

Title (en)

ALLOY GALVANIZED STEEL PLATE HAVING EXCELLENT SLIDABILITY

Title (de)

GALVANISIERTE STAHLPLATTE MIT AUSGEZEICHNETER GLEITEIGENSCHAFT

Title (fr)

PLAQUE D'ACIER GALVANISE PAR ALLIAGE, PRESENTANT D'EXCELLENTE PROPRIÉTÉS DE GLISSEMENT

Publication

**EP 1391530 A1 20040225 (EN)**

Application

**EP 01274269 A 20011205**

Priority

- JP 0110612 W 20011205
- JP 2001158364 A 20010528

Abstract (en)

An alloyed hot-dip galvanized steel sheet is obtained by forming a hot-dip galvanized layer on the surface of the steel sheet and then alloying the steel sheet. The steel sheet exhibits a potential of -850 mV or less when it is immersed in a zinc sulfate-sodium chloride electrolyte. Alternatively, when it is electrolyzed according to constant potential electrolysis process in a zinc sulfate-sodium chloride electrolyte at a potential in a range from -940 mV to -920 mV, the quantity of electricity consumed is less than or equal to 0.5 C/cm<sup>2</sup>. The steel sheet exhibits excellent processability and particularly excellent sliding property. <IMAGE>

IPC 1-7

**C23C 2/06**; **C23C 2/26**; **G01N 27/42**; **G01N 33/20**

IPC 8 full level

**C23C 2/26** (2006.01); **C23C 2/28** (2006.01); **G01N 27/42** (2006.01); **G01N 33/20** (2006.01)

CPC (source: EP KR US)

**C23C 2/06** (2013.01 - KR); **C23C 2/26** (2013.01 - EP US); **C23C 2/28** (2013.01 - EP KR US); **C23C 2/40** (2013.01 - KR); **C25D 11/34** (2013.01 - EP KR)

Designated contracting state (EPC)

BE DE FR IT NL

DOCDB simple family (publication)

**WO 02097151 A1 20021205**; CA 2411879 A1 20021204; CN 1443251 A 20030917; EP 1391530 A1 20040225; EP 1391530 A4 20051123; KR 20030023635 A 20030319; TW I245080 B 20051211

DOCDB simple family (application)

**JP 0110612 W 20011205**; CA 2411879 A 20011205; CN 01813079 A 20011205; EP 01274269 A 20011205; KR 20027016608 A 20021205; TW 90130128 A 20011205