

Title (en)

METHOD FOR INHIBITING STAINS ON ALUMINUM PRODUCT SURFACES

Title (de)

VERFAHREN ZUR INHIBIERUNG VON FLECKEN AUF ALUMINIUMOBERFLÄCHEN

Title (fr)

PROCEDE D'INHIBITION DE TACHES A LA SURFACE DE PRODUITS EN ALUMINIUM

Publication

EP 1088119 A2 20010404 (EN)

Application

EP 99930410 A 19990618

Priority

- US 9913827 W 19990618
- US 9001798 P 19980619
- US 33567699 A 19990618

Abstract (en)

[origin: WO9966104A2] A method for inhibiting the formation of stains, especially water stains, on the exterior surfaces of aluminum alloy products. The method entails contacting the exterior surfaces of these products, particularly sheet or plate products, extrusions and/or forgings made from 5000 or 6000 Series aluminum alloys, with an organophosphonic or organophosphinic acid-derived material. Preferably, liquid forms of this material are added to an alcohol or water-based carrier solution, then sprayed, dipped, painted or rolled onto the surfaces of flat sheet or plate products to enhance their brightness. Other more complex shapes may be dipped into material baths.

IPC 1-7

C23F 1/00

IPC 8 full level

C09K 3/00 (2006.01); **B05D 1/18** (2006.01); **C23C 22/03** (2006.01); **C23C 22/08** (2006.01); **C23C 22/20** (2006.01); **C23C 22/68** (2006.01); **C23F 11/167** (2006.01)

CPC (source: EP US)

B05D 1/185 (2013.01 - EP US); **B82Y 30/00** (2013.01 - EP US); **B82Y 40/00** (2013.01 - EP US); **C23C 22/03** (2013.01 - EP US); **C23C 22/08** (2013.01 - EP US); **C23C 22/20** (2013.01 - EP US); **C23F 11/1676** (2013.01 - EP US)

Citation (search report)

See references of WO 9966104A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9966104 A2 19991223; **WO 9966104 A3 20000330**; AU 4695799 A 20000105; BR 9912174 A 20010410; CA 2336186 A1 19991223; EP 1088119 A2 20010404; JP 2002518594 A 20020625; US 2002011280 A1 20020131

DOCDB simple family (application)

US 9913827 W 19990618; AU 4695799 A 19990618; BR 9912174 A 19990618; CA 2336186 A 19990618; EP 99930410 A 19990618; JP 2000554905 A 19990618; US 86695301 A 20010529