

Title (en)

Phosphate coatings for metal surfaces.

Title (de)

Phosphatbeschichtungen für Metalloberflächen.

Title (fr)

Revêtements en phosphate pour surfaces métalliques.

Publication

EP 0385806 B1 19940914 (EN)

Application

EP 90302271 A 19900302

Priority

JP 5056789 A 19890302

Abstract (en)

[origin: EP0385806A1] A process for phosphating a metal surface which comprises treating the metal surface with an acidic aqueous phosphate solution containing:- (a) from 0.1 to 2.0g/l of zinc ion; (b) from 5 to 40g/l of phosphate ion; (c) a phosphating accelerator comprising: (1) from 0.01 to 0.5g/l of nitrite ion, (11) from 0.05 to 5g/l of m-nitrobenzene sulfonate ion, or (iii) from 0.5 to 10g/l of hydrogen peroxide (base on 100% H₂O₂); and (d) from 0.01 to 10g/l of colloidal particles having an isoelectric point of 3 or less and an average particle diameter of 0.1 or less.

IPC 1-7

C23C 22/16; **C23C 22/17**

IPC 8 full level

C23C 22/12 (2006.01); **C23C 22/13** (2006.01); **C23C 22/14** (2006.01); **C23C 22/16** (2006.01); **C23C 22/17** (2006.01); **C23C 22/18** (2006.01)

CPC (source: EP)

C23C 22/14 (2013.01); **C23C 22/16** (2013.01); **C23C 22/184** (2013.01); **C23C 22/362** (2013.01)

Citation (examination)

EP 0201228 A2 19861112 - ALLEGHENY LUDLUM STEEL [US]

Cited by

CN103695881A; CN111321397A; CN103668149A; GB2340419A; AU712640B2; US5135583A; RU2510432C1; US6743302B2; US6241830B1; WO2022135778A1; WO9745568A1

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