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Collection Overview

Repository: National Air and Space Museum Archives
Title: Curtiss-Wright Corporation Records - Patent Files
Identifier: NASM.1987.0029
Date: 1906-1947
Extent: 9 cubic feet (18 document boxes)
Creator: Curtiss Aeroplane and Motor Company
Language: English
Summary: The years before World War I were spent in patent litigation for aviation pioneers Glenn Curtiss and Orville and Wilbur Wright.

Administrative Information

Acquisition Information

Processing Information
Researchers may wish to consult other collections in the NASM Archives:

Curtiss-Wright Corporation Records, Acc. XXXX-0067. This collection includes reports and technical reports from various Curtiss-Wright divisions, legal documents, corporate and financial records, drawings and blueprints. There are additional patent certificates and related materials.

Clement Melville Keys Papers, Acc. XXXX-0091. Clement Melville Keys (1876-1952) was a financier and corporate organizer who headed the Curtiss group of companies during the merger that formed Curtiss-Wright.

Preferred Citation

Restrictions
No restrictions on access.
Conditions Governing Use

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Historical Note

The years before World War I were spent in patent litigation for aviation pioneers Glenn Curtiss and Orville and Wilbur Wright. The Wright brothers claimed wing warping patents and sought to prevent Curtiss and others from manufacturing and selling aircraft and products based on these patents. During World War I, the aircraft manufacturing industry set up the Manufacturer’s Aircraft Association, a patent pool in which all participants were allowed to use any patents to build aircraft for the war effort. After the war, Wright Aeronautical Corporation and the Curtiss Aeroplane and Motor Company continued to be major players in the aircraft industry, long after Curtiss and the Wrights ended association with their namesakes.

In 1929, the Curtiss Aeroplane and Motor Company merged with the Wright Aeronautical Corporation to form the Curtiss-Wright Corporation. After the merger, responsibility for engine and propeller manufacture was consolidated under the Wright name while Curtiss concentrated on airplanes. Although the two companies were merged by name and under the direction of a corporate headquarters located in New York City, the separation and specialization of the two divisions continued to cause problems for the company. The election of former Wright personnel to key corporate positions soon led to Wright becoming the dominant division. The Great Depression and the collapse of the market for commercial aviation revealed how reliant the aviation industry was on military production. Sales dropped and Curtiss-Wright was forced to close certain satellite plants and transfer some of their product lines to the St. Louis facility.

During the U.S. military build-up prior to World War II, existing Curtiss-Wright plants were expanded and new aircraft factories were built to meet the growing production demand. The company failed, however, to plan for the future after the war. In 1946, Curtiss-Wright had only two experimental military models at hand for postwar delivery and no assurance of production orders. Wright Aeronautical continued to build engines, but was no longer at the forefront of development. The eventual sale of the Airplane Division to North American included design rights to the former Curtiss-Wright airplanes. The Curtiss-Wright Airplane Division, which manufactured airframes, finally closed down in 1951.

The Curtiss-Wright Corporation still exists in the 21st century, but has become a diversified technology corporation in various markets, including aviation and defense.

Scope and Contents

The Curtiss-Wright Corporation Archives - Patent Files collection consists primarily of materials relating to patents issued to and maintained by the Curtiss-Wright Corporation and its subsidiaries from the 1910s to the 1950s, though the bulk of the materials pre-date World War II. The majority of the collection is original patent certificates. Other materials include records of litigation proceedings, correspondence, memoranda, aircraft drawings and blueprints, reports, sales brochures, meeting minutes, and annual reports.
Arrangement

The collection is arranged in four series: Patents, Patent File Wrappers, Patent Litigation, and Curtiss-Wright Corporation Records. Series I contains original patents and related materials issued or assigned to the Curtiss-Wright Corporation and related organizations. Covering the years between 1911 and 1939, the series is further divided into two subseries: United States Patents and International Patents. Series II consists of file wrappers prepared by the United States Patent Office, containing a complete record of the patent's history. The third series includes materials from Curtiss-Wright's numerous litigation proceedings in defense of its patents. The fourth series contains business records created by the Curtiss-Wright Corporation including photocopies of historic patent and stock documents, division minutes, and reports for the U.S. Navy Department.

Series I - Patents, 1911-1939
Subseries I - United States Patents, 1911-1939
Subseries II - International Patents, 1916-1935
Series II - Patent File Wrappers, 1916-1930
Series IV - Curtiss-Wright Corporation Records, 1906-1945

Names and Subject Terms

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

Cultures:
- Aeronautics
- Aeronautics, Commercial -- United States
- Aircraft industry
- Patent suits

Types of Materials:
- Drawings
- Financial records

Names:
- Aerial Experiment Association
- Bell, Alexander Graham, 1847-1922
- Curtiss, Glenn Hammond, 1878-1930
- Curtiss-Wright Corporation
- Herring, Augustus Moore, 1867-1926
- Herring-Curtiss Co
Container Listing

Series 1: Patents, 1911-1939

14 boxes

According to the United States Patent and Trademark Office, a patent is an exclusive right granted by a
government to an inventor to manufacture, use, or sell an invention for a certain number of years. This
series consists of patents issued to inventors associated with or with rights assigned to the Curtiss-Wright
Corporation and related organizations. The series is divided into two subseries: United States Patents,

1.1: United States Patents, 1911-1939

This subseries consists of patents issued by the United States government. There are two types
of US patents, a design patent and a utility patent. A design patent refers to the visual ornamental
characteristics embodied in, or applied to, an article of manufacture. A utility patent protects useful
processes, machines, articles of manufacture, and compositions of matter. Materials in the series
consist of the actual certificates issued, official reprints by the Government Printing Office, and related
materials. Patent certificates issued before May 1922 hold the original signature of the Commissioner of
Patents. After this time, all patent certificates were rubber-stamped. Materials are organized by patent
number; the first five patents are design patents and the rest of the patents are utility patents.


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Box 13, Folder 32  Patent No. 2165462, Roland Chilton, Reduction gears, 7/11/1939
Box 13, Folder 33  Patent No. 2165463, Roland Chilton, Dynamic torque balancers, 7/11/1939
Box 13, Folder 34  Patent No. 2165482, Paul E. Hovgard, Aircraft wing arrangements, 7/11/1939
Box 13, Folder 35  Patent No. 2169222, Roland Chilton, Dynamic dampers having single support and cam stabilizer, 8/15/1939
Box 13, Folder 36  Patent No. 2169243, Vinton Higbie, Supercharger and coder arrangements, 8/15/1939
Box 13, Folder 37  Patent No. 2172729, Roland Chilton, Centrifugal breathers, 9/12/1939
Box 13, Folder 38  Patent No. 2172741, Wilton G. Lundquist, Crankshaft torsion dampers, 9/12/1939
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Box 13, Folder 51  
Patent No. 2183020, Henry C. Hill, Ignition harness, 12/12/1939

Box 13, Folder 52  
Patent No. 2184734, Roland Chilton, Rocking dynamic dampers, 12/26/1939

1.2: International Patents, 1916-1935

This subseries consists of information concerning patents issued by Canada, Germany, and the United Kingdom. Canadian materials consist of the original patent certificate, holding the original signature of the Commissioner and containing papers and/or drawings signed by the patent holder. German and British materials do not contain the original patent and instead contain the correspondence between the Curtiss-Wright Patent Division and international patent offices and attorneys. Materials are organized by country, then by patent number.


Box 14, Folder 1  
Canada Patent No. 168910, Glenn H. Curtiss, Hydroaeroplane boats, 4/18/1916

Box 14, Folder 2  
Canada Patent No. 173948, Glenn H. Curtiss, Multiple control systems for prime movers, 12/19/1916

Box 14, Folder 3  
Canada Patent No. 174099, Glenn H. Curtiss, Lubricating systems for travelling motors, 12/26/1916
Box 14, Folder 4  Canada Patent No. 187241, Charles B. Kirkham, Aerial propeller fastenings, 10/29/1918

Box 14, Folder 5  Canada Patent No. 187331, Glenn H. Curtiss and John P. Tarbox, Multiple step flying boats, 11/5/1918

Box 14, Folder 6  Canada Patent No. 187332, Nelson W. Dalton, Convertible control systems, 11/5/1918

Box 14, Folder 7  Canada Patent No. 187333, Nelson W. Dalton, Streamline shock absorbers, 11/5/1918

Box 14, Folder 8  Canada Patent No. 187334, Henry Kleckler, Tail skids for aeroplanes, 11/5/1918

Box 14, Folder 9  Canada Patent No. 187335, Henry Kleckler, Tail skids for aeroplanes, 11/5/1918

Box 14, Folder 10 Canada Patent No. 187381, Henry Kleckler, Triplanes, 11/12/1918

Box 14, Folder 11 Canada Patent No. 188301, Glenn H. Curtiss, Flying boat hulls, 1/14/1919

Box 14, Folder 12 Canada Patent No. 188302, Glenn H. Curtiss, Aircraft, 1/21/1919

Box 14, Folder 13 Canada Patent No. 190201, Henry Kleckler, Fuselages for aeroplanes, 5/6/1919

Box 14, Folder 14 Canada Patent No. 191903, Glenn H. Curtiss, Triplane flying boats, 7/29/1919

Box 14, Folder 15 Canada Patent No. 192354, Glenn H. Curtiss, Flying boats, 8/26/1919

Box 14, Folder 16 Canada Patent No. 192355, Glenn H. Curtiss, Flying boat hulls, 8/26/1919

Box 14, Folder 17 Canada Patent No. 192469, Glenn H. Curtiss, Autoplanes, 9/2/1919

Box 14, Folder 18 Canada Patent No. 193014, Joseph G. Coffin, Barometer construction, 9/30/1919


Box 14, Folder 20 Canada Patent No. 204593, Henry Kleckler, Dual interlocking controls, 10/5/1920

Box 14, Folder 21 Canada Patent No. 206342, William L. Gilmore, Fighting aeroplanes, 12/7/1920

Box 14, Folder 22 Canada Patent No. 206983, John A. Christen, Multiple control systems for multi-motored aircraft, 12/28/1920

Box 14, Folder 23 Canada Patent No. 211904, Thomas S. Kemble, Exhaust mufflers, 5/24/1921


Box 14, Folder 26  Canada Patent No. 229060, Grover Cleveland Loening, Airplanes, 2/27/1923

Box 14, Folder 27  Canada Patent No. 253211, Grover Cleveland Loening, Airplanes, 9/1/1925

Box 14, Folder 28  Germany Patent No. 81735, Sylvanus Albert Reed, Propeller, 5/3/1935

Box 14, Folder 29  United Kingdom Patent No. 362748, Wright Aeronautical, assignee Roland Chilton, Improvements in or relating to yielding clutches, 12/10/1931

Box 14, Folder 30  United Kingdom Patent No. 363201, Wright Aeronautical, assignee Roland Chilton, Improvements in or relating to cooling devices for internal combustion engines, 12/17/1931

Box 14, Folder 31  United Kingdom Patent No. 371710, Curtiss Aeroplane and Motor Company, assignees George A. Page, Jr., and George E. Warren, Improvements in or relating to cowling rings, 4/28/1932

Box 14, Folder 32  United Kingdom Patent No. 371892, Wright Aeronautical, assignee Rudolph Farewell Gagg, Improvements in or relating to shielding devices for electrical ignition systems, 4/29/1932

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A file wrapper is the folder prepared by the United States Patent and Trademark Office containing a complete record of proceedings from the filing of the initial patent application to the issued patent. 3 The original accordion folder containing these materials noted that these were the original assignments relative to the title in Curtiss Aeroplane and Motor Company and Curtiss Assets Corporation matters. Materials are organized by patent number.


Box 14, Folder 33  File Wrapper - Patent No. 1203550; Related materials, 1916; 1929-1930
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Box 15, Folder 12  File Wrapper - Patent No. 1420610, 1922
Box 15, Folder 13  File Wrapper - Patent No. 1653122, 1927
Box 15, Folder 14  Chain of Title of Curtiss Patents, 1930-1954
Box 15, Folder 15  Curtiss Matters [unfiled material], UNDATED

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The Curtiss-Wright Corporation was involved in numerous legal disputes with other major aircraft companies over patent rights. The majority of the series consists of materials dated between 1929 and 1934 placed in files by Curtiss-Wright during the pursuit of patent litigation. File contents include copies of the proceedings, correspondence and memoranda, aircraft drawings and blueprints, advertising brochures, and copies of related patents. The series also contains copies of patents that were not associated with a case file, but might have been used for research. Materials are arranged by a file number created by Curtiss-Wright, followed by unfiled materials ordered by date.

Materials were originally stored in accordion folders, with additional manila folders inside. The front page of the accordion folder, which contained the case name, case number, and a list of the patents involved, was placed in the first folder of each file number.

Box 16, Folder 1
File No. 291, Curtiss Assets Corporation vs. Consolidated Aircraft Corporation, Equity No. 748, Proceedings, 1929

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File No. 291, Curtiss Assets Corporation vs. Consolidated Aircraft Corporation, Equity No. 748, General Three Suits, 1929

Box 16, Folder 4
File No. 310, Curtiss Assets Corporation vs. The Waco Aircraft Company, Equity No. 268, Proceedings, 1930

Box 16, Folder 5
File No. 310, Curtiss Assets Corporation vs. The Waco Aircraft Company, Equity No. 268, Correspondence, 1930

Box 16, Folder 6
File No. 310, Curtiss Assets Corporation vs. The Waco Aircraft Company, Equity No. 268, Waco information, UNDATED

Box 16, Folder 7
File No. 311, Curtiss Aeroplane and Motor Company, Inc., vs. The Waco Aircraft Company, Equity No. 269, Proceedings and copies, 1929

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File No. 315, Curtiss Assets Corporation vs. Bellanca Aircraft Corporation, Equity No. 805, Proceedings, 1930-1933

Box 16, Folder 9
File No. 315, Curtiss Assets Corporation vs. Bellanca Aircraft Corporation, Equity No. 805, Correspondence and blueprints, 1930-1933

Box 16, Folder 10
File No. 315, Curtiss Assets Corporation vs. Bellanca Aircraft Corporation, Equity No. 805, Patents in suit, 1916-1922

Box 16, Folder 11
File No. 316, Curtiss Assets Corporation vs. Bellanca Aircraft Corporation, Equity No. 845, Proceedings, 1930-1933

Box 16, Folder 12
File No. 316, Curtiss Assets Corporation vs. Bellanca Aircraft Corporation, Equity No. 845, Correspondence, 1930-1931
Box 17, Folder 1  File No. 316, Curtiss Assets Corporation vs. Bellanca Aircraft Corporation, Equity No. 845, [Notices, Stipulations, Blueprints], 1930-1931

Box 17, Folder 2  File No. 316, Curtiss Assets Corporation vs. Bellanca Aircraft Corporation, Equity No. 845, Date Re: Evidence [Orville Wright Interview and Correspondence], 1931-1932

Box 17, Folder 3  File No. 316, Curtiss Assets Corporation vs. Bellanca Aircraft Corporation, Equity No. 845, Extra copies and memorabilia, 1930-1933

Box 17, Folder 4  File No. 321, Curtiss Assets Corporation vs. Ford Motor Company, Equity No. 864, Proceedings, 1930-1931

Box 17, Folder 5  File No. 321, Curtiss Assets Corporation vs. Ford Motor Company, Equity No. 864, Correspondence, 1930-1934

Box 17, Folder 6  File No. 321, Curtiss Assets Corporation vs. Ford Motor Company, Equity No. 864, Papers to be filed as needed at hearing [Notice and stipulation], 1931

Box 17, Folder 7  File No. 321, Curtiss Assets Corporation vs. Ford Motor Company, Equity No. 864, Memoranda, 1931-1932

Box 17, Folder 8  File No. 321, Curtiss Assets Corporation vs. Ford Motor Company, Equity No. 864, Wright patent for Improvement in Flying Machines, original issued December 29, 1914, copied May 15, 1931, 1914

Box 17, Folder 9  File No. 325, Curtiss Assets Corporation vs. Nicholas-Beazley Airplane, Co., Inc., Equity No. 269, Proceedings, 1931

Box 17, Folder 10  File No. 325, Curtiss Assets Corporation vs. Nicholas-Beazley Airplane, Co., Inc., Equity No. 269, Memoranda and copies of patents in suit, 1930-1931

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Box 17, Folder 12  Patent No. 1122348 - Assignment, October 30, 1930

Box 17, Folder 13  Aerial Camera and Mapping Patents, 1916-1930

Box 17, Folder 14  Bellanca Patents, 1931-1932

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Box 17, Folder 16  Docket No. 19832, Tom Clark v. Wright Aeronautical Corporation, 1947

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This series consists of business records collected and released by the Curtiss-Wright Corporation. Included are photocopies of twenty-three historical Curtiss-Wright documents including the Wright brothers’ original patent certificate and other Wright patents, Glenn Curtiss’ original patent for the first flying boat, and stock certificates issued to Wright Aeronautical Corporation. The location of the original documents is unknown. The series holds research reports and documents submitted to the U.S. Navy Department Bureau of Aeronautics. The series also contains the 1944 and 1945 minutes and reports from the Curtiss-Wright Patent Department and Development Division Technical Committee. Materials are arranged chronologically.

Box 18, Folder 1-2  Photocopies of Historic Curtiss-Wright Documents, 1906-1928

Box 18, Folder 3  International Nickel Company, Directory, United States Aircraft Engine Manufacturers, First Edition, February 1, 1930

Box 18, Folder 4  Statements by F.H. Russell to the Patents Committee of the U.S. House of Representatives Regarding the Manufacturers Aircraft Association, Inc., December 4, 1935


Box 18, Folder 10  [U.S. Navy Department Experimental Contract] Pathfinder Apparatus - Instructions, 1944

Box 18, Folder 11  [U.S. Navy Department Experimental Contract] Pathfinder Apparatus - Correspondence, 1944

Box 18, Folder 12  Curtiss-Wright Development Division Technical Committee, 1944-1945
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