

Title (en)

PROCESS FOR PRODUCING Zn-Ni ALLOY-PLATED STEEL SHEET HAVING EXCELLENT PRESS MOLDABILITY.

Title (de)

VERFAHREN ZUR HERSTELLUNG VON MIT ZINK-NICKEL-LEGIERUNG BESCHICHTETEN FEINBLECHEN MIT AUSGEZEICHNETEN PRESSVERFORMEIGENSCHAFTEN.

Title (fr)

PROCEDE DE PRODUCTION D'UNE FEUILLE D'ACIER A REVETEMENT EN ALLIAGE DE Zn-Ni PRESENTANT UNE EXCELLENTE APTITUDE AU MOULAGE PAR PRESSAGE.

Publication

**EP 0364596 A4 19900703 (EN)**

Application

**EP 89903215 A 19890315**

Priority

- CA 601174 A 19890530
- JP 8900276 W 19890315
- JP 6057588 A 19880316

Abstract (en)

[origin: EP0364596A1] A Zn-Ni alloy-plated steel sheet having stable moldability is produced by subjecting the plated surface of a Zn-Ni alloy (Ni content: 10 to 17 wt.%) -plated steel sheet to dipping, spraying or anodizing using a solution containing one or both of H<sub>2</sub>PO<sub>4</sub><-> and HPO<sub>4</sub><2->.

IPC 1-7

**C23C 22/07**; **C25D 5/48**; **C25D 11/34**

IPC 8 full level

**C25D 5/26** (2006.01); **B21D 22/20** (2006.01); **C23C 22/08** (2006.01); **C25D 5/48** (2006.01); **C25D 11/34** (2006.01)

CPC (source: EP)

**C23C 22/08** (2013.01); **C25D 5/48** (2013.01); **C25D 11/34** (2013.01)

Citation (search report)

- [A] FR 1581111 A 19690912
- [A] H.W. DETTNER et al.: "Handbuch der Galvanotechnik", Band III, 1969, pages 86-88, Carl Hanser Verlag, Munich, DE
- [A] WORLD PATENT INDEX LATEST, accession no. 81-86453D/47; & JP-A-56 130 477 (SUMITOMO METAL INDUSTRIES)
- See references of WO 8908730A1

Cited by

EP1348780A4; DE102015118869A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

**EP 0364596 A1 19900425**; **EP 0364596 A4 19900703**; **EP 0364596 B1 19960306**; CA 1338621 C 19961001; DE 68925858 D1 19960411; DE 68925858 T2 19960801; JP H01234592 A 19890919; JP H0535234 B2 19930526; WO 8908730 A1 19890921

DOCDB simple family (application)

**EP 89903215 A 19890315**; CA 601174 A 19890530; DE 68925858 T 19890315; JP 6057588 A 19880316; JP 8900276 W 19890315