

Title (en)
METHOD OF PHOSPHATING METALS

Publication
EP 0056881 B1 19860212 (DE)

Application
EP 81201244 A 19811103

Priority
DE 3101866 A 19810122

Abstract (en)
[origin: ES8305050A1] A composition for the phosphatizing of metals, particularly iron and steel, which comprises an aqueous acidic, chlorate-containing zinc phosphate solution which contains from 0.5 to 1.5 g/liter Zn from 0.4 to 1.3 g/liter Ni from 10 to 26 g/liter P2O5 from 0.8 to 5 g/liter ClO3 and in which no nitrite is added, and in which the weight ratio of Zn to Ni shall be adjusted to a value of 1: (from 0.5 to 1.5), that of Zn to P2O5 to a value of 1: (from 8 to 85) and that of free P2O5 to a value of from (0.005 (at about 30 degrees C.) to 0.06 (at about 60 degrees C.)): 1. The composition is particularly useful in processes for the preparation of metal surfaces for electrophoretic coating, particularly for cathodic immersion coating.

IPC 1-7
C23C 22/14; **C25D 9/08**; **C25D 9/06**

IPC 8 full level
C23C 22/14 (2006.01); **C23C 22/18** (2006.01); **C23C 22/36** (2006.01); **C25D 9/06** (2006.01); **C25D 9/08** (2006.01)

CPC (source: EP US)
C23C 22/14 (2013.01 - EP US); **C23C 22/184** (2013.01 - EP US); **C23C 22/362** (2013.01 - EP US)

Cited by
EP0141341A1; EP0264811A1; EP0106459A1; EP0135622A1; US4708744A; US5904786A; EP0258922A1; EP0219779A3; FR2512840A1; WO9012901A1; WO9617977A1; WO8604931A1

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

DOCDB simple family (publication)
EP 0056881 A1 19820804; **EP 0056881 B1 19860212**; AT E17955 T1 19860215; CA 1183430 A 19850305; DE 3101866 A1 19820826; DE 3173781 D1 19860327; ES 508885 A0 19830401; ES 8305050 A1 19830401; GB 2093075 A 19820825; GB 2093075 B 19850522; IT 1190666 B 19880224; IT 8219228 A0 19820121; PT 74310 A 19820201; PT 74310 B 19830808; US 4389260 A 19830621

DOCDB simple family (application)
EP 81201244 A 19811103; AT 81201244 T 19811103; CA 392764 A 19811221; DE 3101866 A 19810122; DE 3173781 T 19811103; ES 508885 A 19820120; GB 8201900 A 19820122; IT 1922882 A 19820121; PT 7431082 A 19820119; US 33791682 A 19820108