

ARCH : SOCC

Material, 1890s-1930s, re work of Sherard Osborn Cowper-Coles (1866-1936), chiefly re his work as an electro-metallurgist and, in particular, the 'sherardising' process]

- 1 "Articles by Sherard Cowper-Coles" [volume]
- [1901?] The Cowper-Coles centrifugal copper process. Reports and tests
- [1901?] Some notes on the production and refining of copper
- 1893 Dec The Cowper-Coles electro galvanizing process. [The Engineer]
- 1898 Jan The removal of mill scale by electricity. [Electrical Review]
- 1897 Nov Electro-zincing. [Trans. Liverpool Eng. Soc. XIX]
- 1898 The electro-deposition of cadmium and its alloys. [Aluminium and Electrolysis]
- [1901?] Cowper-Coles' process for welding aluminium
- 1901 Mar Aluminium welding. [Electro-Chemist and Metallurgist]
- 1899 Nov The electrolytic treatment of complex sulphide ores/Society of Engineers
- 1900 Jan An electrolytic centrifugal process for the production of copper tubes. [Journal of the Proc. Inst. Elec. Eng. XXIX]
- 1900 Apr Zinc as a protective coating for iron and steel/Cleveland Instn. of Engineers
- 1901 Jun Some electrolytic processes for the manufacture of white lead. [Electro-Chemist and Metallurgist and Metallurgical Review]
- 1901 Mar-Apr An electrolytic process for the manufacture of parabolic reflectors for searchlights and locomotive headlights. [Electro-Chemist and Metallurgist]
- New metallic mirror for searchlights. [Electrical Magazine]
- 1905 Jul Some notes on the rapid electro-deposition of copper. [Trans. Faraday Soc. Vol. 1]
- 1905 Nov The rendering of iron and steel non-corrosive. [Trans. Liverpool Eng. Soc. XXVII]
- 1922 Feb 'Experiments with Sherardizing' by Leon McCulloch. [Trans. American Inst. of Min. & Metal. Eng.]
- 1905 Oct "Sherardising". A new process for the protection of iron and steel from corrosion. [The Magazine of Commerce]

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| 1906 Nov | Recent storage battery improvements/Society of Engineers |
| 1906 Nov | --- as above --- [abstract] |
| [c.1900?] | Draft: Reports, letters and press extracts relating to some of the inventions mentioned in the prospectus of The Cowper-Coles Inventions Development Co. Limited |
| 1906 Aug | Electro positive coatings for the protection of iron and steel from corrosion. [The Engineering Times] |
| 1907 May | Sheffield plate and electro-plate/Applied Art Section, Society of Arts |
| 1908 Jul | The direct production of copper tubes, sheets, and wire. [Min. Proc. Inst. Mech. Eng.] |
| 1908 | The production of finished iron sheets and tubes in one operation. [Journal Iron & Steel Inst. no. III] |
| 1908 Jan | The deposition of zinc for protecting iron and steel surfaces. [Trans. Glasgow Technical College Scientific Soc. vol. IV, pt. 4] |
| 1909 Apr | Vapour-galvanising. [Journal Society of Chemical Industry] |
| - | The importance of electro-chemistry as bearing on the electrical industry. [Electrical Magazine] |
| - | Some notes on electro-galvanising. [Electrical magazine] |

[Articles by Sherard Cowper-Coles (loose)]

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| 1898 Apr | Some notes on the recovery of gold from cyanide solutions/Inst. of Mining & Metallurgy |
| 1899 Dec | Notes on the electro-deposition of chromium/Inst. of Mining & Metallurgy |
| 1905 Nov | The metallic preservation and ornamentation of iron and steel surfaces/Society of Engineers |
| 1906 May | Damascening and the inlaying and blending of metals/Society of Arts |

Added to Science Museum Library book stock

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| E E Ruder | The protection of metals from oxidation at high temperatures. Detroit; Calorizing Corp. of America 1918. [S/M 621.793 RUDER] |
| - | Rustproofing processes. A treatise on the application of protective paints and various zinc-coating and chemical processes for resisting or preventing the corrosion of iron and steel. New York; The Industrial Press 1921. [S/M 621.793 RUSTPROOFING] |

- 2 [Printed trade literature: booklets, leaflets etc of British and American companies re Cowper-Coles products and processes, chiefly 'Sherardizing'] [1 box file]
- 3 -
miscellaneous Notes on some of the C C Processes. [Folder containing printed items re rustproofing, 'leadising', forrozing, ironizing, silver-plating, electrogalvanizing, etc.]
- 4 - Pamphlets and ... literature on the rustproofing processes and The Wunway glass process and Latis glass process. [Folder; includes numerous photos]
- 5 1916-1917 Cowper-Coles process for leadising corrugated iron sheet electrolytically
[limp covers]
- 6 - [Working notebook (bearing bookplate of S.O. Cowper-Coles), full of ms. and ts. notes re processes. Arranged alphabetically by subjects covered; includes numerous illustrations, a section on patents; a number of loose items tipped in]
- 7 - [Binder containing ts. articles: 'The Sherardising process'; 'A general consideration on the marketing of the Sherardising processes'; 'Modern Sherardising practice' (2 copies), all by P.L. Cowper-Coles. First and second are illustrated with numerous photos. Loose at front is photo of Science Museum display case of Sherard Cowper-Coles & Co. Ltd., 82 Victoria St., London, electro-metallurgists, re 'Sherardizing: a new process of rendering iron non-corrosive'. Stuck in at
back of binder is 'list of processes']
- 8 1898-1909 Parabolic Reflectors. [Volume of cuttings from the technical press]
- 9 1890-1924 Patents. [Volume of patents of Sherard Cowper-Coles (often with others), 1890-1923, numbered 1-211 (the last two dated 1926 and 1933 USA). With, in pocket at front, index to nos. 1-211, and (loose) two further patents of 1932-33, and ts. patent specification of 1922]
- 10 [Drawings re aspects of various processes, and equipment and plant pertaining thereto. 32 of the more fragile of them have been conserved by being unfolded and sealed in Melinex] [2 folders, 83 drawings in total]
- 11 - [Miscellaneous papers. Originally in envelopes bearing titles with no direct relevance to contents, these papers have been kept in their respective bundles but transferred to folders. They comprise trade literature (booklets, brochures and pamphlets and advertising pages from magazines); draft patent specifications and correspondence from patent agents and Patent Office; cuttings from the technical press; reports (internal and external) on numerous processes; articles, both by others, taken from the technical press, and (draft) by Cowper-Coles. /4 largely consists of draft chapters (for projected book *Protective Coatings for Iron and Steel?*) on the theory of 'sherardising'; /5 is the disbound leaves of a working diary (of S.Cowper-Coles?) for Jan-Mar 1936, with many items pasted in and other loose items tipped in] [11 folders in 3 boxes]

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