

Title (en)  
PHOSPHATING TREATMENT BEFORE ELECTROPHORETIC DIP PAINTING

Publication  
**EP 0287133 B1 19920325 (DE)**

Application  
**EP 88200219 A 19880209**

Priority  
DE 3712339 A 19870411

Abstract (en)  
[origin: EP0287133A1] For the phosphating of workpieces of steel or partially galvanised steel as a pretreatment for electrodeposit coating, the cleaned and rinsed workpieces are first activated with an aqueous, weakly alkaline solution containing titanium phosphate and then treated by a dipping process at a temperature from 40 to 60 DEG C with an aqueous acidic phosphating solution which contains 1.8 to 5 g/l of Zn 0.1 to 7 g/l of Fe(II) 8 to 25 g/l of P2O5 and 5 to 30 g/l of NO3 and in which the free acid/total acid ratio has been adjusted to 0.04 to 0.07. Preferably, the phosphating solution contains at most 3 g/l of zinc and 0.5 to 5 g/l of iron(II) and additionally manganese in a quantity of up to 3 g/l. Further suitable components of the phosphating solution are Co, Ni, hydroxylamine, fluorides, tartaric acid, citric acid and m- nitrobenzenesulphonate.

IPC 1-7  
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IPC 8 full level  
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CPC (source: EP)  
**C23C 22/13** (2013.01); **C23C 22/182** (2013.01); **C23C 22/362** (2013.01)

Cited by  
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