

Title (en)

Corrosion protecting process for steel sheet, plated on one side with a Zn-Ni alloy

Title (de)

Verfahren zum Korrosionsschutz von Stahlblech, einseitig beschichtet mit einer Zn-Ni Legierung

Title (fr)

Procédé de protection contre la corrosion d'une tôle d'acier revêtue d'un alliage Zn-Ni sur l'une de ses faces

Publication

**EP 0658636 B1 19991229 (FR)**

Application

**EP 94470040 A 19941121**

Priority

FR 9315196 A 19931214

Abstract (en)

[origin: EP0658636A1] Corrosion inhibitor for a metallic material such as steel, of the type consisting of an aqueous solution containing an alkali metal nitrite, characterised in that the said solution contains 0.01 to 0.3 mol/l of an alkali metal nitrite, 0.01 to 0.3 mol/l of an alkali metal phosphate and phosphoric acid in the proportion of a quantity sufficient to maintain the pH of the said solution, measured at ambient temperature, between 6.9 and 7.2.

IPC 1-7

**C23F 11/18**; **C23G 1/00**; **C23C 22/68**

IPC 8 full level

**C23F 11/00** (2006.01); **C23C 22/68** (2006.01); **C23F 11/18** (2006.01); **C23G 1/00** (2006.01)

CPC (source: EP KR US)

**C23C 22/68** (2013.01 - EP US); **C23F 11/00** (2013.01 - KR); **C23F 11/188** (2013.01 - EP US); **C23G 1/00** (2013.01 - EP US)

Citation (examination)

- DE 4228470 A1 19940303 - HENKEL KGAA [DE], et al
- The international Water Conference, 35th Annual Meeting, October 1974, Pages 169-176. Engineers Society of Western Pennsylvania, Pittsburgh (US)

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 0658636 A1 19950621**; **EP 0658636 B1 19991229**; AT E188264 T1 20000115; CA 2137837 A1 19950615; DE 69422377 D1 20000203; DE 69422377 T2 20000824; ES 2141813 T3 20000401; FR 2713669 A1 19950616; FR 2713669 B1 19960105; JP 3398724 B2 20030421; JP H0835083 A 19960206; KR 100358219 B1 20030124; KR 950018670 A 19950722; US 5567354 A 19961022

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**EP 94470040 A 19941121**; AT 94470040 T 19941121; CA 2137837 A 19941212; DE 69422377 T 19941121; ES 94470040 T 19941121; FR 9315196 A 19931214; JP 33308594 A 19941214; KR 19940034009 A 19941213; US 34618894 A 19941122