

Title (en)

PROCESS FOR MANUFACTURING AN ELECTRIC SHEET FROM A HOT-ROLLED STEEL STRIP

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES ELEKTROBLECHS AUS EINEM WARMBANDSTAHL

Title (fr)

PROCÉDÉ POUR PRODUIRE UNE TÔLE MAGNÉTIQUE UTILISANT UN FEUILLARD D'ACIER LAMINÉ À CHAUD

Publication

EP 2812456 A1 20141217 (DE)

Application

EP 13709308 A 20130130

Priority

- DE 102012002642 A 20120208
- DE 2013000084 W 20130130

Abstract (en)

[origin: WO2013117184A1] The invention relates to a hot-rolled strip for manufacturing an electric sheet, consisting of the following alloy composition in wt%: C 0.001 to 0.08; Al 4.8 to 20; Si 0.05 to 10; B up to 0.1; Zr up to 0.1; Cr 0.1 to 4; the iron rest and contaminants caused by smelting.

IPC 8 full level

B21B 1/46 (2006.01); **B21B 15/00** (2006.01); **B22D 11/06** (2006.01); **C21D 8/12** (2006.01); **C22C 38/02** (2006.01); **C22C 38/06** (2006.01); **C22C 38/08** (2006.01); **C22C 38/28** (2006.01); **C22C 38/32** (2006.01); **C22C 38/34** (2006.01); **H01F 1/147** (2006.01)

CPC (source: EP RU US)

B21B 1/46 (2013.01 - US); **B21B 1/466** (2013.01 - US); **B21B 15/00** (2013.01 - US); **B22D 11/0631** (2013.01 - EP US); **C21D 8/12** (2013.01 - EP US); **C21D 8/1211** (2013.01 - US); **C21D 8/1216** (2013.01 - EP US); **C21D 8/1222** (2013.01 - EP US); **C21D 8/1233** (2013.01 - US); **C21D 8/1272** (2013.01 - US); **C22C 38/02** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/08** (2013.01 - EP US); **C22C 38/28** (2013.01 - US); **C22C 38/32** (2013.01 - EP US); **C22C 38/34** (2013.01 - EP US); **H01F 1/14791** (2013.01 - US); **B21B 1/46** (2013.01 - RU); **B21B 2015/0057** (2013.01 - US); **B21B 2015/0064** (2013.01 - US); **C21D 8/12** (2013.01 - RU); **C21D 2201/05** (2013.01 - EP US); **C22C 38/06** (2013.01 - RU)

Citation (search report)

See references of WO 2013117184A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102012002642 A1 20130808; **DE 102012002642 B4 20130814**; BR 112014019450 A2 20170620; BR 112014019450 A8 20170711; CN 104204237 A 20141210; CN 104204237 B 20170301; EP 2812456 A1 20141217; EP 2812456 B1 20190821; JP 2015513607 A 20150514; JP 2017197843 A 20171102; JP 6471190 B2 20190213; KR 102048791 B1 20200122; KR 20140129059 A 20141106; RU 2014136389 A 20160327; RU 2615423 C2 20170404; UA 112677 C2 20161010; US 2015013845 A1 20150115; WO 2013117184 A1 20130815

DOCDB simple family (application)

DE 102012002642 A 20120208; BR 112014019450 A 20130130; CN 201380008797 A 20130130; DE 2013000084 W 20130130; EP 13709308 A 20130130; JP 2014555939 A 20130130; JP 2017079834 A 20170413; KR 20147023792 A 20130130; RU 2014136389 A 20130130; UA A201409872 A 20130130; US 201314377396 A 20130130