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**Collection of C A Carus-Wilson
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Archives: CAR

Collection of C A CARUS-WILSON

4 OFFPRINTS ETC 1893-1906

BOX 1 OF 2

1. Physics and engineering at the McGill University, Montreal/Nature, 1894, Oct 4. pp.558-564. ill.
2. Electrical engineering plant at McGill University/Electrical Engineer, Vol.XV, No.262, 1893, May 10. pp.447-558. ill.
3. Electrical engineering at McGill University, Montreal, Can./Electrical Engineer, Vol.XVI, No.273, 1893, July 26. pp.73-75. ill.
4. A new arrangement of the Kelvin Balance/Electrical Review, Vol.35, No.885, 1894, Nov.9. pp.549-550.
5. McGill University electrical engineering laboratory/Electrical Engineer, Vol.XVIII, No.340, 1894, Nov.7. pp.369-370. ill.
6. The Royal Institution (account of a discourse by Professor Carus-Wilson given to the Royal Institution, entitled 'Some features of the Electric Induction Motor)/The Engineer, 1899, May 5. pp.444.
7. American Universities at the Columbian exposition: IV The McGill, Montreal/Engineering, 1893, Aug.18. pp.195-196. ill. (Pictures on p.210).
8. Professor Carus-Wilson on radial trucks: a question of terminological inexactitude/Electrical Industries and Investments, No.255, 1906, Mar.14. p.601.
9. Three sheets numbered 1 to 3. List of enprints and slides, handwritten [n.d.]
10. Sketch of a lecture on the Electric Induction Motor. Typewritten, 2 pages. [n.d.]
11. Abstract of discourse by Professor C A Carus-Wilson on some features of the electric induction motor. Typewritten with corrections and alterations in manuscript form. 2 pages.

The New Astronomical model by William Wilson - collection of booklets and advertising leaflets.

1. Journal of the British Astronomical Association, London, Vol. XXVII, No. 5, Eyre & Spottiswoode Ltd. 1917, March.
2. The New Astronomical Model/William Wilson [n.d.] 4 pages, ill.
3. The New Astronomical Model/William Wilson - Patent number 106658, patented 1916, May 29. London: Hazell, Watson & Viney Ltd [n.d.] 4 pages, ill.
4. Pamphlet - The New Astronomical Model/William Wilson - London: Hazell, Watson & Viney Ltd [n.d.] 15 pages, ill.
5. The New Astronomical Model: written appreciations from well-known astronomers and educationalists/4 pages [n.d.]
6. The New Astronomical Model/William Wilson - 2 pages, ill. [n.d.]
7. Extracts from letters from Samuel L Boothroyd to William Wilson/typewritten, 1922-23.
8. Methods of payment for the new astronomical model/2 pages, ill. [n.d.]
9. Instruction booklet/William Wilson - London: Wilkinson Bros [n.d.] 40 pages.
10. Additional letter to illustrated pamphlet. Typewritten, 1 page [n.d.]
11. Supplementary apparatus. Typewritten, 2 pages [n.d.]
12. Three Features of Great Importance. Typewritten, 2 pages [n.d.]
13. Astronomy by model: a new device for facilitating the study of the sun and moon/reprint from Conquest, 1920, Aug. 2 pages, ill.
14. Order form. 1 page [n.d.]
15. Letter of recommendation/Rev. A L Cortie. Typewritten, 1 page, 1921, Aug. 4.
16. Note on the new astronomical model/Rev. A L Cortie (reprint from Nature, 1919, Nov. 27. pp. 343-4). 1 page [n.d.]
17. Description of diagram. 2 pages [n.d.] ill.

Patents, 1906-1907

1. British patent no.305. Improvements in and or connected with railway wagons. Applied for 4 Jan 1906, granted 3 Jan 1907. 1906, 6 pages, ill.
2. British patent no.7151. Improvements in and or connected with railway trucks. Applied for 24 Mar 1906, granted 10 June 1907. 1906, 6 pages, ill.
3. French patent no.376.256. Chemin de fer et tramways: voitures et accessoires. Applied for 23 Mar 1907, granted 5 Aug 1907. 1907, 4 pages, ill.
4. German patent no.188394. Durch ein besonderes Steuergestall einstellbares Drehgestell von Eisenbahnfahrzenger. Applied for 1 Sept 1906, granted 20 July 1907. 1907, 3 pages, ill.
5. Carus-Wilson drawing and typewritten specification [n.d.] 6 pages, ill.

Correspondence with F Gibbins on Duplex wagon and radial truck.

Correspondence 1906, Jan to 1906 July between Carus-Wilson and F Gibbins Esq, relating to the Duplex wagon and radial truck. 23 items, 25 pages, typewritten.

Correspondence 1906, May to 1906 July between F Gibbins and Carus-Wilson, relating to the Duplex wagon and radial truck. 7 items, 8 pages, manuscript.

Estimation of cost of radial truck with pneumatic air device. 1 item, 3 pages, manuscript.

Letters from W N Smith

Correspondence 1905 March to 1905 December from W N Smith concerning a paper presented by W N Smith and Mr Lyford to the American Institute of Electrical Engineering. 2 items, 8 pages. Typewritten.

1. Royal Institution of Great Britain/schedule of meetings after Easter, 1899. 6 pages.
2. Correspondence 1899 May, from the Royal Institute thanking Prof. Carus-Wilson for his discourse of April 28th. 1 page, manuscript.
3. Eight lectures on the Direct Current Motor/ syllabus for all eight. Commencing May 8th [no year]. 2 pages.
4. Handbill/lecture XIIIIVI by Prof. Carus-Wilson, 1900, Nov. 1 page, 2 sides.
5. Ditto - except in colour and larger size.
6. Notice/University of London, outline syllabus of 5 lectures on Natural Phenomena in Literature, History and Art [n.d.] 1 sheet, typewritten.

Correspondence 1902 Jan to 1905 May from Barbier and Salomon concerning the experiments on train reinstance. 6 items, 10 pages, typewritten.

Notes on Barbier's 'Revue General des Chemins de Fer@ 1897. 4 pages, 2 ill. Manuscript.

1. Arts 1 to 33B. Contents are for private circulation only. Contains Professor Callcott Reilly's course of mechanics applied to construction 1-33B [n.d.] 84p. Typescript (title page manuscript).
2. As 1, parts 34-49A. 73p..
3. As 1, parts 50-69. 66p.
4. As 1, parts 90-94. 22p.
5. Plates only of Arts 1 to 69 [n.d.] 10p.
6. Plates only of Arts 120-121 and 310-315 [n.d.] 3p.

Sketch map of the province of British Columbia. Scale 75 miles to the inch. Black and white [n.d.]

Notes on derailment. Uses different examples to illustrate reasons for derailment and optimum conditions [n.d.] (9p) manuscript.

Notes on derailment on sharp corners at low speeds. Uses equations and looks at different types of engines [n.d.] (21p) ill. Manuscript.

Notes on gyration. States a general case then looks at Palace, Bogie coach and straight gyration [n.d.] (6p) ill. Manuscript.

Oblique effect gyration. Notes on pushing and pulling engines [n.d.] (8p) ill. Manuscript.

High speed. Relation to weight of cars and train, strains on the engine, wind pressure and forward friction [n.d.] (14p) ill. Manuscript.

Stevrine (type of engine?) Dimensions and weight of whole vehicle. Effects of travelling at different speeds [n.d.] (4p) manuscript.

List of references [n.d.] 1 page. Manuscript.

12 Ion Duplex. List of varying components [n.d.] manuscript.

Arnold (type of engine?) Dimensions of vehicle and effects of varying components [n.d.] (7p) manuscript.

Gors, Barbier, Avi and Aspinall. 3 pages on Gors, 5 on Barbier, 2 on Avi and 1 on Aspinall [n.d.] (11p) ill. Manuscript.

G, N & City [n.d.] (3p) ill. Manuscript.

Bengal-Napur Railway Co. 1906 May (4p) manuscript.

The resistance of goods trains. Notes on an article in The Engineer, 1910 May. Written 1910 July. 1 page, manuscript.

List of references to articles, dating 1894 to 1899 [n.d.] (2p) manuscript.

Reference on curves. Formulae and notes (one is written on the back of a letter from Kenton & Co dated 1902 Jan) [n.d.] (7p) manuscript.

List of references, some crossed out [n.d.] 1 page, manuscript.

Notes on two articles, one on Sharp Bicycles, the other in Circuits, Vol31, 1871 [n.d.] 2 pages, manuscript.

Dio. Notes and equations [n.d.] (5p) ill. Manuscript.

Wellington. Notes and equations [n.d.] (5p) ill. Manuscript.

Reference to article in Revue General des Chemins de Fers, 1890 May [n.d.] 1 page, manuscript.

Von Borries. Notes and equations [n.d.] (2p) manuscript.

Correspondence 1902 Feb from P V McMahon concerning weight of a coach with one bogie. 1p. Holograph signed.

Skin resistance and air friction. Notes and equations [n.d.] (14p) ill. Manuscript.

Numbered list of references (37-46) 1 page. Manuscript.

Notes on articles [n.d.] 1 page, manuscript.

Roller bearings: centrifugal force of motions. Notes and equations [n.d.] (9p) Manuscript.

Notes on 'Enquiries sur les moques de journier les accidents de Chemins de Fer 1879-1880. Paris 1882 [n.d.] 1 page, manuscript.

Notes and equations [n.d.] (2p) manuscript.

Storage of energy [n.d.] (4p) manuscript.

2 graphs (no titles) [n.d.] (2p) ill.

Heat. IVA. Contents list and notes [n.d.] (6p) manuscript.

Sound. Notes on harmonic motion, vibration, pitch etc [n.d.] (10p) ill. Manuscript.

Natural Phenomena. Includes notes on glaciers, earth movements and volcanoes. 1916 Dec (10p + one article) ill. Manuscript.

Heat. Notes on specific heat, vapourisation, latent heat and thermometers [n.d.] (13p) manuscript.

Heat. Notes on the nature of heat, thermometers, temperature and the expansion of solids and gases [n.d.] (9p) manuscript.

Shape of the Earth and its rotation. Notes [n.d.] (8p) ill. Manuscript.

Sundial. Notes on sundials [n.d.] 1 page, manuscript.

Motion. Notes and equations [n.d.] (7p) ill. Manuscript.

Machines. Includes notes on friction, the pulley and equilibrium [n.d.] (9p) ill. Manuscript.

Moments (B). Includes notes on the centre of gravity of objects [n.d.] (5p) ill. Manuscript.

References [n.d.] 2 pages. Manuscript.

Drawings (no titles) [n.d.] (19p) manuscript.

Tables showing angle of truck on curves of various radii. Wheelbase 18'-0"
(3 copies each with different rotations) [n.d.] (3p).

Burnley Corporation Tramways - Car no.43 tyre sections. 1908 Feb. 1 page,
ill.

Map of Bradford City Tramways. Scale 1" to 1 mile. Colour [n.d.]

Burnley Corporation Tramways - Car no.47. Simpson - Park Radial Trucks. 1908
July. 1 page, ill. Manuscript.

Bradford Double Gauge Car 124 (?) July. Notes only, 1 page, manuscript.

Burnley Corporation Tramways - section of tyres. Car no.47 1908, Feb. 1
page, ill.

Sketch showing method of oiling pneumatic truck control. 1908 March. 1 page.

Map (no title) hand drawn, not to scale. Shows Turf St, Plumbe St, Eastham
Place, St Mary's RC Church, Albert St, Convent, Belvedere Rd, Todmorden Rd and
the Wellington Arms [n.d.] 1 page, ill.

Map (no title) hand drawn, not to scale. Shows course of St James St and
Yorkshire St [n.d.] 1 page, ill.

S & P Tests Burnley July 1908. Map, hand drawn, not to scale. 1 page, ill.

Technical drawing of a carriage (no title) [n.d.] 1 page, ill.

Technical drawing of a carriage (no title) [n.d.] 1 page, ill.

Technical drawing of section of engine (no title) 1907, April. From Reavell
& Co Ltd, 1 page, ill.

Estler Brothers Pilot Frame and Gear. Scale half size. 1907 April. 1 page,
ill.

Technical drawing of a carriage (no title) [n.d.] 1 page, ill.

Estler Brothers Bracket to carry pilot frame. Scale full size. 1907 March.
1 page, ill.

Technical drawing of a carriage (no title) [n.d.] 1 page, ill.

Notes on pilot wheels [n.d.] 1 page, manuscript.

Technical drawings of wheel bearing (no title) [n.d.] 1 page, ill.

Results of tests for comparative radiation. 1908 May. Table by Harold Shand.
1 page.

Suggestions for working cylinder. 1908 March. By Harold Shand. 1 page, ill.

Drawing on waxed linen (no title) [n.d.] 1 page.

Graph. Scales 'Vitesse en kilometres a cheure' against 'Efforts on Kilos' (no title) [n.d.] 1 page, ill.

Comparative test of radial trucks with and without link suspension [n.d.] 1 page, ill.

Cylinder for automatic truck control. Scale 6" = 1 ft. 1907 May. 1 page, ill.

Estler Brothers pilot truck survival. 1912 Sept. 1 page, ill.

Estler Brothers pilot truck. 1907 May. 1 page, ill.

General arrangement of pneumatic truck control. Scale 3" = 1 ft. 1907 April. 1 page, ill.

Bracket for fixing pilot frame to sub-truck. Scale half size. 1907 April. 1 page, ill.

Memorandum regarding radial trucks. From J H McGraw. 1904 October. 1 item, 2 pages, typescript.

Radial truck control. 1909 March. 1 item, 7 pages, typescript with handwritten notations.

Technical drawing of a truck. Scale 1 1/2" to 1" [n.d.] 1 page, ill.

Archives: CAR

CARUS-WILSON

BOX 2 OF 2

1. Electro-Dynamics: the direct current motor by C A Carus-Wilson. 1898. Monograph. 298p. ill.

OFFPRINTS

2. On the behaviour of steel under mechanical stress/Carus-Wilson IN Philosophical Magazine, 1890 Feb (11p) ill.

3. The rupture of steel by longitudinal stress/Carus-Wilson IN Proceedings of the Royal Society, Vol.49, 1890 March (15p) ill.

4. On the distribution of flow in a strained elastic solid/Carus-Wilson IN Philosophical Magazine, 1890 June (5p) ill.

5. Der Achshucks-Komprenor (11p) ill.

6. Special report on Peckham 14-D-5 maximum traction truck/George L Fowler-New York: Peckham 1904 Feb (4p) ill.

7. Peckham patent radial truck No.547. Diagram [n.d.].

8. De l'influence sur la flexion des poutres de la position superficielle de la charge/ M A Flamant (mentions Carus-Wilson) IN Annales des ponts et chaussees, 1893 Aug.

9. Train resistance/John Audley Frederick Aspinall - London: Institution of Civil Engineers 1901 (40p) plus notes by Carus-Wilson. ill.

10. The origin of the solar system/Dr J H Jeans - London: Royal Institution, 1924 Feb. 20p. ill.

11. Atmospheric resistance to the motion of railway trains/Prof. W F M Gors IN Proceedings of the Western Railway Club [n.d.] 28p. ill.

12. A scheme for the comparison of climates/W F Tyler IN Journal of Balreology and Climatology, 1904 Feb. 31p. ill.

13. Cyclist awarded £175 damages. Newspaper clipping [n.d.] mentioning Carus-Wilson.

14. British and American Railways/Com Supp to the Times 1905 Nov. Newspaper cutting.

15. Grand Truck Pacific Railway/Com Supp to the Times 1905. Newspaper cutting.

16. Electrical locomotive/William C Unwin [n.d.] Newspaper cutting.

17. Horse-power of electric trams/R S Ball [n.d.] Newspaper cutting.

18. Excerpt from Liquid Fuel on the Great Eastern Railway IN Engineering Times [n.d.] 285-288pp. ill.
19. Track surface and line IN Electrical Review, 1905 Sept. 3p.
20. Review of 'Les accumulateurs electriques' by L Juman IN La Revue Electrique No.14, 30 July 1904. 5p. ill.
21. 'Railway Engineering' IN The Engineering Review, pp.34-50. ill. [n.d.].
22. Patent No.15,059. Improvements in radial railway and tramway trucks. Reprinted 1906 2 August. 5p. ill.
23. Patent No.19,714. Improvements in trucks for self propelled vehicles. 2nd ed. 1905, 31 August. 5p. ill.
24. Patent No.29,645. Improvements in and relating to power driven vehicles, 1908 29 February. 3p. ill.
25. Philosophical magazine and journal of science - London: Vol.32, No.199, 1891 Dec. 87p. ill.
26. The influence of surface-loading on the flexure of beams/Prof. C A Carus-Wilson IN Philosophical magazine, 1891, Dec.
27. Polyphase electric traction/Prof. C A Carus-Wilson - London: Institution of Mechanical Engineers. 1900 June. 27p. ill.
28. Ezekiel's vision of the divine glory/C A Carus Wilson. Being a paper read before the Victoria Institute. 1909 5 April. 8p. ill.
29. The design of electric railway motors for rapid acceleration/Prof. Charles A Carus-Wilson. Excerpt from the journal of the proceedings of the Institution of Electrical Engineers, part 136, Vol.XXVPI, 1898 May. 57p. ill.
30. The predetermination of train resistance/Charles Ashley Carus-Wilson. Excerpt Minutes of the Proceedings of the Institution of Civil Engineers, Vol.CLXXI, session 1907-1908. 95p. ill.
31. The vision of the divine glory/Ashley Carus-Wilson IN The Interpreter, Vol.6, No.1, 1909 October. 11p. ill.
32. Properties of materials: an introductory course/C A Carus-Wilson FROM The School Science Review, No.10, 1921 Dec. 9p.
33. The teaching of science in secondary schools/Prof. C A Carus-Wilson IN Journal of the Royal Society of Arts, Vol.LXXIII, No.3761, 1924 Dec. 14p.
34. The resistance of railway trains/C A Carus-Wilson FROM Bulletin of the International Railway Congress Association, 1908 Aug. 6p.

35. The tramways and light railways association, official circular, 1908 July. 38p.
36. Rail Cornigation/Prof. C A Carus-Wilson FROM Tramway Congress of the Tramways and Light Railways Association at the Trans-British Exhibition, 1908 July. 6p. ill.
37. Pneumatic despatch/Prof. C A Carus-Wilson. A paper read before the Society of Arts, 1900 Feb. Reprinted from the journal of the Society of Arts. 12p. ill.
38. As above, complete journal.
39. Cantor lectures on electric traction. Delivered before the Society for the Encouragement of Arts, Manufactures and Commerce, 1898 May. 43p. ill.
40. Electrical traction on steam railways in Italy/Prof. C A Carus-Wilson-London: Institution of Electrical Engineers. Excerpt from the Journal of the Proceedings of the Institution of Electrical Engineers. 1902. 30p. ill.
41. Old Hailenhurian Society, 12th Annual General Meeting, 1907 August 2nd. 36p.
42. The Tramways and Light Railways Association official circular, 1906 March. 11p. ill.