

Edward Lindley Bowles Papers

A Finding Aid to the Collection in the Library of Congress

Prepared by Bradley E. Gernand with the
assistance of Patrick M. Kerwin and John R.
Monagle



Manuscript Division, Library of
Congress

Washington, D.C.

2010

Contact information: <http://hdl.loc.gov/loc.mss/mss.contact>

Finding aid encoded by Library of
Congress Manuscript Division, 2010

Finding aid URL: <http://hdl.loc.gov/loc.mss/eadmss.ms010308>

Collection Summary

Title: Edward Lindley Bowles Papers

Span Dates: 1869-1990

Bulk Dates: (bulk 1920-1982)

ID No.: MSS67993

Creator: Bowles, Edward Lindley, 1897-1990

Extent: 32,200 items; 92 containers plus 1 classified; 36.8 linear feet

Language: Collection material in English

Repository: Manuscript Division, Library of Congress, Washington, D.C.

Abstract: Inventor, engineer and educator. Correspondence, memoranda, diaries, manuscripts, speeches, transcripts of recorded recollections, reports, minutes, subject files, notes, legal documents, printed material, photographs, and other papers relating primarily to Bowles's career as an engineer and consultant in private industry and in government, his association with research universities, and work relating to the securing and defense of patents.

Selected Search Terms

The following terms have been used to index the description of this collection in the Library's online catalog. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically therein.

People

Adams, Charles F. (Charles Francis), 1866-1954--Correspondence.

Alexanderson, Ernst Fredrik Werner, 1878-1975.

Archer, Gleason Leonard, 1880-1966. Gleason Leonard Archer papers.

Armstrong, Edwin H. (Edwin Howard), 1890-1954.

Arnold, Henry Harley, 1886-1950--Correspondence.

Bowen, Harold Gardiner, 1883-1965--Correspondence.

Bowles, Edward Lindley, 1897-1990.

Bush, Vannevar, 1890-1974--Correspondence.

Bush, Vannevar, 1890-1974.

Cady, Walter G. (Walter Guyton), 1874-1974.

Calosi, Carlo Luigi, 1905-1997--Correspondence.

Calosi, Carlo Luigi, 1905-1997.

Campbell, George A. (George Ashley), 1870-1954. George A. Campbell papers.

Compton, K. T. (Karl Taylor), 1887-1954.

Draper, C. S. (Charles Stark)

Guillemin, Ernst A. (Ernst Adolph)

Hayes, Hammond Vinton, 1860-1947. Hammond Vinton Hayes papers.

King, Ernest Joseph, 1878-1956.

Loomis, Alfred L. (Alfred Lee), 1887-1975--Correspondence.

Morison, Samuel Eliot, 1887-1976.

Nicholson, Alexander McLean.

Pierce, George Washington, 1872-1956.

Rines, David, 1884-1978.

Stratton, Julius Adams, 1901-1994--Correspondence.

Watson-Watt, Robert Alexander, Sir, 1892-1973--Correspondence.

Watson-Watt, Robert Alexander, Sir, 1892-1973.

Yarnell, Harry E. (Harry Ervin), 1875-1959. Harry E. Yarnell papers.

Organizations

Bell Telephone Company.

Bentley College.

Kodály Musical Training Institute.

Massachusetts Institute of Technology.
Massachusetts Institute of Technology. Round Hill Research Division.
Massachusetts Institute of Technology. School of Industrial Management.
Project Rand (United States. Air Force)
Radio Corporation of America.
Rand Corporation.
Raytheon Company.
Raytheon Company. Submarine Signal Division.
Samson Electric Company.
Sloan School of Management.
Sperry Gyroscope Company, inc.
Stockton Profile Gauge Corporation.
United Artists Corporation.
United States. Council of National Defense. National Defense Research Committee.
United States. Dept. of Defense.
United States. Office of Scientific Research and Development. National Defense Research Committee.
United States. Office of Scientific Research and Development. National Defense Research Committee. Radiation Laboratory.
United States. War Dept.
White Consolidated Industries.
Whitin Machine Works (Whitinsville, Mass.)

Subjects

Anti-submarine warfare.
Electrical engineering--Study and teaching.
Electrical engineering.
Korean War, 1950-1953.
Military research.
Military weapons.
Patents.
Radar.
Strategy.
Telephone systems.
Television frequency allocation.
Torpedoes.
Universities and colleges--Massachusetts.
World War, 1939-1945.

Places

Westphalia (Mo.)--Social life and customs.

Occupations

Educators.
Engineers.
Inventors.

Administrative Information

Provenance

The papers of Edward Lindley Bowles, inventor, engineer and educator, were given to the Library of Congress by him in 1972 and 1988-1989. An addition was received from a family member in 1992.

Processing History

The collection was processed in 1993. The finding aid was revised in 2010.

Transfers

Sound and video recordings have been transferred to the Library's Motion Picture, Broadcasting, and Recorded Sound Division where they are identified as part of these papers.

Copyright Status

Copyright in the unpublished writings of Edward Lindley Bowles in these papers and in other collections of papers in the custody of the Library of Congress has been dedicated to the public.

Access and Restrictions

Restrictions apply governing the use, photoduplication, or publication of items in this collection. Consult a reference librarian for information concerning these restrictions.

Security Classified Documents

Government regulations control the use of classified material in this collection. Manuscript Division staff can furnish information concerning access to and use of classified items.

Preferred Citation

Researchers wishing to cite this collection should include the following information: Container number, Edward Lindley Bowles Papers, Manuscript Division, Library of Congress, Washington, D.C.

Biographical Note

<i>Date</i>	<i>Event</i>
1897, Dec. 9	Born, Westphalia, Mo.
1918	United States Army, Camp Zachary Taylor, Ky., and Fort Sheridan, Ill.
1920	B.S., Washington University, St. Louis, Mo.
1921-1922	Radio editor, <i>Boston Evening Transcript</i> , Boston, Mass.
1922	Married Lois Wuerpel M.S., Massachusetts Institute of Technology, Cambridge, Mass.
1922-1925	Assistant instructor, Massachusetts Institute of Technology, Cambridge, Mass.
1925-1927	Assistant professor, Massachusetts Institute of Technology, Cambridge, Mass.
1926-1937	Director, Round Hill Research Division, Massachusetts Institute of Technology, South Dartmouth, Mass.
1927-1937	Associate professor, Massachusetts Institute of Technology, Cambridge, Mass.
1937-1947	Professor, Massachusetts Institute of Technology, Cambridge, Mass.

1940-1942	Secretary, Microwave Committee, National Defense Research Committee, Cambridge, Mass.
1942-1947	Leave of absence, Massachusetts Institute of Technology Consultant to secretary of war
1943-1947	Consultant to commanding general, United States Army Air Forces
1945	D.Sc., Norwich University, Northfield, Vt. Distinguished Service Medal, United States Army Air Forces
1947-1957	Scientific consultant, United States Air Force
1947-1963	Consulting professor, Massachusetts Institute of Technology, Cambridge, Mass.
1947-1966	General consultant to president, Raytheon Co., Waltham, Mass.
1948	Honorary commander, civil division, Most Excellent Order of the British Empire Presidential Medal of Merit
1950-1952	Scientific warfare adviser, Weapons Systems Evaluation Group, Office of the Secretary of Defense
1951-1954	Consultant to secretary of the army
1955-1958	Chairman, Ad Hoc Advisory Committee on [television] Allocations, Senate Committee on Interstate and Foreign Commerce
1959-1964	Director, Scientific Development Corp., Watertown, Mass.
1963-	Professor emeritus, Massachusetts Institute of Technology, Cambridge, Mass.
1964-1967	Consultant and special assistant to president, Analex Corp., Boston, Mass.
1965-1966	Director, Jarrell-Ash Co., Waltham, Mass.
1965-1966	President, Whitin Machine Works, Whitinsville, Mass.
1965-1968	Consultant, director, Anderson-Nichols & Co., Boston, Mass.
1966-1977	Director, White Consolidated Industries, Cleveland, Ohio
1968-1970	Chairman of the board and president, Information Transfer Corp., Wellesley, Mass.
1969-1977	Director, Bentley College, Waltham, Mass.
1970-1974	Director, Kodály Musical Training Institute, Wellesley, Mass.

1981- Trustee, Newton-Wellesley Hospital, Newton, Mass.
1990, Sept. 9 Died, Weston, Mass.

Scope and Content Note

The papers of Edward Lindley Bowles (1897-1990) span the years 1869-1990, with the bulk of the items concentrated in the period 1920-1982. Every aspect of Bowles's life is documented extensively by these papers except for the time during which he directed the Massachusetts Institute of Technology's (M.I.T.) research station in South Dartmouth, Massachusetts, for which there is relatively little record, and the last years of his life during which he suffered from Parkinson's disease.

Bowles was an inventor, educator, and consultant. He was associated with academic institutions, corporations, and government, often simultaneously. His scientific interests were focused, but the ways in which he manifested these interests were diverse. His papers, reflecting this diversity, are grouped into nine series: [Correspondence File](#), [Subject File](#), [Corporate File](#), [Government File](#), [University File](#), [Patent File](#), [Oral History File](#), [Writings File](#), and [Classified](#).

Incoming and outgoing correspondence of a general nature make up the [Correspondence File](#), including a reading file of outgoing material documenting more than two decades of Bowles's life.

The [Subject File](#) consists of a broad range of information not confined to any one institution, activity, or time in Bowles's life. There are files for Vannevar Bush and Carlo Luigi Calosi, each mentioned elsewhere in these papers, but each of whom Bowles knew in more than one institution or activity. There are also files regarding the Italian magnetic torpedo (Siluro Italiano Calosi) of World War II, Samuel Eliot Morison, David Rines, and Sir Robert Alexander Watson-Watt. Also, these files contain papers of Gleason Leonard Archer, president of Suffolk University; George A. Campbell, a prominent early inventor in telephone communications; Hammond Vinton Hayes, former chief engineer of American Telephone and Telegraph Company; and Admiral Harry E. Yarnell's activities during World War II.

Bowles's ties to the corporate world began while he was a student at M.I.T. and became extensive after World War II, when he became general consultant to the president of Raytheon Company and president of Whitin Machine Works. He also served as consultant to or on the boards of directors of other firms. The [Corporate File](#) holds material concerning all such interests, but the documentation concerning Raytheon and Whitin is the most extensive. Principal correspondents in the Raytheon papers include Charles F. Adams (1866-1954), and Calosi. The principal subjects include direction and governance of the company, its research aims, and the Submarine Signal Division. There are many handwritten notes from Adams, who was president of Raytheon during Bowles's tenure. Whitin Machine Works was purchased by White Consolidated Industries, to whose board of directors Bowles was then appointed. The Whitin papers document the end of Whitin as an independent company and the affairs of White from Bowles's perspective on the governing board, as well as the affairs of subsidiaries White Motor Company, J.D. Ferry Company, and American Type Founders Company.

Bowles served the federal government in numerous capacities, most notably as consultant to the War Department during World War II, scientific warfare advisor to the secretary of war during the Korean conflict, and as chair of a United States Senate ad hoc advisory committee on television frequency allocations. Additionally, he served on the National Defense Research Committee, or NDRC (later part of the Office of Scientific Research and Development, or OSRD), and on a congressional ad hoc committee on reforming the patent system. Papers regarding all of these ventures are found in the [Government File](#). Bowles's work in the War Department during World War II is well represented and features correspondence with Henry Harley Arnold, Harold Gardner

Bowen, Vannevar Bush, Alfred L. Loomis, and Watson-Watt concerning the development and deployment of radar, the United States Air Force's Project RAND and its evolution into Rand Corporation, antisubmarine warfare, and the temperament and tactics of Ernest Joseph King, as well as scientific research efforts in general. The armed forces retained Bowles's services through the late 1950s, and correspondence and reports reflect his concern for battle effectiveness, prevailing military strategies, research methodology, unification of the armed forces, and weapons development.

The [University File](#) documents Bowles's associations with Washington University and M.I.T., and two institutions he served as director, Bentley College and Kodály Musical Training Institute. M.I.T.'s development is reflected in correspondence with Julius Adams Stratton and other contemporaries. Files concern M.I.T.'s Round Hill research division and the Edward H. R. Green estate on which it was located, electrical engineering laboratory and courses, Sloan School of Industrial Management, the NDRC radiation lab, and Vannevar Bush, K. T. Compton, C. S. Draper, and Ernst A. Guillemin.

The [Patent File](#) documents Bowles's activities as a private consultant for companies and individuals securing or defending patents, including the Radio Corporation of America, Samson Electric Company, Sperry Gyroscope Company, Stockton Profile Gauge Corporation, United Artists Corporation, and Ernst Fredrik Werner Alexanderson, Edwin H. Armstrong, Walter G. Cady, Alexander McLean Nicholson, and George Washington Pierce. Correspondence in this file contains information regarding patent applications and research in general. A companion subseries contains Bowles applications and assignments. Interferences, or challenges to applications, are filed as part of the contested applications.

The [Oral History File](#) consists of transcripts of Bowles's recollections. These recollections were recorded between 1979 and 1984 and primarily concern his years in Westphalia, Missouri, M.I.T., Bell Telephone Company and the development of telephone communication, World War II, Henry Harley Arnold, Vannevar Bush, Henry L. Stimson, NDRC, OSRD, and Project RAND.

The [Writings File](#) consists of articles, newspaper columns, and speeches by Bowles concerning various subjects.

Arrangement of the Papers

The collection is arranged in nine series:

- [Correspondence File, 1942-1988](#)
- [Subject File, 1869-1990](#)
- [Corporate File, 1920-1987](#)
- [Government File, 1930-1988](#)
- [University File, 1918-1988](#)
- [Patent File, 1872-1989](#)
- [Oral History File, 1979-1984](#)
- [Writings File, 1922-1966](#)
- [Classified](#)

Description of Series

<i>Container</i>	<i>Series</i>
BOX 1-4	<u>Correspondence File, 1942-1988</u> General correspondence and a reading file of outgoing correspondence. Arranged chronologically.
BOX 5-16	<u>Subject File, 1869-1990</u> Correspondence, legal documents, manuscripts, newspaper clippings, notes, photographs, publications, reports, speeches, and other papers. Arranged alphabetically by subject or type of material.
BOX 17-27	<u>Corporate File, 1920-1987</u> Correspondence, legal documents, memoranda, minutes of meetings, notes, office diaries, photographs, and reports regarding the numerous companies in which Bowles held a financial interest or for which he consulted. Arranged alphabetically by corporate title and thereunder by type of material.
BOX 27-48	<u>Government File, 1930-1988</u> Awards and commendations, correspondence, diaries, memoranda, minutes of meetings, notes, photographs, reports, and research proposals regarding the agencies, committees, and departments for which Bowles consulted. Arranged alphabetically by agency or organization and thereunder by type of material.
BOX 49-63	<u>University File, 1918-1988</u> Correspondence, legal documents, memoranda, minutes of meetings, notes, office diaries, publications, reports, subject files, and teaching notes regarding the academic institutions with which Bowles was affiliated as a student, instructor, or as a director. Arranged alphabetically by institutional name and thereunder by type of material.
BOX 64-84	<u>Patent File, 1872-1989</u> Correspondence, court documents, and miscellaneous material concerning patents and inventions and the applications and assignments of patents entered by Bowles and others. Arranged in the following groupings: applications, assignments, consultantships, general correspondence, and miscellany, and thereunder alphabetically by corporate or personal name, subject, or type of material.
BOX 84-90	<u>Oral History File, 1979-1984</u> Transcripts of recorded recollections by Bowles. Arranged as numbered transcripts, in two separate series, and miscellaneous, unrelated transcripts. Transcript numbers are preceded by the letters W, T, or J, bearing no relation to the numbering, which is sequential.

BOX 90-92

Writings File, 1922-1966

Articles, papers, and a report by Bowles.

Arranged by format and thereunder chronologically.

BOX CL 1

Classified

Correspondence, notes, reports, and miscellany.

Arranged and described according to the series and folders from which the material was removed.

Container List

<i>Container</i>	<i>Contents</i>
BOX 1-4	Correspondence File, 1942-1988 General correspondence and a reading file of outgoing correspondence. Arranged chronologically.
BOX 1	General, 1942-1988, undated (3 folders) Reading File 11 Dec. 1947-3 June 1952 (3 folders)
BOX 2	11 June 1952-22 Apr. 1957 (6 folders)
BOX 3	26 Apr. 1957-24 Oct. 1961 (6 folders)
BOX 4	24 Oct. 1961-17 Mar. 1968 (7 folders)
BOX 5-16	Subject File, 1869-1990 Correspondence, legal documents, manuscripts, newspaper clippings, notes, photographs, publications, reports, speeches, and other papers. Arranged alphabetically by subject or type of material.
BOX 5	A. C. Cossor, Ltd., 1963-1964 Academy of Applied Science, 1963-1975 Air War College National Security Forum, 1957 Albano, Louis S., 1966-1978 Alidade, 1967 American Academy of Arts and Sciences, 1953-1959 American Institute of Electrical Engineers, 1943-1958 Archer, Gleason Leonard Correspondence with Bowles, 1952-1964, undated Personal papers, 1915-1939 Beta Instrument Corp., 1968-1973 Biographical information, 1897-1974 Black, Harold S., 1956 Bowen, Harold G., 1959-1967 Bowles, Frederick Wuerpel, 1949 Bowles, Samuel Addison, 1883 Bush, Vannevar Correspondence, 1933-1985 Miscellaneous, undated
BOX 6	<i>Pieces of the Action</i> , annotated by Bowles, 1970 Campbell, George Ashley Correspondence, 1891-1970, undated

Subject File, 1869-1990

<i>Container</i>	<i>Contents</i>
	Files regarding loaded lines and loading (telephone systems), circa 1922 (4 folders)
BOX 7	(6 folders)
	Manuscript regarding loading (telephone systems) Original copy, 1938 Revised copy, 1938
BOX 8	Manuscripts by Bowles, undated Miscellaneous, 1904-1983, undated Notes By Bowles, undated (2 folders) Regarding Michael Idvorsky Pupin, 1899-1901, 1911, 1917, undated
	Patents Campbell Nos. 729709-1671143 (2 folders)
BOX 9	Interference No. 20699 Briefs, 1902 (3 folders)
BOX 10	Record, 1902 (2 folders)
BOX 11	(2 folders) Pupin, Michael Idvorsky, Nos. 519346-1561278
	Cerow, Gordon D., 1944-1949
BOX 12	Cosmos Club, Washington, D.C., 1942-1966 Currency and coins, 1928-1944 Curtis, Edward P., 1956 Dreher, Carl, 1959-1962 Ellyard, David, 1983 Gibson, Tom L., 1950-1955, 1963 Guns, 1969 Hale, Mary Margaret Griffith, 1968-1978 Hargrove, Thomas, 1949-1951 Hayes, Hammond Vinton Biographical information, undated Career at American Telephone and Telegraph Co., 1907, undated Correspondence From Bowles to Hayes, 1922-1970, undated From Hayes, 1895-1946 Last will and testament and estate, 1946-circa 1948 Notes by Bowles, 1947, undated Patents, 1888-1900 Speeches, 1914, undated Writings About Hayes, 1885-1920 By Hayes, 1922-1948
BOX 13	Hodgins, Eric, 1932

BOX 14

Institute of Electrical and Electronics Engineers, 1962-1969
Institute of Radio Engineers, 1947-1961
Interviews with Bowles
 Green, Murray, 1966-1971
 (2 folders)
 Norberg, Arthur L., 1977-1982
 (2 folders)
 Pang, Alex, 1986
 Romanowski, Roslyn Rachel, 1982
 Thompson and Harris, Signal Corps Historical Division, Army Air Corps,
 1958
Investments, 1929-1954
Iron Cross, 1938
Italian magnetic torpedo (Siluro Italiano Calosi), undated
Johnson, Elvira Fouke, 1869
Kline, Frank R., Jr., 1978-1987
Legal documents, 1945-1946
Litton Industries, 1956-1962
Ludwig, Warren, 1952-1965
Marshall, Lawrence K., 1947-1980
McKinney, John B., 1961
Moors & Cabot, 1949, 1967-1979, undated
Morison, Samuel Eliot, 1947-1948, 1986, undated
Necrologies, 1940-1978
Newcomen Society in North America, 1966
Newspaper and magazine clippings, 1948-1963, undated
Norwich University, Northfield, Vt., 1945-1947
Notes by Bowles, 1940-1959, undated
Ordman, Theodore, 1950-1951
Pang, Alex, 1986-1990
Personal papers, disposition of, 1963-1982
Photographs
 Bowles, circa 1920-1985
 Others, circa 1900-1965
Radar, paper by F. Ross Tilghman, 1980-1981
Radiation Research Corp., 1964-1965
Radio in aircraft, 1947, undated
Radio Technical Commission for Aeronautics, 1955
Ratliff, William Hardy, 1949-1953
Rines, David, 1944-1986
Rines, Robert H., 1960-1986, undated
Rowe, Hartley, 1908, 1958-1966
Saint Botolph Club, Boston, Mass., 1941-1943, 1949-1959, 1966-1967
Sarnoff, David, 1916-1924, 1939, 1950-1956, undated
Sealed Air Corp., 1966-1967
Shockley, William, 1947-1951, 1960, 1966-1968, undated
Simon, Leslie Earl, 1954-1956

BOX 15

Subject File, 1869-1990

Container Contents

	Smith, Bruce L. R., 1966-1967, undated
	Smith, Richard H., 1948-1949
	Spread-spectrum communications, 1983
	Süsskind, Charles, 1977
	Thomas Alva Edison Foundation, 1951-1952
	Truscott, D. N., 1954-1956
	University Club, Washington, D.C., 1942-1948
	von Recklinghausen, Daniel R., 1960
	Warner, Sam Bass, Jr., 1982-1985
	(2 folders)
BOX 16	Watson-Watt, Robert Alexander, 1947-1951, 1957-1960, undated
	Wellesley Club, Wellesley, Mass., 1935, 1942
	Western Union Telegraph Co., 1949
	Westphalia, Mo., 1985
	Winnecker, Rudolph August, 1947-1977, undated
	World War I, 1918
	Yarnell, Harry E., 1942-1943, undated
BOX 17-27	Corporate File, 1920-1987
	Correspondence, legal documents, memoranda, minutes of meetings, notes, office diaries, photographs, and reports regarding the numerous companies in which Bowles held a financial interest or for which he consulted.
	Arranged alphabetically by corporate title and thereunder by type of material.
BOX 17	Advanced Space Age Products
	Correspondence, 1969-1970
	Memoranda, 1970
	Anelex Corp., 1965-1966
	(2 folders)
	Anderson-Nichols & Co., 1965-1967
	Automated Electric Co., 1945-1946, undated
	Bausch & Lomb Optical Co., 1956-1958
	Boston Educational Research Co., 1970-1980
	Information Transfer Corp., 1968
	Jarrell Ash Co., 1965-1966
	Lockheed Aircraft Corp.
	Correspondence, 1953-1955
	Miscellaneous, undated
	(1 folder)
BOX 18	(1 folder)
	Notes, undated
	Philco Corp., 1957-1963, undated
	Raytheon Co.
	Correspondence
	1926-1952
	(5 folders)

Corporate File, 1920-1987

<i>Container</i>	<i>Contents</i>
BOX 19	1953-1987, undated (6 folders)
BOX 20	Historical file, 1927-1987, undated (3 folders) Interoffice memoranda Aug. 1940-Sept. 1948 (2 folders)
BOX 21	Oct. 1948-July 1959 (5 folders)
BOX 22	Aug. 1959-Apr. 1972, undated (3 folders) Miscellaneous General, 1947-1948 Spencer, Percy LeBaron, 1920-1959, undated Technical Planning Commission, 1949-1950, undated Notes, undated (1 folder)
BOX 23	(2 folders) Office diaries, 1950-1964, undated Photographs, 1959-1963, undated Reading file, Sept. 1946-Dec. 1952 (3 folders)
BOX 24	Reports, 1947-1963, undated (3 folders) Samson Electric Co., 1923-1928, undated Scientific Development Corp. Mar. 1959-Dec. 1962 (2 folders)
BOX 25	Jan. 1963-Jan. 1964, undated Societe des accumulateurs fixes et de traction, 1936-1963, undated Sperry Gyroscope Co., 1938-1971, undated (2 folders) Whitin Machine Works and White Consolidated Industries Correspondence Dec. 1961-Sept. 1965 (3 folders)
BOX 26	Oct. 1965-Mar. 1987 (3 folders) Interoffice memoranda, 1965-1966 Legal documents, 1965-1976 Minutes of meetings, 1964-1979 (2 folders)
BOX 27	Miscellaneous, 1965-1970, undated Notes, undated Office diaries, 1965-1976

	Photographs, undated
BOX 27-48	Government File, 1930-1988 Awards and commendations, correspondence, diaries, memoranda, minutes of meetings, notes, photographs, reports, and research proposals regarding the agencies, committees, and departments for which Bowles consulted. Arranged alphabetically by agency or organization and thereunder by type of material.
BOX 27	Ad Hoc Advisory Committee on Allocations Correspondence, Dec. 1953-Oct. 1971, undated (3 folders) Diary, 1955-1959, undated Interoffice memoranda, 1949-1960, undated Miscellaneous, 1956-1960, undated Notes, undated (1 folder)
BOX 28	(3 folders) Reports, 1950-1958, undated Ad Hoc Committee on the Patent System Correspondence, 1963-1965, undated Memoranda, 1963 Minutes of meetings, 1963 Miscellaneous, undated Notes by Bowles, undated
BOX 29	Reports, 1963-1964, undated Central Intelligence Agency, 1951-1952, undated Committee on Airport Study, 1941 Defense Department Awards and commendations, 1942-1973, undated (2 folders) Chronological file July 1942-Jan. 1943 (3 folders)
BOX 30	Feb. 1943-Dec. 1944 (9 folders)
BOX 31	Jan. 1945-Aug. 1947 (6 folders) Correspondence May 1940-Jan. 1943 (2 folders)
BOX 32	Feb. 1943-June 1944 (7 folders)
BOX 33	July 1944-Mar. 1945 (8 folders)
BOX 34	Apr. 1945-Aug. 1946 (8 folders)

Government File, 1930-1988

<i>Container</i>	<i>Contents</i>
BOX 35	Sept. 1946-Apr. 1948 (7 folders)
BOX 36	May 1948-June 1985 (7 folders)
BOX 37	Undated Historical file, 1940-1986, undated Miscellany General, 1930-1988, undated Kaplan, Fred, <i>The Wizards of Armageddon</i> , annotated by Bowles, 1983 "The Past Predicts the Future," by Henry Harley Arnold, 1946
BOX 38	Thompson, Browder Julian, Jr., 1938-1956 (3 folders) Notes, 1940-1958, undated (2 folders) Office diaries 1947-1948
BOX 39	1947-1948 (revised) Photographs, undated (2 folders) Reports Dec. 1940-May 1943 (4 folders)
BOX 40	May 1943-Dec. 1943 (6 folders)
BOX 41	Feb.-Dec. 1944 (8 folders)
BOX 42	Undated 1944-Aug. 1945 (5 folders)
BOX 43	Sept. 1945-Aug. 1946 (6 folders)
BOX 44	Oct. 1946-May 1953, undated (8 folders)
BOX 45	Undated (2 folders) Trip diaries 1942, Panama 1943, England and Africa 1943-1944, North Africa and Europe (1 folder)
BOX 46	(1 folder) 1944-1945, England, Germany, France 1944-1945, Pacific trip (2 folders) 1946, Alaska (2 folders) 1950, Korea
BOX 47	Office of Scientific Research and Development

	Correspondence, Oct. 1940-June 1978 (2 folders)
	Interoffice memoranda, 1940-1947, undated
	Microwave Committee, minutes of meetings, 1941-1943
	Miscellaneous, 1940-1988
	Notes, undated (2 folders)
	Patent interferences regarding Loran (navigational aid), 1950-1958, undated
BOX 48	Radiation Laboratory, 1941-1945
	Reports, Nov. 1940-Aug. 1944, undated (7 folders)
	Research proposals, 1940-1942
BOX 49-63	University File, 1918-1988
	Correspondence, legal documents, memoranda, minutes of meetings, notes, office diaries, publications, reports, subject files, and teaching notes regarding the academic institutions with which Bowles was affiliated as a student, instructor, or as a director.
	Arranged alphabetically by institutional name and thereunder by type of material.
BOX 49	Bentley College, Waltham, Mass.
	Correspondence, May 1957-Apr. 1987 (4 folders)
	Miscellaneous, undated
	Minutes of meetings Mar. 1969-Mar. 1970
BOX 50	Apr. 1970-Oct. 1973 (4 folders)
	Notes, undated
	Office diaries, 1971-1974, undated
	Photographs, undated
	Reports, 1971
BOX 51	Kodály Musical Training Institute, Wellesley, Mass.
	Correspondence, 1939-1974, undated
	Historical file, 1970-1971, undated
	Interoffice memoranda, 1970-1972, undated
	Minutes of meetings, Jan. 1970-May 1974 (2 folders)
	Notes, undated
	Office diaries, 1970-1971
	Reports, 1968-1973
	Massachusetts Institute of Technology, Cambridge, Mass.
	Admission as student, 1920-1921
	Appointments to faculty (Bowles), 1920-1983
	Arguimbau, L. B., 1949-1973
	Autobiographical, 1984-1985

	Barrow, Wilmer L. ("Zike"), 1979, undated
	Buildings, 1952-1973, undated
BOX 52	Bush, Vannevar, 1926-1984
	Cabot, Godfrey L., 1931-1934
	Compton, K. T., 1929-1986, undated
	Course VI-C (electrical communications option) revision
	Correspondence, 1924-1936
	Notes, 1920-1939, undated
	(2 folders)
BOX 53	Text outlines, 1933-1940
	Coursework
	Bowles, 1920-1921
	(3 folders)
	Students
	1932-1935
BOX 54	1939, undated
	Crossett, Edward C.
	Dellenbaugh, Frederick Samuel, Jr., 1942-1982
	Draper, C. S., 1963-1987
	Eastham, Melville, 1925-1982, undated
	Edgerton, Harold Eugene, 1943-1973
	Electrical Engineering Laboratory
	1920-1924
	(4 folders)
BOX 55	1925-1929
	(7 folders)
	1930
	(1 folder)
BOX 56	(2 folders)
	1931-1938
	(8 folders)
BOX 57	Undated
	(3 folders)
	Fassett, Frederick Gardiner, Jr., 1942-1982
	Forrester, Jay Wright, 1955-1987, undated
	General correspondence
	Gray, Paul E., 1980
	Gross, Hedwig, 1942-1947
	Guillemin, Ernst A.
	General, 1936-1986
	Paper, "A Recent Contribution to the Design of Electric Filter Networks,"
	undated
	Teaching notes
	1941
	(2 folders)
BOX 58	(1 folder)
	1942

	1945
	(2 folders)
	Hazen, Howard L., 1938-1983
	Historical file, 1956-1988
	Houghton, Henry Garrett, 1927-1945
	Interoffice memoranda, 1925-1948
BOX 59	Jackson, Dugald C., 1921-1982, undated
	Johnson, Howard W., 1959-1983
	Killian, James Rhyne, 1944-1988, undated
	(2 folders)
	Lawrence, Ralph R., 1985
	Miscellaneous, 1925-1979, undated
	Moreland, Edward L., 1938
	Music, 1952-1960, undated
	Notes, undated
	Operations research (military), 1947-1948, undated
	Patents and inventions, undated
	Radiation Laboratory, 1940-1978
	Reintjes, J. Francis, 1982-1983
	Reports, 1925-1948
	Retirement, 1963
BOX 60	Round Hill Research Division
	Computation book, 1927-1931
	(3 folders)
	Finances, 1930-1934, undated
	Green, Edward Howland Robinson, estate
	Book, Bullard, John M., <i>The Greens as I Knew Them</i> , 1965
	Correspondence, 1927-1976, undated
	Legal proceedings
	Correspondence, 1937-1939, undated
	Supreme Court
	1937
	1938
	(1 folder)
BOX 61	(1 folder)
	Surrogate's court, 1937, undated
	(3 folders)
	Miscellaneous, 1933-1976
	Publications
	1929-1935
	(2 folders)
BOX 62	1939-1948
	Sander, Robert, 1985
	Sloan School of Industrial Management, 1951-1974, undated
	(2 folders)
	Stiefel, Hedwig Gross <u><i>See Container 57, Gross, Hedwig</i></u>

	Stratton, Julius Adams, 1919-1984, undated (3 folders)
	Stratton, Samuel Wesley, 1926-1931
	Teaching notes, 1922-1926
	Van de Groof electrostatic generators, 1933-1975
	Western Union Telegraph Co., 1932
	Wiesner, Jerome B., 1970-1987
	Wilson, Edwin B., 1957-1965
	Woodruff, Louis F., 1946-1983, undated
BOX 63	Washington University, St. Louis, Mo. Correspondence, 1941-1986, undated Coursework, 1918-1919 (2 folders) Miscellaneous General, 1918-1919, 1968, 1983 Manuscript by Ernst A. Guillemin, undated (2 folders) Photographs, circa 1986 Reports, 1936
BOX 64-84	Patent File, 1872-1989 Correspondence, court documents, and miscellaneous material concerning patents and inventions and the applications and assignments of patents entered by Bowles and others. Arranged in the following groupings: applications, assignments, consultantships, general correspondence, and miscellany, and thereunder alphabetically by corporate or personal name, subject, or type of material.
BOX 64	Applications No. 15769, 1925-1931 No. 22670, 1925-1934 No. 117758 Correspondence, 1928-1934 Interference No. 57518 Case briefs (3 folders) Case proceedings, (2 folders) Claim documentation
BOX 65	Correspondence, 1925-1934 Exhibits 1-60 (4 folders) No. 123664, 1928-1931 Nos. 123664-123665, 1927-1928 No. 129497, 1928-1929
BOX 66	No. 129498, 1926-1935 No. 130434, 1926-1928

Patent File, 1872-1989

<i>Container</i>	<i>Contents</i>
	No. 130435, 1926
	No. 132306, 1926-1927
	No. 162748, 1927-1933
	No. 168355, 1939
	No. 171238, 1927-1939
	(5 folders)
BOX 67	No. 204568, 1928-1934
	No. 225678, 1928-1935
	No. 225679, 1927-1930
	No. 226712, 1938-1939
	No. 283391, 1945
	No. 299695, 1928-1937
	Correspondence, 1928-1937
	(5 folders)
BOX 68	Interference No. 70726, 1935-1936
	(2 folders)
	No. 299697, undated
	No. 299698, 1929-1933
	No. 386115, 1932
	No. 390744, 1932-1933
	No. 391836, 1929-1935
	(2 folders)
BOX 69	(3 folders)
	No. 399360, 1929-1936
	No. 399361, 1929-1933
	No. 407721, 1930-1934
	No. 410727, 1929-1934
	No. 431525, 1929-1934
	No. 431526, 1930-1934
	No. 431527, 1929-1934
	No. 450154, 1931-1934
	No. 450692, 1930-1932
	No. 457993, 1930-1934
	No. 494342, 1930-1933
BOX 70	No. 497166, 1930-1936
	No. 530716
	Correspondence, 1933-1938
	Interference No. 73815, 1937
	No. 535405
	Correspondence, 1930-1939
	Interference No. 71805, 1932-1938
	(3 folders)
	No. 550652, 1930-1934
	No. 561205, 1931-1935
	No. 632030, 1932-1935
BOX 71	No. 635211, 1932-1936
	No. 636005, 1932-1934

No. 636006, 1932-1937
No. 636706, 1932-1983
 (2 folders)
No. 637006, 1935
No. 638005, 1933
No. 640841, 1933-1936
No. 666131, 1933-1937
No. 668201, 1933-1934
Unnumbered
 Bowles, 1934-1937
 With Guy Howard Berard Smith, 1927-1938, undated
 (3 folders)

BOX 72

Assignments
 No. 1762543, 1930
 No. 1831092, 1931
 No. 1831093, 1931
 No. 1863683, 1931
 No. 1918831, 1933
 No. 1929052, 1933-1936
 No. 1941384, 1933
 No. 1941385, 1933
 No. 1957093, 1934
 No. 1961192, 1934
 No. 1983838, 1934
 No. 1989677, 1935
 No. 1989678, 1935
 No. 1991372, 1935
 No. 1994905, 1935
 No. 1999862, 1935
 No. 2004155, 1935
 No. 2014193, 1935
 No. 2029355, 1936
 No. 2031923, 1936-1937
 No. 2031924, 1936
 No. 2031925, 1936
 No. 2031926, 1936
 No. 2063224, 1936
 No. 2063225, 1936
 No. 2070112, 1937
 No. 2071195, 1937
 No. 2099923, 1934-1954
 No. 2112264, 1938
 No. 2130414, 1938
 No. 2184156, 1939
Consultantships
 Alden Companies, 1959-1962

	Alexanderson, Ernst Fredrik Werner
	Equity cases, 1934
BOX 73	Notes by Bowles, undated
	Amy, Aceves, and King, 1937
	Armstrong, Edwin Howard
	Address by Bowles upon death of Armstrong, 1954
	Correspondence, 1946-1986, undated
	Court testimony by Bowles, undated
	Expense account, 1948-1952
BOX 74	Expenses, 1955-1960
	(2 folders)
	Memoranda for the file, 1935-1954
	Notes
	By Armstrong, undated
	By Bowles
	Chaffee, J.G., undated
	General, undated
	(4 folders)
	Patents
	Nos. 21660-1539822
BOX 75	Nos. 1541780-2630497
	(3 folders)
	Correspondence, 1929-1944
	(3 folders)
BOX 76	Photographs, 1951
	Edgerton, Harold Eugene, undated
	Grigsby-Grunow, undated
	Houghton, Henry Garrett, Jr. <u><i>See same container, Edgerton, Harold Eugene</i></u>
	Nichols, Horace E.
	Correspondence, 1935-1940
	Equity case no. 4620
	Stenographic record, 1940
	(2 folders)
	Trial documentation, 1936-1940, undated
	Miscellany, 1920-1925
	Notes by Bowles, undated
	Nicholson, Alexander McLean, 1919-1952
BOX 77	Pierce, George Washington
	Correspondence, 1917-1970, undated
	(3 folders)
	Court documents
	Appeal No. 4757, 1953
BOX 78	Civil Actions
	No. 51-526, 1952-1954
	No. 5638-M, 1956
	(2 folders)

	Expenses, 1952-1959
	Notes by Bowles, undated (2 folders)
	Patents
	Cady, Walter G./Nicholson, Alexander McL. General, 1919-1929, 1940
BOX 79	Interferences, general, 1922-1928, 1934 General, 1925-1936 Pierce, Nos. 17245-2266070 (6 folders)
	Radio Corp. of America
	Correspondence, 1955-1959
BOX 80	Report, undated
	Sperry Gyroscope Co., 1937-1940, undated
	Stockbarger, Donald C., 1932-1938
	United Artists Corp., 1962-1970, undated (4 folders)
BOX 81	Varian, Russell Harrison, 1938-1939, undated
	Western Electric Co.
	Correspondence, 1929-1975
	Court records
	Equity case no. 7, 1931 (4 folders)
	Patent notes, 1913, 1917, 1922-1925, 1931, undated
BOX 82	Patents, general, 1915-1922
	General Correspondence, 1920-1989, undated (4 folders)
BOX 83	Miscellany
	Historic patent, 1872
	Notes regarding patents and inventions
	Amplifiers, undated
	Ballast lamps, undated
	Bell, Alexander Graham, 1974-1986, undated
	Blake, Clarence John, undated
	C-Bias and compensation, undated
	Distortion, 1931, undated
	Edison, Thomas A., 1937, undated
	General, circa 1931-1939, undated (2 folders)
	Goddard, R. H., 1937
	Gray, Elisha, undated
	Hewitt, Peter Cooper, 1932-1934, undated
	High frequency signaling system, 1926-1928
	Ladenburg, Erich, undated
	Lenard, P., undated
BOX 84	Lieben, Robert von, 1934-1936
	Llewellyn, [?], undated

	Marchand, H., undated
	Modulation, undated
	Muller, Johannes, undated
	Neutralization, 1936
	Oscillation, undated
	Oxide coated filter, undated
	Reisz, Eugen, undated
	Rice, [?], undated
	Telephone systems (and Bell Telephone Co.), 1942-1984, undated
	Thermocouple amplification, 1932
	Van Der Bijl, H. J., undated
	Volume expander, undated
	Wehnelt demonstration tube, undated
BOX 84-90	Oral History File, 1979-1984
	Transcripts of recorded recollections by Bowles.
	Arranged as numbered transcripts, in two separate series, and miscellaneous, unrelated transcripts. Transcript numbers are preceded by the letters W, T, or J, bearing no relation to the numbering, which is sequential.
BOX 84	Index
	Transcripts
	Nos. 1-3, 5-17, circa 1980 (16 folders)
BOX 85	Nos. W1-19, 7 Mar.-6 Aug. 1980 (19 folders)
BOX 86	Nos. W20-W39, 9 Aug. 1980-15 Dec. 1981 (20 folders)
BOX 87	Nos. W40-T49, T51-60, 20 Dec. 1981-3 May 1982 (20 folders)
BOX 88	Nos. T61-J82, 7 May-21 Aug. 1982 (22 folders)
BOX 89	Nos. J83-J105, 24 Aug. 1982-6 July 1983 (23 folders)
BOX 90	Nos. J106-J124, 6 June 1983-12 Oct. 1984 (18 folders)
	Miscellaneous, 1979-1980 (2 folders)
BOX 90-92	Writings File, 1922-1966
	Articles, papers, and a report by Bowles.
	Arranged by format and thereunder chronologically.
BOX 90	General, 1932-1940, 1945-1948, 1955-1966, undated
BOX 91	"The Patent System of the United States, 1964 "Radio Talk," newspaper column, <i>Boston Evening Transcript</i>

Writings File, 1922-1966

Container *Contents*

	21 Mar.-28 Sept. 1922 (1 vol.)
BOX 92	28 Sept. 1922-11 June 1923 (1 vol.)
BOX CL 1	Classified Correspondence, notes, reports, and miscellany. Arranged and described according to the series and folders from which the material was removed.
BOX CL 1	Corporate file Raytheon Co. Reports, 1962-1963, undated Government File Defense Department Correspondence, 1941-1952 (2 folders) Miscellany General, 1942-1953 Notes, undated Reports, 1943-1944, 1952, undated (2 folders)