

Title (en)

Manganese and magnesium rich aluminium strip

Title (de)

Mangan- und hoch magnesiumreiches Aluminiumband

Title (fr)

Bande d'aluminium riche en manganèse et très riche en magnésium

Publication

EP 2243849 B1 20130710 (DE)

Application

EP 09158704 A 20090424

Priority

EP 09158704 A 20090424

Abstract (en)

[origin: EP2243849A1] Aluminum alloy comprises (in wt.%): iron (less than 0.4); magnesium (0.41-0.7); silicon (0.05-0.25); manganese (0.1-0.6); copper (= 0.04); titanium (less than 0.1); zinc (= 0.1); chromium (= 0.1); and balance amount includes aluminum and unavoidable impurities each more than 0.05% to give a total of maximum 0.15%. Independent claims are included for: (1) an aluminum strip, for manufacturing lithographic printing plate support, made from the above aluminum alloy with a thickness of 0.15-5 mm; and (2) manufacturing aluminum strips comprising the above aluminum alloy comprising casting a ingot, homogenizing the ingot at 450-610[deg] C, hot-rolling the ingot to a thickness of 2-9 mm and cold-rolling the ingot with or without intermediate annealing to a thickness of 0.15-0.5 mm.

IPC 8 full level

C22C 21/00 (2006.01); **B21B 3/00** (2006.01); **C21D 8/00** (2006.01); **C21D 8/02** (2006.01); **C22C 21/06** (2006.01)

CPC (source: EP KR US)

B21B 3/00 (2013.01 - KR); **C21D 8/00** (2013.01 - EP US); **C21D 8/02** (2013.01 - EP KR US); **C22C 21/00** (2013.01 - EP US); **C22C 21/06** (2013.01 - EP KR US); **B21B 2003/001** (2013.01 - EP US); **Y10T 428/12229** (2015.01 - EP US)

Designated contracting state (EPC)

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 SE SI SK TR

DOCDB simple family (publication)

EP 2243849 A1 20101027; **EP 2243849 B1 20130710**; BR PI1015252 A2 20160503; CN 102439185 A 20120502; ES 2430620 T3 20131121; JP 2012524841 A 20121018; KR 20120010267 A 20120202; RU 2011147705 A 20130527; US 2012073711 A1 20120329; WO 2010122144 A1 20101028

DOCDB simple family (application)

EP 09158704 A 20090424; BR PI1015252 A 20100423; CN 201080018272 A 20100423; EP 2010055435 W 20100423; ES 09158704 T 20090424; JP 2012506519 A 20100423; KR 20117027959 A 20100423; RU 2011147705 A 20100423; US 201113278561 A 20111021