

Title (en)
PROCESS FOR THE CHEMICAL-CONVERSION TREATMENT OF ZINC OR ITS ALLOYS, CONCENTRATE AND BATH FOR PERFORMING THIS PROCESS

Publication
EP 0175606 B1 19890426 (FR)

Application
EP 85401650 A 19850814

Priority
FR 8412878 A 19840816

Abstract (en)
[origin: US4670066A] Process for the treatment by chemical conversion, within very short spaces of time of substrates of zinc or of one of its alloys especially of continuously zinc coated steel coils, wherein the bath employed in the phosphatization step proper comprises, besides the conventional constituents, a proportion of 0.3 to 2 g/l of Fe²⁺-ions, this bath comprising also from 0.2 to 1.5 g/l, preferably from 0.2 to 1.2 g/l/ of Zn²⁺ ions and from 0.3 to 2 g/l, preferably from 0.3 to 1.2 g/l of Ni²⁺ ions, the weight ratios Zn/Ni and Zn Fe being comprised between 0.1 and 5, these ratios being preferably comprised respectively between 0.4 and 2 and between 0.25 and 4.

IPC 1-7
C23C 22/12

IPC 8 full level
C23C 22/08 (2006.01); **C23C 22/12** (2006.01); **C23C 22/17** (2006.01)

CPC (source: EP US)
C23C 22/08 (2013.01 - EP US); **C23C 22/12** (2013.01 - EP US); **C23C 22/17** (2013.01 - EP US)

Cited by
EP0414301A1; EP1290244A4; EP0370535A1; EP0298827A1; US5045130A; EP0315059A1; US4865653A; US5236565A; AU617131B2; WO9504842A1

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

DOCDB simple family (publication)
US 4670066 A 19870602; AT E42578 T1 19890515; CA 1259549 A 19890919; DE 3569756 D1 19890601; EP 0175606 A1 19860326; EP 0175606 B1 19890426; FR 2569203 A1 19860221; FR 2569203 B1 19891222; JP H0774455 B2 19950809; JP S61136684 A 19860624

DOCDB simple family (application)
US 76592485 A 19850815; AT 85401650 T 19850814; CA 488745 A 19850815; DE 3569756 T 19850814; EP 85401650 A 19850814; FR 8412878 A 19840816; JP 17954485 A 19850816