Title (en)

LOW SLUDGING COMPOSITION AND PROCESS FOR TREATING ALUMINUM AND ITS ALLOYS

Title (de)

AUSSCHEIDUNGSARME ZUSAMMENSETZUNG UND VERFAHREN ZUM BEHANDELN VON ALUMINIUM UND SEINEN LEGIERUNGEN

Title (fr)

COMPOSITIONS RESISTANT A LA PRECIPITATION ET PROCEDE DE TRAITEMENT DE L'ALUMINIUM ET DE SES ALLIAGES

Publication

EP 0799326 A4 19971210 (EN)

Application

EP 95943426 A 19951222

Priority

- JP 32054594 A 19941222
- US 9516231 W 19951222

Abstract (en)

[origin: WO9619595A1] A highly corrosion-resistant, strongly paint-adherent conversion coating is formed on the surface of aluminiferous metal substrates by contacting such surfaces for 0.5 to 60 seconds with a sludging-free water-based surface treatment bath that has a pH of 1.5 to 4.0 and contains a zirconium compound, phosphoric acid compound, oxidizing agent, and a compound that is a source of hydrogen fluoride (in a quantity that produces a concentration of from 0.0001 to 0.2 g/L HF in the treatment bath). This contact is preferably followed by a water rinse and drying.

IPC 1-7

C23C 22/10

IPC 8 full level

C23C 22/00 (2006.01); **C23C 22/07** (2006.01); **C23C 22/10** (2006.01); **C23C 22/34** (2006.01); **C23C 22/36** (2006.01)

CPC (source: EP)

C23C 22/361 (2013.01)

Citation (search report)

- [L] JP S5424232 A 19790223 - NIPPON PACKAGING KK
- [X] EP 0411606 A2 19910206 - NIPPON PAINT CO LTD [JP]
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- [E] EP 0726968 A1 19960821 - HENKEL CORP [US]
- [E] EP 0754250 A1 19970122 - HENKEL CORP [US]
- [X] CHEMICAL ABSTRACTS, vol. 90, no. 26, 25 June 1979, Columbus, Ohio, US; abstract no. 208761q, NIHON PARKERIZING: "Surface treatment of Aluminum" page 303; XP002001672 & JP S5424232 A 19790223 - NIPPON PACKAGING KK
- See references of WO 9619595A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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