry" (October 20, 1944).
66	34	Alexanderson, E.F.W. "Engineer Expects Amateurs to Simplify Television Optical Field of Radio Picture Transmission Represents Fertile Field for Research." New York City Times (September 1926).
66	35	Alexanderson, E.F.W. "The Fate of our Race According to Nostradamus" (no date).
66	36	Alexanderson, E.F.W. "General Characteristics of Electric Ship Propulsion Equipment." General Electric Review 22, no. 4 (April 1919).
66	37	Alexanderson, E.F.W. "Generating Apparatus for Wireless Telegraphy and Telephony." General Electric Review (January 1913). (3 copies)
66	38	Alexanderson, E.F.W. "Height of Airplane Above Ground by Radio Echo." Science 68, no. 1772 (December 1928). (2 copies)
66	39	Alexanderson, E.F.W. "High Frequency Generator for Wireless Telegraphy and Telephony." Scientific American Supplement (May 24, 1913).
66	40	Alexanderson, E.F.W. and E.L. Philips. "History and Development of the Electronic Power Converter." American Institute of Electrical Engineers Technical Paper (May 1944).
66	41	Alexanderson, E.F.W. "Hochfrequenzapparate fuer drahtlose Telegraphie und Telephone." Elektrotechnische Zeitschrift no.26 (June 1912). (German)
66	42	Alexanderson, E.F.W. "Horizontal Reception of Broadcast Waves." Radio Age (April 1926).
66	43	Alexanderson, E.F.W. "How Some Problems in Radio Have Been Solved." General Electric Review 27, no. 6 (June 1924). (2 copies)

66	44	Alexanderson, E.F.W. "The Imp in the Radio Box)." Collier's The National Weekly 69, no. 19 (May 13, 1922).
66	45	Alexanderson, E.F.W. "Induction Machines for Heavy Single Phase Motor Service." Presented at the 28th Annual convention of the American Institute of Electrical Engineers (June 28, 1911). (5 copies)
66	46	Alexanderson, E.F.W. "International Television" (ca. 1944).
66	47	Alexanderson, E.F.W. "Invention and the Corporation." General Electric Test Men 19, no. 2 (Summer 1951).
66	48	Alexanderson, E.F.W. "Locals that can't be Heard: New System May do Away with Interference Between Stations." Radio Progress (August 1, 1925).
66	49	Alexanderson, E.F.W. "Long Distance Power Transmission" (ca. 1951).
66	50	Alexanderson, E.F.W. "Magnetic Amplification..." (no date, incomplete).
66	51	Alexanderson, E.F.W. and S.P. Nixdorff. "A Magnetic Amplifier for Radio Telephony." The Wireless Age (May 1916). (3 copies)
66	52	Alexanderson, E.F.W. "Magnetic Amplifier for Radio Transmitters." Proceedings of the Institute of Radio Engineers 4 (April 1916).
66	53	Alexanderson, E.F.W. "Magnetic Amplifier in Power Circuits" (no date). Folder 1 of 2
66	54	Alexanderson, E.F.W. "Magnetic Amplifier in Power Circuits" (no date). Folder 2 of 2
66	55	Alexanderson, E.F.W. "Magnetic Amplifiers and Magnetic Regulators" (February 6, 1950). Folder 1 of 2
66	56	Alexanderson, E.F.W. "Magnetic Amplifiers and Magnetic Regulators" (February 6, 1950). Folder 2 of 2
66	57	Alexanderson, E.F.W. "Magnetic Properties of Iron at Frequencies up to 200,000 Cycles." American Institute of Electrical Engineers (November 1911). (5 copies).
66	58	Alexanderson, E.F.W. "Magnetic Regulator" (February 1950). (2 copies)
66	59	Alexanderson, E.F.W. "Mehrphasenmotoren im Anschluss an Einphasennetze." Elektrotechnische Zeitschrift 32, no. 29 (July 1911).
66	60	Alexanderson, E.F.W. "Methods for Measuring the Output of Induction Motors." Electrical World (January 16, 1904).
66	61	Alexanderson, E.F.W. "A New Chain of Short-Wave Commercial Stations to be installed on Pacific Coast." New York Herald Tribune (December 6, 1925).
66	62	Alexanderson, E.F.W. "New Fields for Radio Signaling." General Electric Review 28, no. 3 (March 1926). (4 copies)
66	63	Alexanderson, E.F.W. "New Fields Open for Development in Science of Radio Signaling." New York Herald Tribune Radio Magazine (February 22, 1925).
66	64	Alexanderson, E.F.W. "A New Theory of Wave Transmission." Popular Radio 9, no.3 (March 1926). (2 copies)
66	65	Alexanderson, E.F.W. "Phase Balancer for Single-Phase Load on Polyphase Systems." General Electric Review 16, no. 12 (December 1913). (2 copies)
66	66	Alexanderson, E.F.W. and A.E. Kennelly. "The Physiological Tolerance of Alternating Current Strengths Up to Frequencies of 100,000 Cycles per Second." Electrical World (July 21, 1910). (3 copies).
66	67	Alexanderson, E.F.W. "Polarization of Radio Waves." Presented at the American Institute of Electrical Engineers, Niagara Falls, New York (May 1926).
66	68	Alexanderson, E.F.W. "Power Transformation by Vacuum Tubes." Camp

		Engineering (1931).
66	69	Alexanderson, E.F.W. "Progress in Electronics and Radio." Radio Craft (March 1943).
66	70	Alexanderson, E.F.W. "The Progress of Wireless Telephony." Machinery (April 1916). (2 copies)
66	71	Alexanderson, E.F.W. "Radio Echo Altitude Meter." Journal of the Aeronautical Sciences 3 (July 1936). (2 copies)
66	72	Alexanderson, E.F.W. "Radio Favorite Child of Art & Sciences." Brooklyn Eagle (February 7, 1926).
66	73	Alexanderson, E.F.W. "Radio: A Liberal Education" (typewritten, published?)
66	74	Alexanderson, E.F.W. "Radio Photography and Television." General Electric Publications (1927). (5 copies)
66	75	Alexanderson, E.F.W. "Radio Transmitting Systems" (no date).
66	76	Alexanderson, E.F.W. "Radio Wave Propagation." Handlingar no. 48 (June 1928)
66	77	Alexanderson, E.F.W. "Reactive Control of Power Circuits" (August 12, 1949).
66	78	Alexanderson, E.F.W., D.C. Prince and R.W. Kuenning. "Reactive Control of Power Transmission" (ca. 1949).
66	79	Alexanderson, E.F.W. "Recent Television Experiments by General Electric Company." Television (June 1928).
66	80	Alexanderson, E.F.W. "Repulsion Motor with Variable-Speed Shunt Characteristics." American Institute of Electrical Engineers (June 1909). (5 copies)
66	81	Alexanderson, E.F.W. "Review of Horne's Book on Philosophy of Education" (1918). (From nonprofessional papers)
66	82	Alexanderson, E.F.W. "A Self-Exciting Alternator." American Institute of Electrical Engineers (January 1906). (2 copies)
66	83	Alexanderson, E.F.W. "Simultaneous Sending and Receiving." Proceedings of the Institute of Radio Engineers 7, no.4 (January 1919). (7 copies)
66	84	Alexanderson, E.F.W. "Single-phase Motor-car Equipments for Trunk Line Service." General Electric Review 16, no.5 (May 1913). (2 copies)
66	85	Alexanderson, E.F.W. and G.H. Hill. "Single-phase Power Production." Presented at the 325th meeting of the American Institute of Electrical Engineers (October 13, 1916). (5 copies)
66	86	Alexanderson, E.F.W. "A Single-phase Railway Motor." Presented at the 224th meeting of the American Institute of Electrical Engineers (January 10, 1908). (3 copies)
66	87	Alexanderson, E.F.W. "The Split Phase Locomotive." General Electric Review (October 1913).
66	88	Alexanderson, E.F.W. "Stabilization by Saturable Reactor" (no date).
66	89	Alexanderson, E.F.W. "Stabilization by Shunt Compensation" (June 7, 1950).
66	90	Alexanderson, E.F.W. "Strength of Revolving Discs" (February 1906).
66	91	Alexanderson, E.F.W. "The Thyatron Converter." Camp Engineering (June 2, 1925).
66	92	Alexanderson, E.F.W. and A.H. Mittag. "The Thyatron Motor." Reprinted by the American Institute of Electrical Engineers (1934). (2 copies)
66	93	Alexanderson, E.F.W. "Thyatrions and their Uses." Reprinted by Electronics (February 1938).
66	94	Alexanderson, E.F.W. "Thyatrions for Power Transformation" (February 12,

		1934).
66	95	Alexanderson, E.F.W. "Trails of Progress in Electronics and Radio." General Electric Review 46, no.3 (March 1943). (2 copies)
66	96	Alexanderson, E.F.W. "Trans-Atlantic Radio Communication." Institute of Radio Engineers (1919). (2 copies)
66	97	Alexanderson, E.F.W. "Transistors for Power Control" (ca. 1952).
66	98	Alexanderson, E.F.W. "Transmission of Intelligence by Wireless." (n.d.).
66	99	Alexanderson, E.F.W. "Transmission of Photographs and Moving Pictures by Radio." Presented at Association Island before G.E. Engineers (July 19, 1926).
66	100	Alexanderson, E.F.W. "Trans-Oceanic Radio Communication." Institute of Radio Engineers (1919). (7 copies)
66	101	Unidentified partial drafts of Alexanderson papers
		Series IV - Photographs and Biographies (Mss A379)
67		Control folder
67	1	Radio Engineer's University Club 1919; group photographs
67	2	Album-Machinery 1919; photographs of machinery and inventions
67	3	Album 1924-1926; work photographs and testing machinery photographs
67	4	Album 1924-1944; group photographs and personal photographs
67	5	Album Television 1922; photographs of machinery
67	6	Album Photographs Television 1926; radio and television apparatus photos
67	7	Album Photographs of New Brunswick Station
67	8	Childhood Photographs and Group Photo of Engineers Club 1949
67	9	Photographs of Alexanderson with radio machinery
67	10	Photographs of sailboat in Sweden and Alexanderson with hat
67	11	Photographs of Alexanderson working and portraits
67	12	Photographs of Alexanderson (Gift of Mr. and Mrs. Wallace, 1976)
67	13	Album, WGY
67	14	Alexanderson portraits
67	15	Alexanderson portraits and boat photographs
67	16	Alexanderson formal photographs
67	17	Alexanderson photographs on television and radio
67	18	Photographs of Swedish sailboat and television apparatus
67	19	Miscellaneous photographs from the 1920s; Alexanderson at lectures, banquets, award ceremonies, machinery and radio technology
67	20	Miscellaneous photographs, 1922-1969; ships, shipbuilding and engineer group photographs
67	21	Miscellaneous photographs, n.d.; machinery
67	22	Miscellaneous photographs of Alexanderson work
67	23	Radio facsimile
67	24	Photographs of Alexanderson projects, 1920-1950
67	25	Published text on Alexanderson and his work
67	26	Publicity, 1922-1947
67	27	Autobiographical files, miscellaneous, 1923-1970
67	28	Autobiographical files, oral history interview, February 22, 1951
67	29	Alexanderson biographies, 1916-1950
67	30	Correspondence for bibliographic information, 1922-1955

67	31	Edison Medal, 1944
67	32	Published biographical and public relations, 1904-1929
67	33	Published biographical and public relations, 1930-1949
67	34	Published biographical and public relations, 1950-1975
67	35	Tributes and obituaries
67	36	Unpublished biographical information, 1923-1940, Folder 1 of 2
67	37	Unpublished biographical information, 1923-1940, Folder 2 of 2
		Series V - Patents
		<i>Subseries - Patent Supplemental Material (Mss A379)</i>
68		Control Folder
68	P1	Series capacitors
68	P2	Series capacitors
68	P3	Series capacitors, May 1952 – ca. April 1953
68	P4	Aerial navigation
68	P5	Color television
68	P6	Color television
68	P7	Color television
68	P8	Receiver for color television, 1952-1953
68	P9	Color television transistor
68	P10	Transistor for power control
68	P11	Transistor for power control
68	P12	Transistor for power control
68	P13	System of blind landing
68	P14	Molten metal
68	P15	Electronic motor control
68	P16	System of aerial navigation, 1952-1953
68	P17	1953
68	P18	Aerial navigation, magnetic amplifier, transistor for power control, electronic motor control, push-pull magnetic amplifier, and motor control, 1953
68	P19	Push-pull magnetic amplifier
68	P20	Series capacitor, magnetic amplifier, electronic motor control, push-pull magnetic amplifier, motor with magnetic commutator, and magnetic computer, 1954
68	P21	Magnetic amplifier, electronic motor control, motor with magnetic commutator, motor control and analogue computer, 1955
68	P22	Aerial navigation, electronic motor control, push-pull magnetic amplifier, motor control, magnetic amplifier, control of semi-conductor diodes, magnetic computer and analogue computer, 1956
68	P23	Electronic motor control, push-pull magnetic amplifier and motor control, 1957
68	P24	1958
68	P25	Electronic motor control apparatus, 1959
68	P26	System for reproducing position and motor control, 1960-1963
68		Alexanderson letters in Swedish
		<i>Subseries - Patents (Mss A379 1975)</i>
69		Control Folder
69	1	Patent lists (all Alexanderson patents are listed by year and topic)

69	2	Patent drawings
69	3	Patents, 1905 - 1922
69	4	Patents, 1907 - 1916
69	5	Patents, 1908 - 1909
69	6	Patents, 1909 - 1911
69	7	Patents, 1912 - 1916
69	8	Patents, 1916 - 1919
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70	7	Foreign patents
		Series VI - Miscellaneous Professional and School Papers (Mss A379 1975)
71		Control Folder
71	1	Miscellaneous papers, memos, drawings and blueprints, n.d.
71	2	School pictures and drawings, Lund, Sweden, 1896
71	3	Graphs, tabulations and other work for Swedish electrical firm, Allmänna Svenska Elektriska Aktiebolaget, Summers 1899 and 1900
71	4	Notebooks, Berlin Technical University
71	5	Papers, Berlin Technical University
71	6	Lecture notes, Lutheran Conference, 1901
71	7	Small notebooks with addresses, expenses and work notes, 1920
71	8	Blueprints and drawings, C&C Co., Garfield, NJ and G.E.
71	9	Blueprints and drawings, ca. 1902
71	10	Materials on heat running of commutator, alternator reports, regulation of alternators, reverse current relays turbines, Robson & Adey notebook with sparse notes on ry motors, 1901 - 1902
71	11	Materials on induction motor variable number of poles, single phase ry system, Johnstown sub-station, and deflection turbine wheels under steam pressure controller, 1902? - 1903
71	12	Materials on winding of variable speed motor, notes to Patent Department, sketches, induction motor with variable number of poles, patent description and correspondence, 1902 - 1903
71	13	Binder, 1899 - 1903
71	14	Binder, July 1903 - 1908
71	15	Folder, 1909 - 1919
71	16	Folder, 1920 - 1921
71	17	Blueprints, Pan American Wireless, 1921
71	18	Blueprints, layouts, etc., RCA High Power Transmitting Division

71	19	Blueprints, layouts, etc., RCA High Power Transmitting Divison
71	20	Propositions, A.E.F.G. Brazil Stations, 1921
71	21	Propositions, A.E.F.G. Brazil Stations, 1921 (extra copies)
72	22	Proposition, A.E.F.G. 100,000 Meter Ampere Station, Rio de Janeiro, Brazil
72	23	Drawings, A.E.F.G. 100,000 Meter Ampere Station, Rio de Janeiro, Brazil
72	24	Proposition, A.E.F.G. 20,000 Meter Ampere Station, Para, Brazil
72	25	Proposition, A.E.F.G. 20,000 Meter Ampere Station, Para, Brazil
72	26	Folder, 1922 – 1928
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72	30	Folder, 1950s
72	31	Folder, 1960 – 1964
72	32	Folder, 1966 - 1975
72	33	Alexanderson discussion on a paper about radio telegraphy by Emil S. Meyer
72	34	Fort Nightly Club - Television
72	35	Paper on Gulliver's Travels and Pilgrim's Progress
72	A	Materials on aerial navigation, magnetic computer, receiver for color television, and cascade magnetic amplifier, 1952-1954
72	B	Materials on magnetic computer, electronic computer, and analogue computer, 1954-1955
72	C	Materials on aerial navigation, power transmission, electronic torque amplifier, magnetic and electric computer, 1955-1957
72	D	Materials on magnetic amplifier, motor system control, A-C locomotive, and electronic torque amplifier, 1958
72	E	Materials on adjustable speed drive, reversible drive with dynamic braking, adjustable speed drive, and electric control apparatus, 1959
72	F	Material on system of rectifier control, electric control apparatus and stability of position control, 1960 - 1961
72	G	Material on magnetic computer, electronic motor control and reversible motor control, 1961 – 1962
72	H	Material on reversible motor control system, adjustable speed motor control and electronic system for motor control, 1963 – 1966
72	I	Material on reversible and adjustable motor control, torque control of three-phase motor and motor torque control, 1967 - 1975
Box Number	Folder Number	Folder Contents
		Series VII – Miscellaneous drawings, diplomas, and photos
1		Unidentified rolled parchment (Polish)
1		Unidentified photos (7 items) <ul style="list-style-type: none"> • "EFA and [illegible], Flying Experiments," 2"x1" • Unidentified photo of man in bowler hat, 10"x8" • Unidentified photo of man in glasses, 10"x8" • Unidentified photo of street and buildings, 7"x9" • Unidentified photo of group of four people against brick wall, 6"x5" (2) • Same unidentified photo as above, double printed, 5"x10"

1		Large drawing, "Switchboard Arrangement"
1		Photo of Orville Wright, "First Aeroplane Flight"
1		News clipping from "Broadcasting," "Our Respects to Ernest Fredrik Werner Alexanderson"
1		Unidentified framed B/W sketch of man, 12"X10"
1		Photo of Anderson and Hoover, 7"X9"
1		Unidentified photo of Anderson with group of men surrounding telephone, 6"X8"
1		Photo of Thomas Edison, 7"X5"
1		Photo of Dr. Lee D. Farest's, "This is your life," May 1957, 4"X5"
1		Unidentified Alexanderson photos in envelope (3)
1		Unidentified award on parchment (Polish), 17"X10"
1		Package with photos of Jenny Lind (4)
1		Photo, "Delegates and Friends of the International Electrotechnical Commission," 1926
1		Large drawing, "Body Castings"
1		Unidentified graduate class album, 1896, 16"X13"
1		Sketch of building by Alexanderson, "Lunds Katedralskola," 1896
1		Sketch of leaf by Alexanderson, "Lunds Katedralskola"
1		Sketch of leaf in rectangle missing a corner by Alexanderson, "Lunds Katedralskola"
1		Honorary Doctor of Science degree from unidentified university, 1934 (2)
1		Certificate from the Society of the Sigma Xi, 1915
1		Certificate, "A Member of the State Commission to Participate in the Celebration of the Swedish Pioneer Centennial" from the State of New York, 1948
1		License of Professional Engineering from the State of New York, 1922
1		Certificate of membership from the Wings Club, Inc., 1945
1		Honorary Doctor of Science degree from Union College
		Series VIII - Personal Correspondence, 1902 – 1920 (Mss A379 1975)
1		Control Folder
1	1	1902, English (11 items)
1	2	1903, English (5 items)
1	3	1904, English (6 items)
1	4	1905, English (6 items)
1	5	1906 – 1907, English (5 items)
1	6	1909, English (3 items)
1	7	1919, English (2 items)
1	8	n.d., English (4 items)
1	9	Receipts, brochures and business cards (9 items)
1	10	February 16, 1901 – September 15, 1901, non-English (10 items)
1	11	September 16, 1901 – October 14, 1901, non-English (10 items)
1	12	October 22, 1901 – November 17, 1901, non-English (10 items)
1	13	November 24, 1901 – December 22, 1901, non-English (13 items)
1	14	January 5, 1902 – February 9, 1902, non-English (10 items)
1	15	February 16, 1902 – April 7, 1902, non-English (10 items)
1	16	April 13, 1902 – May 11, 1902, non-English (10 items)

1	17	May 18, 1902 – June 29, 1902, non-English (10 items)
1	18	July 6, 1902 – August 17, 1902, non-English (10 items)
1	19	August 24, 1902 – September 28, 1902, non-English (11 items)
1	20	October 5, 1902 – November 2, 1902, non-English (11 items)
1	21	November 9, 1902 – December 9, 1902, non-English (10 items)
1	22	December 12, 1902 – December 28, 1902, non-English (5 items)
1	23	1902 (no month or date), non-English (4 items)
1	24	January 4, 1903 – February 22, 1903, non-English (12 items)
1	25	February 27, 1903 – March 29, 1903, non-English (12 items)
1	26	April 5, 1903 – May 3, 1903, non-English (10 items)
1	27	May 24, 1903 – October 25, 1903, non-English (11 items)
1	28	November 1, 1903 – December 13, 1903, non-English (10 items)
1	29	December 20, 1903 – December 30, 1903, non-English (7 items)
1	30	January 3, 1904 – February 14, 1904, non-English (10 items)
1	31	February 18, 1904 – April 3, 1904, non-English (10 items)
2	1	April 10, 1904 – June 1, 1904, non-English (10 items)
2	2	June 5, 1904 – September 4, 1904, non-English (10 items)
2	3	September 9, 1904 – October 16, 1904, non-English (11 items)
2	4	October 24, 1904 – December 29, 1904, non-English (10 items)
2	5	January 1, 1905 – February 6, 1905, non-English (10 items)
2	6	February 7, 1905 – March 26, 1905, non-English (10 items)
2	7	April 2, 1905 – May 28, 1905, non-English (10 items)
2	8	June 11, 1905 – August 25, 1905, non-English (11 items)
2	9	September 2, 1905 – October 15, 1905, non-English (10 items)
2	10	October 22, 1905 – December 17, 1905, non-English (9 items)
2	11	January 25, 1906 – April 29, 1906, non-English (11 items)
2	12	June 6, 1906 – December 30, 1906, non-English (13 items)
2	13	1907, non-English (14 items)
2	14	January 8, 1908 – May 23, 1908, non-English (10 items)
2	15	June 1, 1908 – August 3, 1908, non-English (10 items)
2	16	August 10, 1908 – September 27, 1908, non-English (10 items)
2	17	October 10, 1908 – November 19, 1908, non-English (10 items)
2	18	November 22, 1908 – December 17, 1908, non-English (7 items)
2	19	January 1, 1909 – January 30, 1909, non-English (10 items)
2	20	February 4, 1909 – March 10, 1909, non-English (10 items)
2	21	March 15, 1909 – April 15, 1909, non-English (10 items)
2	22	May 18, 1909 – September 28, 1909, non-English (11 items)
2	23	October 18, 1909 – November 14, 1909, non-English (4 items)
2	24	1919-1920, non-English (5 items)
2	25	n.d., Folder 1 of 3
2	26	n.d., Folder 2 of 3
2	27	n.d., Folder 3 of 3
		Series IX - Ephemera
		Hat belonging to Alexanderson in original box, made in Sweden (Mss A379)
		Glass slides, unlabeled (Mss A379 1975)
		Series X – Miscellaneous Publications (Mss A379 1975)

1		Adams, Comfort A. "The Synchronous Motor." January, 1908; April, 1908; January 1909.
1		Alexanderson, E. F. W. "Height of airplane above ground by radio echo." December 14, 1928.
1		Alger, Philip L. "Using Hydrogen to Save Coal." Originally published April, 1944.
1		Alger, Philip L. Preface. September, 1968
1		Angevine, O. L., Jr. "Reliability of Transformers for Electronic Applications." September, 1959.
1		Armstrong, A. H. "The Development of the Electric Locomotive." May 29, 1924.
1		Atwell, C. A. and C. E. Baston. "Equipment for Turbine-Electric Locomotives." July, 1949.
1		Austin, Louis W. "The relation between atmospheric disturbances and wave length in radio reception." January 15, 1920.
1		Ayres, Eugene. "Social Attitude Toward Invention." Based on lectures from 1954-1955.
1		Baker, W. R. G. "Electronics at Peace." Original manuscript April 2, 1947.
1		Batson, Lawrence D., compiled by. "World Short-Wave Radiophone Transmitters." May 15, 1935.
1		Bealde, R. G. and B. P. Chausse. "Characteristics of Magnetic Amplifiers for Industrial Use." November, 1954.
1		Bedford, A. V. "Mixed Highs in Color Television." July 7, 1950.
1		Bello, Francis. "Color TV: Who'll Buy a Triumph?" November 1955.
1		Berg, Ernst J. "The Second Steinmetz Memorial Lecture." April 23, 1926.
1		Bergvall, R. C. "Series Resistance Method of Increasing Transient Stability Limit." June 25, 1930.
1		Beverage, H. H., C. W. Hansell and H. O. Peterson. "Radio Plant of R.C.A. Communications, Inc." August 30, 1932.
1		Beverage, H. H. "Horizontal versus vertical polarization for television." September 19, 1940,
1		Bitter, Francis. "Strong Magnets." April, 1962.
1		Black, H. S. et al. "A Multichannel Microwave Radio Relay System." August 26, 1946.
1		Black, R. A. "Prospectus on an electronic frequency changer of improved design for repetitive manufacture." February 25, 1948.
1		Bliss, W. L. "An Electric Car Lighting System." February 27, 1903.
1		Boothroyd, Wilson. "Dot Systems of Color." December, 1949.
1		Borgquist, W. "High Voltage D.C. Power Transmission." June 27, 1946.
1		Bown, Ralph, Melville Eastham and Donald G. Fink. "JTAC: Its Purpose and Program." September, 1948.
1		Boyajian, A. "The Physics of Long Transmission Lines." July, 1949.
1		Boyajian, A. and G. Camilli. "Overvoltages in Saturable Series Devices." June 19, 1951.
1		Boyajian, A. "The Magnetic Amplifier." N.d.
1		Bozorth, R. M. "Advances in the Theory of Ferromagnetism." June, 1949.
1		Brailsford, F. "Alternating Hysteresis Loss in Electrical Sheet Steels." March, 1939.
1		Brecht, W. A. and Charles Kerr, Jr. "Electric Locomotives with Identical Basic Components." November 12, 1947.

1		Brooks, Morgan and H. M. Turner. "Inductance of Coils." January 8, 1912.
1		Brown, M. J. "Automatic Control of Large Synchronous Condensers." August, 1946.
1		Buechler, L. W. "Magnetic Amplifiers for Shipboard Applications." January, 1949.
1		Buell, R. C. et al. "Governor Performance During System Disturbances." November 19, 1930.
1		Bullington, Kenneth. "Radio Propagation at Frequencies Above 30 Megacycles." December 23, 1946.
1		Clarke, Edith. "Steady-State Stability in Transmission Systems." February 8, 1926.
1		Clarke, Edith. and S. B. Crary. "Stability Limitations of Long-Distance A-c Power-Transmission Systems." 1941.
1		Cobine, J. D. et al. "High-Frequency Excitation of Iron Cores." January 9, 1947.
1		Collins, E. F. "Technical Report: GEI 506- A- 500 V.- 25 Cycle Three Phase Railway Induction Motor." December 17, 1908.
1		Compton, Karl T. "Engineering and Social Progress." September 19, 1939.
1		Conant, S. S. "The Girdle Round the Earth." August, 1865.
1		Conrath, J. R. "The Use of Selenium Rectifiers in Self-Saturating Magnetic Amplifiers." January, 1952.
1		Coolidge, W. D. "A Tribute to Irving Langmuir." August 18, 1957.
1		Coolidge, W. D. "Science and Its Social Implications." N.d.
1		Coolidge, William D. "Research and Invention." January 16, 1939.
1		Coolidge, William D. "Seventy Years of Physical Science." May, 1942.
1		Cramer, F. W., L. W. Morton and A. G. Darling. "The Electronic Convertor for Exchange of Power." April 28, 1944. (2 copies.)
1		Crary, S. B. "Long-Distance Power Transmission." June 12, 1950.
1		Crary, S. B. "Long-Distance Power Transmission." N.d.
1		Crary, S. B. "Progress and Trends in High-Voltage Transmission." May, 1951.
1		Crary, S. B. and I. B. Johnson. "Economics of Long-Distance A-C Power Transmission." May, 1947.
1		Crary, S. B., R. M. Butler and D. P. Inwood. "An Economic Evaluation of Compensation Methods for a 300-Mile Transmission System." October 20, 1950.
1		Danielson, Ernst. "Patentbeschreibung." May 26, 1906.
1		Danielson, Ernst. "Resonansfenomen vid stromkretsar, matade af alternatorer med tandad armatur." 1904.
1		Danielson, Ernst. "Kaskadenschaltungen bei Motoren fur Walzwerke." 1904.
1		Darling, A. G. (prepared by). "Maximum Short-Circuit Current of D-C Motors and Generators." November 1949.
1		Dennis, F. R. and E. P. Felch. "Reactance Tube Modulation of Phase Shift Oscillators." October, 1949.
1		Doherty, Robert E. "Engineering Education and Democracy." September, 1937.
1		Dornhoefer, W. J. "Self-Saturation in Magnetic Amplifiers." November, 1949.
1		Dreher, Carl. "E. H. Armstrong: the Hero as Inventor." April, 1956.
1		Duff, C. K. "Telemetering Systems and Channels for a Large Interconnected Power System." September, 1951.
1		Durand, W. F. "Biographical Memoir of Harris Joseph Ryan." 1938.
1		Dwight, H. B. "Transmission Systems with Over-Compounded Voltages." Feb 8,

		1926.
1		Early, J. M. "Design Theory of Junction Transistors." September 8, 1953.
1		Eichberg, Friedrich. "Der Stand der elektrischen Vollbahnen." March 14, 1908.
1		Elliott, J. Richard, Jr. "Spark of Life?" October 26, 1962.
1		Espenschied, Lloyd. "Radio Transmission in Relation to Aeronautics." N.d.
1		Evans, Llewellyn. "Power Costs and the Contribution of Existing Transmission Networks towards Cost Reduction of Power for Electrification of Main Line Railroads with Moderate Traffic." December, 1947.
1		Farnsworth, Arthur J. "An Axle Light System of Train Lighting." February 27, 1903.
1		Felix, Fremont. "What Is the Amplidyne? How Does It Work?" August, 1943.
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1		Finzi, L. A. and R. A. Mathias. "Magnetic Amplifier Performs Analytical Operations." December, 1953.
1		Fisher, Alec. "The Design Characteristics of Amplidyne Generators." November 8, 1939. (2 copies)
1		Fite, Robert C. "Germanium, a Secondary Metal of Primary Importance." January, 1954.
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1		Geiger, Allen and George Hopkins, Jr. "A Reappraisal of the Aims and Purposes of Eta Kappa Nu." Fall, 1955.
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1		Geyger, W. A. "Magnetic Amplifiers of the Balance Director Type – Their Basic Principles, Characteristics, and Applications." December, 1949.
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1		Gibbons, Floyd. "Out of the House of Magic." September 6, 1930.
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1		Goldsmith, Alfred N. and Edward T. Dickey. "Radio Taste Reception." January 12, 1920.
1		Gould, H. L. B. "Magnetic Cores of Thin Tape Insulated by Cataphoresis." June, 1950.
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1		Happ, H. H., ed. "Gabriel Kron and Systems Theory." 1973

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1		Hawkins, L. A. "University or Industry?" April, 1945.
1		Hawkins, L. A. "Ductile Tungsten in Peace and War." January 25, 1943. (2 copies)
1		Hawkins, L. A. "Our Debt to Josphus Daniels." August, 1943.
1		Hawkins, L. A. "Wartime Electrical Research." June 22, 1942.
1		Hawkins, L. A. "The Problems We Face." November 26, 1945.
1		Hawkins, L. A. "William D. Coolidge." May, 1940.
1		Hawkins, L. A. "Research and the Public." September, 1927.
1		Hawkins, L. A. "Collective Bargaining and the Engineer." April, 1944.
1		Hawkins, L. A. "Finishing the Job." May, 1942.
1		Hawkins, L. A. "Towards a New Generation of Scientists." August, 1945.
1		Hawkins, L. A. "Does Patent Consciousness Interfere With Cooperation Between Industrial and University Research Laboratories?" March 28, 1947.
1		Hawkins, L. A. "Regimentation of Science." June 26, 1943.
1		Hemmes, R. T. "Progress Report on Transmission Line Voltage Control by Saturable Shunt Reactors." November 16, 1950.
1		Henning, Bo. "Observations of Corona Losses and Radio Disturbances from High Tension D. C. Lines with Heavy Conductors." June 27, 1946.
1		Herlitz, Ivar and Niels Knudsen. "Economic Comparison between Devices for Stabilizing Long Transmission Lines." February 3, 1950.
1		Herskind, C. C. "New Types of D-C Transformers." February 10, 1937.
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1		Hinman, W. S., Jr. and Cleo Brunetti. "Radio Proximity-Fuze Development." February 25, 1946.
1		Hobart, H. M. "Review of Professor Erwin Marx's Book on 'Arc Valves.'" May 22, 1933.
1		Hull, A. W. "Fundamental Processes in Gaseous Tub Rectifiers." August, 1950.
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1		Hutchinson, Cary T. "The Electric System of the Great Northern Railway Company at Cascade Tunnel." November 12, 1909.
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1		Johnson, L. J. and H. G. Schafer. "A Magnetic Amplifier Frequency Control." December, 1949.
1		Johnson, Walter C. and Frank W. Latson. "An Analysis of Transients and Feedback in Magnetic Amplifiers." December, 1949. (2 copies)
1		Kallmann, Heinze E. "Nonlinear Circuit..." August, 1946.
1		Kell, R. D. "An Experimental Simultaneous Color-Television System." June 10, 1947.
1		Kern, Von E. "Der kommutatorlose Einphasen-Lokomotivmotor fur 40 bis 60 Hertz." November, 1931.
1		Kerr, Charles, Jr. "The Economic Factors Which Influence Dieselization and

		Electrification." June 25, 1951.
1		Kock, Winston E. "Metallic Delay Lenses." N.d.
1		Koppelmann, Floris. "Der Kontaktumformer." January 2, 1941. (2 copies)
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1		Kron, Gabriel. "The Universe and Other Matters." N.d.
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1		Lawton, F. L. "Scandinavia: As Seen by a Canadian Hydroelectric Engineer." December, 1948.
1		Leigh, H. H. "Simplified Thyatron Motor Control." September, 1946.
1		Leonhard, Werner. "Control of Reversible Induction Motor Drives." September, 1959.
1		Lesk, I. A. and J. J. Suran. "Tunnel Diode Operation and Application." April, 1960.
1		Lessing, Lawrence P. "The Late Edwin H. Armstrong." N.d.
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1		Lobl, Oskar. "Bahnumrichter System Lobl/RWE." N.d.
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1		McClure, F. N. "Application of Magnetic Amplifiers." June, 1950.
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1		Markman, Fredrik. "Assessment of Transmission Properties of Telephone Instruments Based on Articulation Tests." N.d.
1		Marti, Othmar K. "A Railway Motor Without Commutator." September, 1932.
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1		Mayes, Thorn. "Brief History of the United Wireless Telegraphic Co." 1912.
1		Mellor, A. G. "Power Generation by Gas Turbines." July, 1951.
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1		Meyer-Delius. "Die Strom- und Spannungsverhältnisse in Anlagen zur

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1		Morey, A. H. "A Résumé of the Gas Turbine-Electric Locomotive." March, 1951.
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1		Norman, Carl A. "An American Religion and a Statement of Faith." August, 1945.
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1		Norman, Carl A. "The Hand of Providence in Human Evolution." N.d.
1		Northrup, Edwin F. and R.G. Thompson. "The Losses in Cables at High Frequencies." July, 1916
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