

Title (en)
Method for treating aluminium surfaces.

Title (de)
Verfahren zur Behandlung von Aluminiumoberflächen.

Title (fr)
Procédé pour le traitement de surfaces en aluminium.

Publication
EP 0396238 A1 19901107 (EN)

Application
EP 90302769 A 19900315

Priority
GB 8906160 A 19890317

Abstract (en)
Solutions of hydrogen peroxide in sulphuric acid are used to treat aluminium metal, to form an artificially applied oxide layer having a profiled surface with protrusions which is very suitable for adhesive bonding or the application of organic coatings. A copper salt may be used as an accelerator, alone or with an amine. Treatment may be effected at temperatures up to 90°C. An inorganic coating may be applied to overlies and protect the profiled oxide layer. An advantage is the possibility of using aluminium metal without a prior cleaning step.

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C09J 5/02; C23C 22/56

IPC 8 full level
C23C 20/02 (2006.01); **C23C 22/56** (2006.01); **C23C 28/04** (2006.01)

CPC (source: EP KR)
C23C 20/00 (2013.01 - KR); **C23C 22/56** (2013.01 - EP)

Citation (search report)
• [YD] EP 0034040 A1 19810819 - BNF METALS TECH CENTRE [GB]
• [Y] EP 0267868 A2 19880518 - UNITED TECHNOLOGIES CORP [US]
• [A] EP 0273698 A2 19880706 - ALBRIGHT & WILSON [GB]
• [A] CH 540350 A 19730815 - ITO HIKARU [JP]
• [A] FR 1567752 A 19690516
• [A] GB 2032963 A 19800514 - DART IND INC
• [YD] CHEMICAL ABSTRACTS, vol. 90, no. 2, 8th January 1979, page 77, résumé no. 7748s, Columbus, Ohio, US; & JP-A-78 97 037 (ASAHI GLASS CO., LTD) 24-08-1978

Cited by
EP1669477A1; EP1096039A3; US9677166B2

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