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Part 12 - Landing Gears

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U.S. WORKS PROGRESS ADMINISTRATION

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Project 465-97-3-21
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ABBREVIATIONS


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.


D.V.L. - Deutsche versuchsanstalt für luftfahrt, Berlin.


R.A.F. - Royal air force (Great Britain)

R.A.S. - Royal aeronautical society (Great Britain)

Rend. Instituto sper. aer. - Rendiconto dell'Istituto, sperimentale aeronautico, Roma.

S.A.E. - Society of automotive engineers, New York.


V.D.I. - Verein deutscher ingenieure, Berlin.


Z.F.M. - Zeitschrift für flugtechnik und motorluftschifffahrt, München.
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BOOKS AND PAMPHLETS ON LANDING GEARS


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)


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. 878)


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)


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)


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)


Landing gears, by Charles N. Montieth. (In his Simple aerodynamics and the aeroplane. Washington, U. S. Govt. print. off., 1924, p. 95-114. diagrs., illus., tables)


Discussion of airplane tires and wheels. Washington, U. S. Govt. print. off., 1922. charts, illus. (Air service information circular no. 305)


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


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)


Part II

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

BRAKES


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Engineering problems in aviation, by A. Stoneman. Institution of engineers journal, Sydney, Australia, Nov. 1933, v. 5, no. 11, p. 368-77.


Atterrissage et freinage sur l'air et au sol des avions, par Louis Bréguet. La Science aérienne, Paris, May-June 1933. 18 p. illus.


Esperienze sui velivoli con ruote frenate, di C. Focaccetti. *L'Airotechnica*, Roma, Apr. 1932, v. 12, no. 4, p. 543-54. diagrs., illus., tables.


Commercial invention, by R. C. Pierce. *Aero Digest*, New York, Nov. 1931, v. 19, p. 54. (development of brakes)


Freno-carrello semi-automatico "Elidum-Dux" per aeroplani, di Giuseppe Lidonni. L'Ala d'Italia, Milano, June 1930, v. 9, no. 6, p. 509-11. diagrs., illus.

Radbremse für Flugzeuge. Die Luftwacht, Berlin, Apr. 1930, no. 4, p. 176-82. illus.


Multiple disc brake (Sikorsky). Aero Digest, New York, Dec. 1929, v. 15, no. 6, p. 168. illus.


Le Frein Knorr à air comprimé. L'Àeronautique, Paris, May 1929, v. 11, no. 120, p. 162. illus.

Palmer rubber airplane brake. India rubber weekly, New York, Apr. 1929, v. 80, no. 1, p. 64. diagrs.


LANDING GEARS - BRAKES

Airplane brakes, by Edgar R. Weaver. Slipstream, Dayton, Ohio, Nov. 1927, v. 8, no. 11, p. 25-27. diagrs., illus.


Tail wheel or nose wheel? by F. R. Shanley. Aviation, New York, June 1936, v. 35, no. 6, p. 29-32.
LANDING GEARS - DESIGN AND CONSTRUCTION


Trains d'atterrissage modernes, par G. Goldman. La Technique aeronautique, Paris, 1936, v. 27, no. 142, p. 306-20. (review of undercarriage designs in Europe and the United States)


Distribution of moments in landing gear, by Alfred S. Miles. Aviation engineering, New York, May-June 1933, v. 8, no. 5-6, p. 5-7, 18-19. diagrs.

How accidents effect design, by R. O. Gazley. Western flying, Los Angeles, June 1933, v. 13, no. 6, p. 12-13, 30.


Airplane landing gears, by Frederick Knack. A.S.M.E. transactions, New York, 1932, v. 54, no. 20, p. 165-70. diagrs., illus.


Douglas dolphin amphibian. Aero digest, New York, Mar. 1931, v. 18, no. 3, p. 76-77. illus. (Wide track oleo landing gear)


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Landing gears, by Charles N. Montieth. (In his Simple aerodynamics and the aeroplane). Washington, U. S. Govt. print. off., 1924. p. 95-114. diagrs., illus., tables)

Airplane landing gear dropped in flight. Popular mechanics, Chicago, Nov. 1922, v. 38, no. 11, p. 695. illus.


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New Bréguet landing chassis. Aero and hydro, Chicago, July 26, 1913, v. 6, no. 17, p. 337. (Also Aeronautics, London, July 1913, v. 6, no. 65, p. 249)

Chariot d'atterrissage pour aéroplanes. La Technique aéronautique, Paris, July 15, 1913, v. 8, no. 83, p. 53-54. diagr. (Berthaud landing gear)

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Sur la position des roues des aéroplanes, par M. Gay. La Technique aéronautique, Paris, May 1, 1912, v. 5, no. 57, p. 266-68.


Interesting forms of alighting gear explained. Aero, St. Louis, Aug. 12, 1911, v. 2, no. 18, p. 411. illus.

Les Châssis d'atterrissage, par Fernand Liore. L'Aérophile, Paris, July 1, 1911, v. 19, no. 13, p. 316. diagr. (Paul Zens landing gear)


Chassis of the aeroplanes which participated in the competition of the war department at Rheims. Vestnik vozduhovo flota, Moscow, 1911, no. 19.

Châssis d'atterrissage Hanriot. L'Aéro-mécanique, Bruxelles, Nov. 10, 1910, v. 3, no. 4, p. 32. illus.


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Contribution to the planing theory, by L. N. Sretenski. Izvestia akademia nauk, 1934, no. 6.


Ziele und wege der schwimmt werksentwicklung von seeflugzeugen, von Wilhelm Pabst. Werft-reederei-hafen, Berlin, June 1, 1933, v. 14, no. 11, p. 139-47. (Hamburg shipbuilding research institute report no. 108)


The Motion of planing plates, by M. I. Gurevitch and A. R. Yanpolski. Technika vozduhovo flota, Moscow, 1933, no. 10.


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Assembly and maintenance of Edo floats. Aircraft servicing, New York, Aug. 1930, v. 1, no. 4, p. 11-12, 29-30. diagrs., illus.


Calculating the displacement of a float, by Morton Schwam. Aeronautical world journal of commerce, Los Angeles, June 1930, v. 3, no. 6, p. 34. diagrs.

How to build pontoons for gliders, by William L. Van Dusen. Western flying, Los Angeles, June 1930, v. 7, no. 6, p. 54-56. illus.


Waterways of the world are your airdromes, by G. B. Post. Aeronautical world journal of commerce, Los Angeles, Dec. 1929, p. 142-43.


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Repairing duralumin hulls and pontoons. Aviation, New York, Aug. 9, 1926, v. 21, no. 6, p. 242-43. illus.
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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, June 16, Aug. 18, 1937)


LANDING GEARS - RETRACTABLE


Preliminary study of retractable landing gears for high and low wing monoplane. Washington, U. S. Govt. print. off., 1933. 9 p. (Air corps information circular no. 676)


LANDING GEARS - SHOCK ABSORBERS


On shock absorption on oleo undercarriage, by T. Ogawa and Y. Murata. Tokyo, Tokyo imperial university, 1935. 68 p. (Aeronautical research institute report no. 125)


Absorbing the shocks. U. S. Air services, Washington, Apr. 1931, v. 16, no. 4, p. 48. illus. (Aerol struts manufactured by Cleveland pneumatic tool company)

Shock absorber struts. Canadian air review, Toronto, Mar. 1931, v. 4, no. 1, p. 27. illus. (manufactured by Cleveland pneumatic tool company)


Airplane chassis design - the shock absorbing unit. A discussion of landing gear problems, by Alfred S. Niles. Airway age, New York, July-Sep. 1930, v. 11, no. 7-9, p. 918-21, 1054-58, 1205-27. diagrs., illus., tables.


Les Systèmes amortisseurs dans les trains d'atterrissage-pneumatiques, roues et extenseurs, par R. Gadant. La Technique aéronautique, Paris, Nov. 15, 1925, n.s., v. 16, no. 49, p. 334-47. illus.

The Boeing mail plane. Aviation, New York, Sep. 14, 1925, v. 12, no. 11, p. 321. illus. (Axleless type L G with Boeing oleo shock absorbers)


SKIS


Aircraft skis, sport planes. Aviation, New York, Nov. 1936, v. 35, no. 11, p. 43. illus.


Aerodynamics in aircraft ski design, by J. J. Green. Canadian aviation, Toronto, Apr. 1936, v. 9, no. 4, p. 8-10.

Dragon rapide skiplane. Canadian aviation, Toronto, Apr. 1936, v. 9, no. 4, p. 12, 22. (experiments on streamlined ski requiring no external trimming gear)


Special methods of canadian flyers, by Earl Hanson. Airway age, New York, Nov. 1929, v. 10, no. 11, p. 1784-86. diagrs., illus.


Static test report of type E-1 airplane ski. Washington, U. S. Govt. print. off., 1929. 6 p. illus. (Air corps information circular no. 636) (Also Air corps technical report no. 3005)


Ski landing gears for airplanes. Aviation, New York, June 1, 1920, v. 8, no. 9, p. 369. diagr., illus.

Grandjeans eindecker auf skier. Fachzeitung für automobilismus und flugtechnik, Berlin, Mar. 17, 1912, v. 6, no. 12, p. 24-25. illus.

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Tail wheels for light aircraft. Aero digest, New York, Apr. 1938, v. 32, no. 4, p. 64. illus.


Tail wheels on the fleet. Aviation, New York, Nov. 1931, v. 30, no. 11, p. 661. illus.


The special dolly and tailskid arrangement on the aerial mercury. Aviation, New York, May 4, 1925, v. 18, no. 18, p. 494. illus.


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Boeing jig to determine load factor of the landing gear. Aero digest, New York, July 1936, v. 28, no. 7, p. 102. illus. (Also U. S. Air services, Washington, July 1936, p. 34)


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New winter flying carriage tested by Boeing. Aviation, New York, Jan. 11, 1930, v. 28, no. 2, p. 74. illus. (Ski-wheel landing gear)


Static test report of type E-1 airplane ski. Washington, U.S. Govt. print. off., 1929. 6 p. illus. (Air corps information circular no. 363) (Also Air corps technical report no. 3005)


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Report on 36x8 inch straight-side tire and wheel. Washington, U. S. Govt. print. off., 1921. 4 p. diagrs., illus., tables. (Air service information circular no. 207)


Report on special airplane wheel and tire (44x10 straight-side tire, truck type rim). Washington, U. S. Govt. print. off., 1920. 14 p. illus. (Air service information circular no. 154) (Also McCook Field report no. 1400)


TRICYCLE


Two-place midwing tailless airplane with tricycle landing gear. Western flying, Los Angeles, Mar. 1938, v. 18, no. 3, p. 28. illus.


Tail wheel or nose wheel? by F. R. Shanley. Aviation, New York, June 1936, v. 35, no. 6, p. 29-32.


WHEELS AND TIRES


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Le Dernier modèle de "ski-roue." La Conquête de l'air, Bruxelles, May 1, 1930, v. 26, no. 5, p. 405. illus.


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Application of anti-friction bearings to airplane wheels,
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Wheels and brakes. Air annual of the British Empire, London,

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17. illus. (Also India rubber world, New York,
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Aug. 17, 1929, v. 27, no. 7, p. 357)

Rubber in airplane landing gears, by John F. Hardecker.
Rubber age, New York, Sep. 10, 1929, v. 25, no. 11,
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Some information about airplane tires, by C. J. Cleary. U.S.
Air services, Washington, Sep. 1929, v. 14, no. 9, p. 54-
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Ski wheel developed by Ottawa pilot, by J. H. Pedley. Canadian

Internally-sprung wheels for aircraft, by George H. Dowty.
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show. Rubber age, New York, Feb. 25, 1929, v. 24,
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The Sauzedde wheel. Aero digest, New York, Oct. 1926, v. 9, no. 4, p. 325. illus.


The Largest airplane tire. Aviation, New York, Aug. 27, 1923, v. 15, no. 9, p. 249. illus.
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Discussion of airplane tires and wheels. Washington, U. S. Govt. print. off., 1922. 2 p. (Air service information circular no. 203)

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Sur la position des roues des aéroplanes, par M. Gay. La Technique aéronautique, Paris, May 1, 1912, v. 5, no. 57, p. 266-68.


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