

Title (en)

PROCESS FOR FORMING CONVERSION LAYERS ON ZINC AND/OR ZINC ALLOYS

Publication

**EP 0214571 B1 19890118 (DE)**

Application

**EP 86111976 A 19860829**

Priority

JP 19494085 A 19850905

Abstract (en)

[origin: JPS6256580A] PURPOSE:To obtain a chromating soln. having superior deterioration resistance by adding specified amounts of chromic acid, trivalent Cr ions, phosphate ions and zirconium fluoride ions in specified weight ratios. CONSTITUTION:An acidic soln. contg. 10-100g/l chromic acid, 1-21g/l trivalent Cr ions, 0.1-4g/l phosphate ions and 0.1-4g/l zirconium fluoride ions is used as a chromating soln. for a galvanized steel sheet. In the soln., the weight ratio of hexivalent Cr ions/trivalent Cr ions is 1.5/1-5/1, that of chromic acid/ zirconium fluoride ions is 5/1-100/1 and that of phosphate ions/zirconium fluoride ions is 1/2-2/1.

IPC 1-7

**C23C 22/24**; **C23C 22/30**; **C23C 22/33**

IPC 8 full level

**C23C 22/33** (2006.01); **C23C 22/38** (2006.01); **C23F 11/18** (2006.01)

CPC (source: EP US)

**C23C 22/38** (2013.01 - EP US)

Cited by

EP0348890A1; US5091023A; EP1024905A4; US6149735A; US5366567A; EP0877832A4; WO9105078A1; WO9914398A1; WO03040431A3; US10435806B2; US11591707B2; US6361622B1; USRE40406E; WO9206225A1; WO02055758A3

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**EP 0214571 A1 19870318**; **EP 0214571 B1 19890118**; AU 584454 B2 19890525; AU 6181586 A 19870312; CA 1274156 A 19900918; DE 3629382 A1 19870305; DE 3661845 D1 19890223; GB 2180263 A 19870325; GB 2180263 B 19890816; GB 8621414 D0 19861015; JP H0419313 B2 19920330; JP S6256580 A 19870312; NZ 217245 A 19881028; US 4749418 A 19880607; ZA 866712 B 19871125

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