

Title (en)

METHOD FOR APPLYING A PHOSPHATE COVERING AND USE OF METAL PARTS THUS PHOSPATED

Title (de)

VERFAHREN ZUM AUFBRINGEN EINES PHOSPHATÜBERZUGES UND VERWENDUNG DER DERART PHOSPHATIIERTEN METALLTEILE

Title (fr)

PROCEDE DE PHOSPHATATION UTILISATION DES PIECES EN METAL AINSI PHOSPHATEES

Publication

EP 1235949 A1 20020904 (DE)

Application

EP 01911738 A 20010306

Priority

- DE 10010355 A 20000307
- EP 0102498 W 20010306

Abstract (en)

[origin: US2004231755A1] The invention relates to a method for applying phosphate coatings to metallic surfaces by wetting with an aqueous, acidic phosphating solution and subsequent drying of the phosphating solution, usually without subsequent rinsing, in which the phosphating solution contains 26 to 60 g/l of zinc ions, 0.5 to 40 g/l of manganese ions, and 50 to 300 g/l of phosphate ions, calculated as P₂O₅. The invention further relates to a method for applying phosphate coatings to metallic surfaces by wetting with an aqueous, acidic phosphating solution and subsequent drying of the phosphating solution, usually without subsequent rinsing, which method is characterised in that the phosphating solution contains 10 to 60 g/l of zinc ions, 0.5 to 40 g/l of manganese ions, 50 to 300 g/l of phosphate ions, calculated as P₂O₅, and 0.5 to 120 g/l of peroxide ions, calculated as H₂O₂, and/or 0.5 to 50 g/l of polymers, copolymers and/or cross polymers.

IPC 1-7

C23C 22/18; **C23C 22/83**; **C23C 22/78**

IPC 8 full level

B05D 3/10 (2006.01); **C23C 22/13** (2006.01); **C23C 22/14** (2006.01); **C23C 22/16** (2006.01); **C23C 22/18** (2006.01); **C23C 22/36** (2006.01); **C23C 22/73** (2006.01)

CPC (source: EP KR US)

C23C 22/12 (2013.01 - KR); **C23C 22/182** (2013.01 - EP US); **C23C 22/184** (2013.01 - EP US); **C23C 22/73** (2013.01 - EP US)

Citation (search report)

See references of WO 0166826A1

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)

US 2004231755 A1 20041125; **US 7208053 B2 20070424**; AT E348203 T1 20070115; AU 4067901 A 20010917; AU 778285 B2 20041125; CA 2373145 A1 20010913; CN 100334255 C 20070829; CN 1372602 A 20021002; DE 10010355 A1 20010913; DE 50111634 D1 20070125; EP 1235949 A1 20020904; EP 1235949 B1 20061213; JP 2003526012 A 20030902; KR 100841156 B1 20080624; KR 20020038581 A 20020523; WO 0166826 A1 20010913

DOCDB simple family (application)

US 98091002 A 20020226; AT 01911738 T 20010306; AU 4067901 A 20010306; CA 2373145 A 20010306; CN 01801196 A 20010306; DE 10010355 A 20000307; DE 50111634 T 20010306; EP 0102498 W 20010306; EP 01911738 A 20010306; JP 2001565427 A 20010306; KR 20017014212 A 20011107