

Title (en)

PROCESS FOR PHOSPHATIZING METALLIC SURFACES, AND SOLUTIONS FOR USE THEREIN

Publication

**EP 0111223 B1 19870610 (DE)**

Application

**EP 83111813 A 19831125**

Priority

DE 3244715 A 19821203

Abstract (en)

[origin: ES8502168A1] A process for phosphating metal surfaces, particularly iron, steel and zinc-plated steel, by treating them with aqueous, acidic zinc phosphate baths at only moderately elevated temperatures in the range of from 22 DEG to 38 DEG C. The baths used have 2 to 6 g/l of Zn 4 to 23 g/l of PO43- a free acid content of 0.05 to 0.4 points and a pH-value of 3.0 to 4.0. The ratio of Zn to PO43- is preferably in the range from 1:2 to 1:11. The baths can advantageously contain nickel-(II)-ions, with a nickel content not exceeding a Zn:Ni ratio of 1:0.5. This process gives iron-containing zinc phosphate layers having an iron content of from 5 to 20% by weight and is particularly useful for pretreatment for subsequent cathodic electro-dip-lacquering.

IPC 1-7

**C23C 22/12**; **C23C 22/36**

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 22/36** (2006.01)

CPC (source: EP US)

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**EP 0111223 A1 19840620**; **EP 0111223 B1 19870610**; AT E27715 T1 19870615; AU 2192083 A 19840607; AU 561955 B2 19870521; CA 1205726 A 19860610; DE 3244715 A1 19840607; DE 3371999 D1 19870716; ES 527732 A0 19841216; ES 8502168 A1 19841216; GR 81290 B 19841211; JP S59110785 A 19840626; TR 23183 A 19890606; US 4490185 A 19841225; ZA 839008 B 19840725

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