

Title (en)
PROCESS FOR FACILITATING COLD-FORMING

Publication
EP 0186823 B1 19910515 (DE)

Application
EP 85115775 A 19851211

Priority
US 68384184 A 19841220

Abstract (en)
[origin: EP0186823A2] A heavy phosphate coating suitable as a base for a lubricant, prior to cold deformation of a ferrous surface, is formed by application of an aqueous acidic phosphating solution containing phosphate, organic nitro compound or nitrate (introduced as an inorganic nitrate), zinc, manganese or iron and, to increase the coating weight, hydroxylamine, is an amount of at least 0.01% by weight.

IPC 1-7
C23C 22/12; **C23C 22/13**; **C23C 22/18**

IPC 8 full level
C23C 22/08 (2006.01); **C23C 22/12** (2006.01); **C23C 22/13** (2006.01); **C23C 22/18** (2006.01)

CPC (source: EP)
C23C 22/12 (2013.01); **C23C 22/13** (2013.01); **C23C 22/182** (2013.01)

Cited by
EP0327153A3; EP0287133A1; EP0315059A1; WO9848076A1; WO9320259A1

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

DOCDB simple family (publication)
EP 0186823 A2 19860709; **EP 0186823 A3 19880427**; **EP 0186823 B1 19910515**; AT E63575 T1 19910615; AU 5052285 A 19860626; AU 577424 B2 19880922; CA 1257527 A 19890718; DE 3543733 A1 19860703; DE 3582873 D1 19910620; ES 550112 A0 19870316; ES 8703943 A1 19870316; GB 2169620 A 19860716; GB 2169620 B 19880511; GB 8531408 D0 19860205; JP H0465151 B2 19921019; JP S61157684 A 19860717; ZA 859171 B 19860827

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