

Title (en)  
PHOSPHATING METAL SURFACES

Publication  
**EP 0135622 B1 19881207 (EN)**

Application  
**EP 83304846 A 19830822**

Priority  
EP 83304846 A 19830822

Abstract (en)  
[origin: EP0135622A1] Surfaces of iron-based metals or zinc-based metals are phosphated by contacting the metal surfaces with an acidic aqueous solution containing from 0.1 to 2.0 g/l of zinc ion, from 5 to 30 g/l of phosphate ion, from 0.2 to 3 g/l of manganese ion, and a conversion coating accelerator. The phosphated metal surfaces are then suitable for electrocoating.

IPC 1-7  
**C23C 22/00**

IPC 8 full level  
**C23C 22/18** (2006.01)

CPC (source: EP)  
**C23C 22/182** (2013.01); **C23C 22/184** (2013.01)

Cited by  
US5904786A; EP0439377A1; EP0401616A1; EP1012355A4; US4762572A; US5238506A; EP0448130A1; EP0261597A3; WO9015167A1

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

DOCDB simple family (publication)  
**EP 0135622 A1 19850403; EP 0135622 B1 19881207**; AT E39134 T1 19881215; BR 8400392 A 19850611; CA 1218284 A 19870224; DE 3378641 D1 19890112; ES 535314 A0 19860601; ES 8607423 A1 19860601; MX 161907 A 19910301

DOCDB simple family (application)  
**EP 83304846 A 19830822**; AT 83304846 T 19830822; BR 8400392 A 19840131; CA 446700 A 19840203; DE 3378641 T 19830822; ES 535314 A 19840821; MX 20003484 A 19840113