

Title (en)  
PROCESS FOR PHOSPHATIZING METALS

Publication  
**EP 0154367 A3 19860820 (DE)**

Application  
**EP 85200192 A 19850215**

Priority  
DE 3408577 A 19840309

Abstract (en)  
[origin: ES8602152A1] A spray phosphating process, esp. for (galvanised) steel, employs a phosphating soln. contg. 0.2-0.5 g/l Zn 2+, 0-1 g/l Ni 2+, 8-20 g/l P2O5, 0.05-0.2 g/l NO2- and/or 0.1-1 g/l nitrobenzene sulphonate, and one or more activators selected from formate, nitrilo-triacetate, trichloroacetate and ethylene diamine tetraacetate. - The soln. pref. also contains one or more further activators selected from fluoride, hexafluorosilicate, tetrafluoroborate, glycolate, citrate, tartrate and condensed phosphate.  
[origin: ES8602152A1] A spray phosphating process, esp. for (galvanised) steel, employs a phosphating soln. contg. 0.2-0.5 g/l Zn 2+, 0-1 g/l Ni 2+, 8-20 g/l P2O5, 0.05-0.2 g/l NO2- and/or 0.1-1 g/l nitrobenzene sulphonate, and one or more activators selected from formate, nitrilo-triacetate, trichloroacetate and ethylene diamine tetraacetate. - The soln. pref. also contains one or more further activators selected from fluoride, hexafluorosilicate, tetrafluoroborate, glycolate, citrate, tartrate and condensed phosphate.

IPC 1-7  
**C23C 22/17**; **C23C 22/36**; **C23C 22/23**

IPC 8 full level  
**C23C 22/17** (2006.01); **C23C 22/23** (2006.01); **C23C 22/36** (2006.01)

CPC (source: EP US)  
**C23C 22/17** (2013.01 - EP US); **C23C 22/23** (2013.01 - EP US); **C23C 22/362** (2013.01 - EP US)

Citation (search report)  
• [Y] FR 1086955 A 19550217 - PARKER STE CONTINENTALE  
• [A] EP 0015021 A1 19800903 - METALLGESELLSCHAFT AG [DE], et al  
• [YD] CHEMICAL ABSTRACTS, Band 99, Nr. 26, Dezember 1983, Seite 273, Nr. 216843u, Columbus, Ohio, US; & JP - A - 58 144 477 (NIPPON PAINT CO., LTD.) 27-08-1983  
• [Y] CHEMICAL ABSTRACTS, Band 94, Nr. 22, Juni 1981, Seite 280, Nr. 179325a, Columbus, Ohio, US; & SU - A - 800 240 (SARATOV STATE UNIVERSITY) 23-01-1981

Cited by  
EP0399425A1; GB2196024A; US5919318A; EP0369616A3; US5039563A; EP0361375A1; AU617870B2; GB2208876A; GB2208876B; WO9532319A1

Designated contracting state (EPC)  
AT BE CH DE FR IT LI NL SE

DOCDB simple family (publication)  
**EP 0154367 A2 19850911**; **EP 0154367 A3 19860820**; **EP 0154367 B1 19880914**; AT E37203 T1 19880915; AU 3957485 A 19850912; AU 575380 B2 19880728; CA 1224121 A 19870714; CN 85101297 A 19870124; DE 3408577 A1 19850912; DE 3564967 D1 19881020; ES 541015 A0 19851201; ES 8602152 A1 19851201; GB 2155960 A 19851002; GB 8506049 D0 19850411; US 4637838 A 19870120; ZA 851761 B 19851127

DOCDB simple family (application)  
**EP 85200192 A 19850215**; AT 85200192 T 19850215; AU 3957485 A 19850306; CA 475958 A 19850307; CN 85101297 A 19850401; DE 3408577 A 19840309; DE 3564967 T 19850215; ES 541015 A 19850307; GB 8506049 A 19850308; US 70846385 A 19850305; ZA 851761 A 19850308