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Part 12 - Landing Gears

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FOREWORD

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ABBREVIATIONS

- A.R.C. R. & M. - Great Britain. Aeronautical research committee. Reports and Memoranda.
- A.S.M.E. - American society of mechanical engineers, New York.
- Atti Assoc. ital. aerotecn. - Atti dell'Associazione italiana di aerotecnica. Roma.
- C.A.H.I. - Central aero-hydrodynamical institute, Moscow.
- C.I.N.A. - Commission internationale de navigation aérienne, Genève.
- C. R. Acad. sci. - Comptes rendus hebdomadaires des séances de l'Académie des sciences, Paris.
- D.V.L. - Deutsche versuchsanstalt für luftfahrt, Berlin.
- F.A.I. - Fédération aéronautique internationale, Paris.
- H.M. Stat. off. - His Majesty's Stationery office, London.
- N.A.A. - National aeronautic association, Washington.
- N.A.C.A. - National advisory committee for aeronautics, Washington.
- N.P.L. - National physical laboratory, Teddington, England.
- Pub. scient. tech. Min. de l'air. - Publications scientifiques et techniques du Ministère de l'air. Service des recherches de l'aéronautique, Paris.
- R.A.F. - Royal air force (Great Britain)
- R.A.S. - Royal aeronautical society (Great Britain)
- Rend. Istituto sper. aer. - Rendiconto dell'Istituto, sperimentale aeronautico, Roma.
- S.A.E. - Society of automotive engineers, New York.
- U.S. Govt. print. off. - U.S. Government printing office, Washington.
- V.D.I. - Verein deutscher ingenieure, Berlin.
- W.G.L. - Wissenschaftliche gesellschaft für luftfahrt, Berlin.
- Z.A.M.M. - Zeitschrift für angewandte mathematik und mechanik, Berlin.
- Z.F.M. - Zeitschrift für flugtechnik und motorluftschiffahrt, München.

TABLE OF CONTENTS

Part I

BOOKS AND PAMPHLETS ON LANDING GEARS..1

Part II

PERIODICAL ARTICLES, BOOKS, PAMPHLETS, etc.,
ON LANDING GEARS, CLASSIFIED BY SUBJECT

Brakes.....11

Design and Construction.....17

Floats.....27

Retractable.....39

Shock Absorbers.....42

Skis.....47

Tail Wheels and Skids.....49

Testing.....50

Tricycle.....53

Wheels and Tires.....54

AUTHOR INDEX.....63

Part I

BOOKS AND PAMPHLETS ON LANDING GEARS

- The Airspeed "Oxford" training airplane (british). A two engine cantilever monoplane. Washington, 1937. 7 p. diags., illus., tables. (N.A.C.A. Aircraft circulars no. 208) (Lockheed retractable landing gear) (From Aeroplane, London, June 23, July 28, 1937 and Flight, London, Apr. 29, July 1, 1937)
- Fairey "Battle" medium bomber airplane (british). An all metal low-wing cantilever monoplane. Washington, 1937. 5 p. diags., illus., tables. (N.A.C.A. Aircraft circulars no. 209) (Lockheed hydraulic landing gear) (From Aeroplane, London, June 16, Aug. 18, 1937)
- Scale effect in towing tests with airplane-float system, by Rudolf Schmidt. Washington, 1937. 26 p. diags., tables. (N.A.C.A. Technical memorandums no. 826) (From Luftfahrtforschung, Berlin, July 20, 1936, v. 13, no. 7)
- Impact of a vee-type seaplane on water with reference to elasticity, by Fritz Weinig. Washington, 1936. 14 p. (N.A.C.A. Technical memorandums no. 810) (From Luftfahrtforschung, Berlin, May 20, 1936, v. 13, no. 5, p. 155-59)
- Landing gear fairing drag, by R. Jones and A. H. Bell. London, H. M. Stat. off., 1936. 6 p. illus., tables. (A.R.C. R. & M. no. 1691)
- Tank tests of models of floats for single-float seaplanes. 1st series, by John B. Parkinson. Washington, 1936. 13 p. diags., tables. (N.A.C.A. Technical notes no. 563)
- The Drag of airplane wheels, wheel fairings and landing gears, by William H. Herrnstein and David Biermann. Washington, U. S. Govt. print. off., 1934-35. 30 p. diags., illus. (N.A.C.A. Reports no. 485, 518, 522)
- Hydrodynamic tests of models of seaplane floats, by Antonio Eula. Washington, 1935. 8 p. diags., tables. (N.A.C.A. Technical memorandums no. 770) (From L'Aerotecnica, Roma, Aug.-Sep. 1934)
- Impact of solid bodies against a water surface, by M. Lavrentiev. Moscow, Scientific technical department of the Supreme council of national economy, 1935. 47 p. (Transactions of the Central aero-hydrodynamical institute no. 152)
- Seaplane float and hull design, by Marcus Langley. New York, Pitman, 1935. 131 p. bibliog., charts, diags., illus.

- Airplane design, by Karl Dawson Wood. Ithaca, N.Y., Cornell university college of engineering, 1934. 420 p. charts, diagrs., plates.
- Development of floats and equipment for research in promoting it, by Wilhelm Pabst. Washington, 1934. 12 p. (N.A.C.A. Technical memorandums no. 740) (From Z.F.M., Berlin, Dec. 14, 1932)
- Experiments with planing surfaces, by W. Sottorf. Washington, 1934. 35 p. diagrs., illus., tables. (N.A.C.A. Technical memorandums no. 739) (From Werft-reederei-hafen, Berlin, Oct. 1, 1932, Feb. 15-Mar. 1, 1933)
- Impact of pontoons, by L. Sedov. Moscow, Scientific technical department of the Supreme council of national economy, 1934. 27 p. (Transactions of the Central aerohydrodynamical institute no. 187)
- Tank tests of auxiliary vanes as substitute for planing area, by John B. Parkinson. Washington, 1934. 7 p. diagrs. (N.A.C.A. Technical notes no. 490)
- Tank tests of flat and v-bottom planing surfaces, by James M. Shoemaker. Washington, 1934. 25 p. diagrs., illus. (N.A.C.A. Technical notes no. 509)
- The Aerodynamic effect of a retractable landing gear, by Smith J. De France. Washington, 1933. 3 p. (N.A.C.A. Technical notes no. 456) (Abstract Journal of the R.A.S., London, Oct. 1934, p. 848)
- Dimensions of twin seaplane floats, by L. Meyer. Washington, 1933. 22 p. (N.A.C.A. Technical memorandums no. 719) (From L'Association technique, maritime et aéronautique, Paris, May 1933, no. 37, p. 553-77)
- The N.A.C.A. tank. A highspeed towing basin for testing models of seaplane floats, by Starr Truscott. Washington, U. S. Govt. print. off., 1933. 21 p. diagrs., illus., tables. (N.A.C.A. Reports no. 470)
- On the scale effect of aeroplane model float tests, by W. Sottorf. Washington, 1933. 21 p. diagrs., tables. (N.A.C.A. Technical memorandums no. 704) (From Z.F.M., Berlin, Dec. 28, 1932, v. 23, no. 24, p. 713-19)
- Preliminary study of retractable landing gears for high and low wing monoplanes. Washington, U. S. Govt. print. off., 1933. 9 p. (Air corps information circular no. 678)
- Tank tests of two floats for high-speed seaplane, by J. W. Bell. Washington, 1933. 6 p. (N.A.C.A. Technical notes no. 473)

Die Auf die stossstelle der einseitigen landung reduzierte masse der flugzeuge, von Josef Taub. D.V.L. Jahrbuch München, 1932, pt. 3, p. 15-16. diagrs.

Comparative speed tests of wheels, by E. K. Lasswell. Washington, D. C., U. S. Govt. print. off., 1932. 6 p. illus. (Air corps information circular no. 676) (Also Air corps technical report no. 3564)

Drop and flight tests on NY-2 landing gears including measurements of vertical velocities at landing, by W. C. Peck and A. P. Beard. Washington, U. S. Govt. print. off., 1932. 15 p. diagrs., illus., tables. (N.A.C.A. Report no. 406)

Dynamic testing of airplane shock-absorbing struts, by P. Langer and W. Thome. Washington, 1932. 7 p. diagrs. (N.A.C.A. Technical memorandums no. 656) (From Zeitschrift des V.D.I., Berlin, Nov. 7, 1931, v. 75, no. 45, p. 1388-89)

Dynamic tests of Gruss shock absorber model X-58, by R. E. Middleton and T. De Port. Washington, U. S. Govt. print. off., 1932. 4 p. diagrs. (Air corps information circular no. 671)

Dynamic tests of Keystone B-3A bomber oleo shock absorber. Washington, U. S. Govt. print. off., 1932. 6 p. diagrs., illus. (Air corps information circular no. 666)

Effect of float setting on take-off and top speed of the IIIf, by J. L. Hutchinson. London, H. M. Stat. off., 1932. 2 p. diagr. (A.R.C. R. & M. no. 1487)

Experiments with planing surfaces, by W. Sottorf. Washington, 1932. diagrs., illus. (N.A.C.A. Technical memorandums no. 661) (From Werft-reederei-hafen, Berlin, Nov. 7, 1929)

Hydrodynamic design of seaplane floats and of seaplanes, by N. A. Sokolov. Moscow, Scientific technical department of the Supreme council of national economy, 1932. 39 p. (Transactions of the Central aero-hydrodynamical institute no. 149)

Mathematical investigation of strength of wooden seaplane hulls of the Linton-Hope type of construction. (Full-sized machines-3rd series), by W. C. S. Wigley. London, H. M. Stat. off., 1932. 18 p. diagrs., tables. (A.R.C. R. & M. no. 1376)

The Problem of tire sizes for airplane wheels, by Franz Michael. Washington, 1932. 27 p. diagrs., illus. (N.A.C.A. Technical memorandums no. 689) (From Z.F.M., Berlin, July 14, 1932)

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- Wheels, fairings and mudguards, by F. B. Bradfield and G. F. Midwood. London, H. M. Stat. off., 1932. p. 14. illus., tables. (A.R.C. R. & M. no. 1479)
- Zur frage der abmessungen von luftreifen für flugzeuglauf-
räder, von Franz Michael. D.V.L. Jahrbuch, München,
1932, pt. 3, p. 17-30. diagrs., illus.
- Airplane landing gear, by Salvatore Maiorca. Washington,
1931. 23 p. diagrs., illus. (N.A.C.A. Technical
memorandums no. 627) (From L'Aerotechnica, Roma, Sep.-
Oct. 1930, v. 10, no. 9-10, p. 689-745)
- Determination of resistance and trim with skimming boats,
by P. Schroeder. Washington, 1931. 8 p. illus.
(N.A.C.A. Technical memorandums no. 619) (From Z.F.M.,
Berlin, Nov. 28, 1930, v. 21, no. 22, p. 577-86)
- Drag tests on full scale float of S 5, by F. B. Bradfield
and R. A. Fairthorne. London, H. M. Stat. off., 1931.
diagrs., tables. (A.R.C. R. & M. no. 1300, p. 232-39)
- Dynamic and flight tests on rubber cord and oleo-rubber-disc
landing gears for an F6C-4 airplane, by William Cecil
Peck. Washington, U. S. Govt. print. off., 1931. 19 p.
diagrs., illus., tables. (N.A.C.A. Report no. 366)
- Dynamic test of long stroke oleo strut with compensating valve.
Washington, U. S. Govt. print. off., 1931. diagrs. (Air
corps information circular no. 658) (Also Air corps
technical report no. 3392)
- Experiments with airplane brakes, by Franz Michael. Washing-
ton, 1931. 28 p. diagrs., illus., tables. (N.A.C.A.
Technical memorandums no. 636) (From Z.F.M., Berlin,
May 28, June 15, 1931, v. 22, no. 10-11, p. 302-12, 338-44)
- Landing impact of seaplanes, by Wilhelm Pabst. Washington,
1931. 29 p. diagrs., illus. (N.A.C.A. Technical memo-
randums no. 624) (From Z.F.M., München, Berlin, Jan. 14,
1931, v. 22, no. 1, p. 13-28)
- Load assumptions for the landing impact of seaplanes, by Josef
Taub. Washington, 1931. 31 p. (N.A.C.A. Technical
memorandums no. 643) (From Z.F.M., München, July 28, 1931,
v. 22, no. 14, p. 433-42)
- The New Charlestop remote brake transmission control, by Pierre
Léglise. Washington, 1931. 3 p. illus. (N.A.C.A. Tech-
nical memorandums no. 640) (From L'Aéronautique, Paris,
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- On floats and float tests, by Friedrich Seewald. Washington,
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(From Z.F.M., München, May 15, 1931, v. 22, no. 9,
p. 265-76)

Report on experiments with model of seaplane float test with the S.5 duralumin float. Model 807B. London, H. M. Stat. off., 1931. diags., illus., tables. (A.R.C. R. & M. no. 1300, p. 262-69)

Static, drop and flight tests on Musselman type airwheels, by William Cecil Peck and Albert P. Beard. Washington, U. S. Govt. print. off., 1931. 20 p. diags., illus., tables. (N.A.C.A. Report no. 381)

Static stability tests of Gloster IV floats. London, H. M. Stat. off., 1931. diags., table. (A.R.C. R. & M. no. 1300, p. 338-39)

The Stresses in a wire wheel under rim loads. Part I. The stresses in a wire wheel with non-radial spokes under rim loads in the plane of the rim. Part II. The stresses in a wire wheel under side loads on the rim, by A. J. Sutton Pippard, J. White and W. E. Francis. London, H. M. Stat. off., 1931. diags., illus., tables. (A.R.C. R. & M. no. 1440)

Wind tunnel test of a Gloster IV float, by A. S. Hartshorn. London, H. M. Stat. off., 1931. diags., table. (A.R.C. R. & M. no. 1300, p. 207)

Wind tunnel test of a modified Gloster IV float, by H. Davies. London, H. M. Stat. off., 1931. diags., tables. (A.R.C. R. & M. no. 1300, p. 208-09)

Wind tunnel test of increased drag of a quarter scale float on adding rivets, by F. B. Bradfield and F. W. G. Greener. London, H. M. Stat. off., 1931. diags., tables. (A.R.C. R. & M. no. 1300, p. 229-31)

Impact tests on rubber compressed springs for airplane landing gears, by K. Hohenemser. Washington, 1930. 14 p. diags., illus. (N.A.C.A. Technical memorandums no. 572) (From Z.F.M., Berlin, Mar. 28, 1930, v. 21, no. 6, p. 133-37)

The Stresses in a radially spoked wire wheel under loads applied to the rim. Parts I-II, by A. J. Sutton Pippard and W. E. Francis. London, H. M. Stat. off., 1930. diags., illus., tables. (A.R.C. R. & M. no. 1302,1337)

Cord, elastic, shock absorber (aircraft use). Washington, U. S. Navy department, 1929. 4 p. (Specification no. 49C1B)

Determination of stresses in landing gears and design of shock absorbing units, by Theodore De Port. Washington, U. S. Govt. print. off., 1929. 12 p. illus. (Air corps information circular no. 602)

The Impact on seaplane floats during landing, by Theodore von Kármán. Washington, 1929. 8 p. illus. (N.A.C.A. Technical notes no. 321)

- Landing and braking of airplanes, by Louis Bréguet. Washington, 1929. 28 p. diags. (N.A.C.A. Technical memorandums no. 507)
- Static test report of type E-1 airplane ski. Washington, U. S. Govt. print. off., 1929. illus. (Air corps information circular no. 636)
- The Use of wheel brakes on airplanes, by Thomas Carroll and Smith J. DeFrance. Washington, 1929. 9 p. diags., illus. (N.A.C.A. Technical notes no. 311) (From Aeroplane, London, Nov. 27, 1928, v. 37, no. 22, p. 1235-36)
- Water pressure distribution on a twin-float seaplane, by Floyd LaVerne Thompson. Washington, U. S. Govt. print. off., 1929. 18 p. diags. (N.A.C.A. Report no. 328)
- Aircraft float design, by Holden Chester Richardson. New York, The Ronald press company, 1928. 111 p. diags., illus.
- The Reaction on a float bottom when making contact with water at high speeds, by Holden Chester Richardson. Washington, 1928. 4 p. diags., illus. (N.A.C.A. Technical notes no. 288)
- Static test on the Material division 32 by 6 disk wheel, by Russell F. Hardy. Washington, U. S. Govt. print. off., 1928. 2 p. illus. (Air corps information circular no. 614)
- Tank tests of twin-seaplane floats, by Hans Herrmann, G. Kempf and H. Kloess. Washington, 1928. diags., illus. (N.A.C.A. Technical memorandums no. 486) (From Luftfahrtforschung, Berlin, Jan. 3, 1928)
- Water-pressure distribution on a seaplane float, by Floyd La Verne Thompson. Washington, U. S. Govt. print. off., 1928. 15 p. illus., tables. (N.A.C.A. Report no. 290)
- Wheel brakes and their application to aircraft, by George H. Dowty. Washington, 1928. 29 p. diags., illus. (N.A.C.A. Technical memorandums no. 466) (From Flight, London, Nov. 24, Dec. 29, 1927, Jan. 26, 1928)
- Seaplane floats and hulls, by Hans Herrmann. Washington, 1927. 56 p. illus. (N.A.C.A. Technical memorandums no. 426, 427) (From W.G.L., Berlin, Dec. 1926)
- Designing seaplane hulls and floats, by E. Benoit. Washington, 1926. 17 p. illus. (N.A.C.A. Technical memorandums no. 376) (From L'Aéronautique, Paris, June 1926, v. 8, no. 85, p. 199-207)

- Digest of some of the speeches made at the fifteenth regular meeting of the "Wissenschaftliche gesellschaft für luftfahrt" June 17, 1926 in Dusseldorf, Germany, by Hans Herrmann. Washington, 1926. 15 p. (N.A.C.A. Technical memorandums no. 379) (From Z.F.M., Berlin, July 14, 1936)
- Tests on airplane fuselages, floats and hulls, by Walter Stuart Diehl. Washington, U. S. Govt. print. off., 1926. 22 p. diags., illus. (N.A.C.A. Report no. 236)
- The Calculation of wing float displacement in single-float seaplanes, by Edward Pearson Warner. Washington, 1925. 5 p. diagr. (N.A.C.A. Technical notes no. 215)
- Effect of spoke lacing on the physical properties of airplane wire wheels, by C. J. Cleary. Washington, U. S. Govt. print. off., 1925. 16 p. illus. (Air service information circular no. 537)
- Landing gears, by Charles N. Montieth. (In his Simple aerodynamics and the aeroplane. Washington, U. S. Govt. print. off., 1924, p. 95-114. diags., illus., tables)
- Static stability of seaplane floats, by Walter Stuart Diehl. Washington, 1924. 10 p. diags., tables. (N.A.C.A. Technical notes no. 183)
- Impact test of a JN-4 skid and landing chassis, by D. B. Weaver. Washington, U. S. Govt. print. off., 1923. 3 p. illus. (Air service information circular no. 409)
- Discussion of airplane tires and wheels. Washington, U. S. Govt. print. off., 1922. charts, illus. (Air service information circular no. 303)
- Experiments with models of seaplane floats, series 1, 3-4, 6-13, 17-19, 22, by G. S. Baker, E. M. Keary, A. D. Grigg, G. H. Bottomley and G. H. Millar. London, H. M. Stat. off., 1912-1920, 1922. diags., illus., tables. (A.R.C. R. & M. no. 70, 98, 99, 165, 166, 187-89, 300, 365, 410, 412, 483, 655, 785)
- Report of static test of ski for an SE-5 airplane. Washington, U. S. Govt. print. off., 1922. 2 p. diagr. (Air service information circular no. 322)
- Report on special airplane wheel and tire (28 by 4 straight - side tire, one-piece rim) (Material section report no. 144). U. S. Engineering division. Washington, U. S. Govt. print. off., 1921. 7 p. diags. (Air service information circular no. 278) (Also McCook field report no. 1648)

Report of static test on the J. V. Martin shock-absorbing wheels with the Curtiss JN-4 chassis. U. S. Engineering division. Washington, U. S. Govt. print. off., 1921. 8 p. illus. (Air service information circular no. 254) (Also McCook field report no. 1595)

Report on 36 x 8 inch straight-side tire and wheel. Washington, U. S. Govt. print. off., 1921. 4 p. diags., illus., tables. (Air service information circular no. 207) (Test under static load)

Report of the static test of the landing chassis. Washington, U. S. Govt. print. off., 1920. 8 p. illus. (Air service information circular no. 38)

Report on special airplane wheel and tire (44 x 10 straight side tire, truck type rim). U. S. Engineering division. Washington, U. S. Govt. print. off., 1920. 10 p. illus. (Air service information circular no. 154) (Also McCook field report no. 1400)

Storage and preservation of rubber goods tires and tubes. Liberty ignition system instruction board. Washington, U. S. Govt. print. off., 1920. 4 p. illus. (Air service information circular no. 48)

The Impact of a model seaplane float on water, by G. H. Bottomley. London, H. M. Stat. off., 1919. 7 p. diags., tables. (A.R.C. R. & M. no. 683)

Report on the aerodynamic properties of seaplane floats, by L. F. C. Simmons and W. L. Cowley. London, H. M. Stat. off., 1919. (A.R.C. R. & M. no. 285)

Some notes on floats for seaplanes of single float type. 14th series, by G. S. Baker. London, H. M. Stat. off., 1919. (A.R.C. R. & M. no. 437)

Model tests on fairing for chassis axle, by E. A. Griffiths and C. H. Powell. London, H. M. Stat. off., 1916. 5 p. (A.R.C. R. & M. no. 255) diagr., tables.

Resistance of aeroplane undercarriages of two types "V" and "Oleo F.E.2," and of wheels with various forms of covers. London, H. M. Stat. off., 1916. 16 p. diags. (A.R.C. R. & M. no. 579)

The Wind resistance of an aeroplane wheel, by E. A. Griffiths and J. D. Coales. London, H. M. Stat. off., 1915. 1 p. (A.R.C. R. & M. no. 207)

Experiments with models of hydroaeroplane floats, by G. S. Baker and G. H. Millar. London, H. M. Stat. off., 1913-1914. diags., tables. (A.R.C. R. & M. no. 98-99)

Some experiments in connection with the design of floats for hydroaeroplanes - with appendix on Tests in the wind channel to determine the wind forces on hydro-aeroplane float no. 43 B. by L. Bairstow, by G. S. Baker and G.H. Millar. London, H. M. Stat. off., 1914. 7 p. diagsr. (A.R.C. R. & M. no. 70)

Flotteurs, par Gustave Eiffel. (In his Nouvelles recherches sur la résistance de l'air et l'aviation. Paris, H. Dunod et E. Pinat, 1913. p. 257-60. diagsr., tables)

The Pontoon and floats; land chassis, by A. H. Verrill. (In his Harper's aircraft book. New York; London, Harper and brothers, 1913. p. 208-13)

Some constructional features of the aeroplane, by Algernon E. Berriman. (In his Aviation. London, Methuen and company, ltd., 1913. p. 26-30. illus.)

Les Hydro-aéroplanes; étude technique et pratique des aéroplanes marins, par F. R. Petit. Paris, H. Dunod et E. Pinat, 1912. 84 p.

Report of experiments carried out with hydro-aeroplane with notes and suggestions for further experiments, by Murray F. Sueter. London, H. M. Stat. off., 1911. 4 p. diagsr. (A.R.C. R. & M. no. 69)

The Arrangement for starting and landing of airplanes, by Robert Petit. (In his A History of aircraft. New York, D. Van Nostrand company, 1910. p. 56-67. illus.)

Part II

PERIODICAL ARTICLES, BOOKS, PAMPHLETS, ETC.,
ON LANDING GEARS, CLASSIFIED BY SUBJECT

BRAKES

- Lockheed brakes. Aeroplane, London, Mar. 3, 1937, v. 52, no. 1345, p. 263-64. diagrs., illus.
- Airplane brakes, by J. G. Thompson. Western flying, Los Angeles, Nov.-Dec., 1936, v. 16, no. 11-12, p. 20-22; 21-23, 44. illus.
- Interesting brake. Flight, London, Oct. 29, 1936, v. 30, no. 1453, p. 451. diagrs., illus.
- Something new in brakes. Flight, London, Oct. 15, 1936, v. 30, no. 1451, p. 384. illus. (friction disc brake made by Avery equipment ltd.)
- Wheel brakes with release springs. Flight, London, Sep. 9, 1936, v. 30, no. 1446, p. 273. illus.
- Wheel brake running gear. Aeroplane, London, June 17, 1936, v. 50, no. 1308, p. 779-80. illus.
- Bremsflüssigkeiten und kraftübertragende flüssigkeiten, von Möllering. Chemiker-zeitung, Köthen, Apr. 22, 1936, v. 60, no. 33, p. 335-36.
- Brakes for airplanes. Scientific american, New York, Mar. 1936, v. 154, no. 3, p. 148. illus.
- Bendix aircraft brakes. Air annual of the British Empire, London, 1935-36, v. 7, p. 401-10. diagrs., illus., tables.
- Dunlop tyres, wheels and brakes. Air annual of the British Empire, London, 1935-36, v. 7, p. 387-99. diagrs., illus.
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AUTHOR INDEX

Adams, Porter Hartwell	17	Denkinger, George M.	37
Aldin, Edwin E.	45	DePort, Theodore	3,5,22,43,45
Anderson, W. W.	30	51	
Anglel, J.	40	Diehl, Walter Stuart	7,36
Artois, D.	25	Dollfus, Charles	14
Aston, W. G.	26	Dowty, George H.	6,14,16,21
Aymerito, Paolo	42	23,40,41,44,56,57,58,59	
Babio, Felipe Lafita	29	Dumas, Alexandre	26
Bairstow, L.	9,38	Dunlap, D. Earle	49
Baker, G. S.	7,8,9,36,37,38	Eiffel, Gustave	9
Baumhauer, A. G. von	54	Epstein, A.	20
Beard, A. P.	3,5,50,51,54,57	Esnault - Pelterie, Robert	25
Bell, A. H.	1,19	Eula, Antonio	1,29,35,36
Bell, J. W.	2,31	Evans, R. D.	56
Bell, R. N.	48	Fairbanks, E. U.	20
Benoit, E.	6,36	Fairey, C. R.	36
Berriman, Algernon E.	9	Fairthorne, R. A.	4
Biermann, David	1,55	Faudi,	40
Black, Archibald	35	Fellowes, F.	55
Blanchet, P.	55	Ferrari, Luigi G.	22,52,60
Blériot, Louis	25,50	Ferrier, A.	47
Boelen, A.	55	Fiore, A.	39
Boggio, Aldo	11,12	Focaccetti, C.	13,51
Bolas, H.	16,17	Francis, W. E.	5,20,21,56,57
Bottomley, G. H.	7,8,36,37	Franz, Michael	56
Boynton, H. G.	40	Freedlander, A. L.	58
Boysson, A. de	20	Gabrielli, Giuseppe	32
Bradfield, F. B.	4,5,32,56	Gadant, R.	45
Bréguet, Louis	6,12,15,16,25	Garner, H. W.	33
Brennan, Walter	17	Gassner, A. A.	15
Brown, E. R.	62	Gay, M.	25,62
Brown, Waring R.	12	Gazley, R. O.	19
Carroll, Thomas	6,16	Gillette, L. D.	17
Casiraghi, G.	20	Gilmore, W. C.	23
Castner, F.	15	Goldman, G.	19
Cautley, J. R.	58	Gratiot, Robert	24,25,26,38,39
Charitonov	29	Green, J. J.	47
Clarkson, Joseph	17	Greener, F. W. G.	5,32
Cleary, C. J.	7,52,59,60,61	Greer, John Fulton	39
Coales, J. D.	8,62	Griffiths, E. A.	8,53,62
Cody, Samuel Franklin	26	Grigg, A. D.	7,36
Collins, A. R.	31	Guérin, A.	38
Coombes, L. P.	33	Guglielmetti, Aldo	52,60
Cosci, G. A. Domenico	13	Guidoni, A.	36
Courtney, F. T.	17,54	Gurevitch, M. I.	30
Cowley, W. L.	8,37	Gurney, H. P.	46
Cox, H. R.	12	Haiduck, A. F.	49
Cross, C.	59	Hanson, Earl	48
Darrow, Burgess	56	Hardecker, John F.	22,45,49
Davies, H.	5,32	59	
De France, Smith J.	2,6,16,41	Hardy, Russell F.	6,52,60
De Lajarte, A. Dufaure	42	Hartshorn, A.S.	5,32
Delaunay, A.	38	Hattoom, F. L.	12

Heinkel, Ernst	25	Lidonna, Giuseppe	14
Hem, L. W.	56	Lioré, Fernand	26
Herrmann, Hans	6,7,35	Lower, J. H.	34
Herrnstein, William H.	1,55	Luburg, A.	40
Hill, G. T. R.	53	Mac Gregor, Charles G.	37
Hofer, Alfred H.	12	Mc Ilkiney, Donald W.	23
Hoglund, G. O.	31	Mc Kinley Thompson, C.W.	40
Hohenemser, K.	5,44,52	Magill, H. S.	31
Hollynock, W. S.	43	Magni, P.	17
Hope, Linton	38	Maiorca, Salvatore	4,13,21,43
Howard-Flanders, L.	17	57	
Hunsaker, Jerome Clarke	46	Martens, C. H.	57,58
Huntington, Dwight	21	Martin, James V.	41
Hutchinson, J. L.	3,31	Mewes, E.	28
Irmer, H.	42	Meyer, L.	2,30
Jäger, Kurt	24	Michael, Franz	3,4,13,49
James, Paul	24,26	Middleton, R. E.	3,43,51
James, R. A.	27	Midwood, G. F.	4,56
Jarvis, J.	30	Mignoulte, I. C.	33
Jenkins, W. King	44	Miki, T.	30
Johnson, C. V.	42	Millar, G. H.	7,8,9,36,38
Johnston, L.	29	Minvalla, Pheroze E.J.	38
Jones, A. R.	12	Mirguet, Henri	26
Jones, R.	1,19	Mitchell, R. J.	33
Jones, Robert T.	18,53	Mock, R. M.	41
Kármán, Theodore von	5,34	Möllerling	11,42
Kauffmann, Paul A.G.	37	Montieth, Charles N.	7,23
Keary, E. M.	7,36	Moore, W. B.	59
Kempf, G.	6,35	Munro, William	32,34,35
Klein, G. J.	47	Murata, Y.	42
Klein, Alexander	18,22,28,56	Musselman, A. J.	57,58,59
Kloess, H.	6,35	Nagel, C. F.	31
Knack, Frederick	20	Nelson, W.	34
Knechtel, E.	37	Newell, J. S.	52
Kohler, M.	47,50	Niles, Alfred S.	19,21,44
Kollinek, T.	15	North, John D.	23
Korvin-Kroukovsky, B.V.	28	Ogawa, Taitiro	21,42,44
35,55		Pabst, Wilhelm	2,4,29,30,32
Kosourov	29	Panetti, Modesto	41,42
Krekel	40	Parkinson, H.	20,30
Kreutzer, Joseph	21	Parkinson, John B.	1,2,28,30
Kutzbach, Karl	12,51	Pavlenko, G. Y.	34
Lacaine, Jean	18,54	Peck, W. C.	3,4,5,44,50,51,54
Lamarche, Jr. Paul E.	22	57	
Lanchester, Frederick W.	43	Pedley, J. H.	48,59
Langer, P.	3,43,51	Perelmutter, A.	28,29
Langley, Marcus	1,18,28,29	Perring, W. G. A.	29
Lasswell, E. K.	3,51,56	Perry, H.	53
Lavrentiev, M.	1,29	Perucca, Alceste	22
Le Ber, R. J.	57	Petit, F. R.	9,27,47
Lecoivre, R.	29	Petit, Robert	9
Léglise, Pierre	4,13	Philos	25
Le Page, Wynn L.	20,45,60	Phipps, Walter H.	26
Lewe, Victor von	37	Pidcock, C. W.	38

Pierce, R. C.	13
Pippard, A.J. Sutton	5,19
20,21,55,56,57	
Post, G. B.	33
Powell, C. H.	8,53
Poy, Clarence W.	47
Prentiss, F. L.	42
Preston, E. R.	62
Pugh, A. G.	17
Rees, H. S.	19
Rhoades, Guy E.	48,59
Richardson, Holden Chester	6
30,35,36,37	
Rivière, Pierre	26,39
Roe, Alliot Verdon	25
Ross, L. F.	43
Ross, Orrin E.	46
Rowe, D. C.	21
Rowland, L.	46
Russell, A. E.	21
Sabathe, G.	28
Schippel, H. F.	57,59
Schmidt, Fritz	23
Schmidt, Rudolf	1,28
Schmitt, Paul	24
Schroeder, Paul	4,32,33
Schwam, Morton	33
Scott-Hall, S.	12,20
Sedov, L.	2,29
Seewald, Friedrich	4,32
Sem-Jacobsen, M. Einar	48
Shanley, F. R.	18,54
Shiskin, S.	18
Shoemaker, James M.	2,30
Sikorsky, Igor	14
Simmons, L. F. C.	8,37
Simpson, Dwight S.	37
Smith, C. D.	57
Sokolov, N. A.	3,30,31
Sottorf, W.	2,3,27,29,31,33
Spaak, G.	35
Sretenski, L. N.	29
Starbird, Frank K.	52,58
Steenderen, C.	40

Stieda, W.	18,42
Stoneman, A.	12
Streeter, J.	28
Sueter, Murray F.	9
Suffrin - Hébert, M.	45
Taub, Josef	3,4,20,32,43
Tavener, C. H.	46
Thomas, H. H.	23
Thomas, P. E.	27
Thome, W.	3,43,51
Thompson, F.L.6,35,34,35,50,54	
Thompson, J. G.	11
Thoret, J.	49
Thum, A.	19
Titterton, George F.	22
Truscott, Starr	2,30
Upson, Ralph H.	12
Ursinus, Oskar	37
Van Dusen, William L.	33
Verduzio, R.	19,20,31,42
Verrill, A. H.	9
Volodin	29
Vosler, K. D.	35
Walters, N.	58,59
Wardrop, Douglas	24
Waring-Brown, R.	13
Warner, Edward Pearson	7,19
36,37,55	
Waugh, R. S.	45,52
Weaver, D. B.	7,50,52
Weaver, Edgar R.	17
Weick, Fred Ernest	19,54
Weinblum, Georg	31
Weinig, Fritz	1,28,33
Wenzinger, Carl J.	18,53
West, R. Rolleston	17
White, M. J.	5,20,56
Wigley, W. C. S.	3,31
Wilson, Edgar H.	46,61
Wing, R. N.	37
Wolski, Kazmierz	59
Wood, Karl Dawson	2,18,28
Wunderlich, F.	19
Yanpolski, A. R.	30