

Title (en)

AQUEOUS SURFACE CONDITIONER AND SURFACE CONDITIONING METHOD FOR PHOSPHATING TREATMENT

Title (de)

WÄSSRIGES OBERFLÄCHENKONDITIONIERUNGSMITTEL UND OBERFLÄCHENKONDITIONIERUNGSVERFAHREN FÜR DIE PHOSPHATIERUNGSBEHANDLUNG

Title (fr)

AGENT AQUEUX DE PREPARATION DE SURFACE ET PROCEDE DE PREPARATION DE SURFACE POUR PHOSPHATATION

Publication

EP 1368508 A4 20091125 (EN)

Application

EP 02714695 A 20020108

Priority

- JP 2001001885 A 20010109
- US 0200273 W 20020108

Abstract (en)

[origin: WO02061176A1] An aqueous surface conditioner for use in a phosphating treatment is provided which contains crystals having an average diameter of 5 μ m or less in an amount of at least 0.1 g/L. The crystals are selected to have a two-dimensional epitaxy that matches within 3 % of misfit with the crystal lattice of one phosphate coating selected from among (1) hopeite /Zn₃(PO₄)₂·4H₂O and/or phosphophyllite (Zn₂Fe(PO₄)₂·4H₂O), (2) scholzite (CaZn₂(PO₄)₂·2H₂O) and (3) hureaulite (Mn₅(PO₄)₂[PO₃(OH)]₂·4H₂O).

IPC 1-7

C23C 22/78

IPC 8 full level

C23C 22/07 (2006.01); **C23C 22/12** (2006.01); **C23C 22/18** (2006.01); **C23C 22/22** (2006.01); **C23C 22/78** (2006.01)

CPC (source: EP KR)

C23C 22/07 (2013.01 - KR); **C23C 22/78** (2013.01 - EP)

Citation (search report)

- [X] WO 9839498 A1 19980911 - HENKEL CORP [US], et al
- [X] WO 0005066 A1 20000203 - HENKEL CORP [US], et al
- [X] WO 9856962 A1 19981217 - HENKEL CORP [US], et al
- See references of WO 02061176A1

Cited by

EP2503025A1; WO2012126734A1; US9534301B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 02061176 A1 20020808; CA 2434306 A1 20020808; EP 1368508 A1 20031210; EP 1368508 A4 20091125; JP 2002206176 A 20020726; KR 20020060058 A 20020716; MX PA03005894 A 20050214; TW 538136 B 20030621

DOCDB simple family (application)

US 0200273 W 20020108; CA 2434306 A 20020108; EP 02714695 A 20020108; JP 2001001885 A 20010109; KR 20010088166 A 20011229; MX PA03005894 A 20020108; TW 90131602 A 20011220