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Part 12 - Landing Gears

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ABBREVIATIONS


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.


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Impact of solid bodies against a water surface, by M. Laurentiev. 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. 678)


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


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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)


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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.


LANDING GEARS - BRAKES

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

I Freni per aeroplano. L'Aerotecnica, Roma, Mar. 1932, v. 12, no. 3, p. 357-70. illus.


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.

Radbremsen für flugzeuge. Die Luftwacht, Berlin, Apr. 1930, no. 4, p. 176-82. illus.


LANDING GEARS – BRAKES


Multiple disc brake devised by Sikorsky. Aviation, New York, Nov. 30, 1929, v. 27, no. 22, p. 1083. illus.


Le Frein Knorr à air comprimé. L'Aéronautique, 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.


Trains d'atterrissage modernes, par G. Goldman. La Technique aéronautique, Paris, 1936, v. 27, no. 142, p. 306-30. (Review of undercarriage designs in Europe and the United States)


Distribution of moments in landing gear, by Alfred S. Niles. 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.


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


Airplane chassis design - the shock absorbing unit, 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.


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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.


Oleo undercarriage design, by George II. Dowty. Proceedings of the Institution of aeronautical engineers, Melbourne, 1922, no. 4, p. 27-56.

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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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Chroniques documentaires. Les Châssis d'atterrissage Bréguet-Blériot, par Robert Gratiot. La Revue aérienne, Paris, Jan. 10, 1913, v. 6, no. 102, p. 31-32. illus.
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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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Interesting forms of alighting gear explained. Aero, St. Louis, Aug. 12, 1911, v. 2, no. 19, p. 411. illus.

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LANDING GEARS - DESIGN AND CONSTRUCTION


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

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


Ziele und wege der schwimm 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 vozdushnovo flota, Moscow, 1933, no. 10.


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. diagrs., illus., tables. (C.A.H.I. Transactions no. 149)


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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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Gliding surface of seaplane floats, by A. Guidoni. Aviation, New York, June 1, 1920, v. 8, no. 9, p. 363-65. diagrs.
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RETRACTABLE


Fairey "Battle" medium bomber airplane (British). An all-metal low-wing cantilever monoplane. Washington, 1937. 5 p. diagrs., illus., tables. (N.A.C.A. Aircraft circulars no. 209) (Lockheed hydraulic landing gear) (From Aeroplane, June 16, Aug. 18, 1937)


Autosyn remote indicating system, by H. G. Boynton. Aero digest, New York, May 1936, v. 28, no. 5, p. 46, 50. (indication of position of retractable landing gear)


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)


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LANDING GEARS - SHOCK ABSORBERS


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. 19, no. 11, p. 321. illus. (Axleless type L G with Boeing oleo shock absorbers)


LANDING GEAR - SHOCK ABSORBERS


SKIS


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


TAIL WHEELS AND SKIDS

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.


Testing


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


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

Report on 36x8 inch straight-side tire and wheel. Washington, U. S. Govt. print. off., 1921. 4 p. diags., 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


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


WHEELS AND TIRES


New airplane tire. Aviation engineering, East Stroudsburg, Pa., May 1932, v. 6, no. 5, p. 34. illus. (Firestone air balloon)


Comparative speed tests of wheels, by E. K. Lasswell. Washington, U. S. Govt. print. off., 1932. 6 p. illus. (Air corps information circular no. 676) (Also Air corps technical report no. 2564)


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


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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)

Detalles de las ruedas "Ackerman" para aeroplano. Tohtli, Mexico City, Oct. 1917, v. 2, no. 10, p. 300. diagrs.


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


Châssis d'atterrissage. L'Aéro-mécanique, Bruxelles, Nov. 10, 1910, v. 3, no. 4, p. 31. illus. (Aerial wheel, ltd.)
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