

Title (en)

EXTRUDED PRODUCTS IN ALUMINIUM ALLOY AL-MN WITH IMPROVED MECHANICAL STRENGTH

Title (de)

EXTRUDIERTER PRODUKTE IN DER ALUMINIUMLEGIERUNG AL-MN MIT ERHÖHTER MECHANISCHER FESTIGKEIT

Title (fr)

PRODUITS FILÉS EN ALLIAGE D'ALUMINIUM AL-MN À RÉSISTANCE MÉCANIQUE AMÉLIORÉE

Publication

EP 2171114 A1 20100407 (FR)

Application

EP 08835982 A 20080721

Priority

- FR 2008001074 W 20080721
- FR 0705510 A 20070727

Abstract (en)

[origin: WO2009043993A1] The invention relates to an extruded product, in particular a tube, made from an alloy of composition (% by weight): Si: < 0.30, Fe: < 0.30, Cu: < 0.05, Mn: 0.5 - 1.2, Mg: 0.5 - 1.0, Zn: < 0.20, Cr: 0.10 - 0.30, Ti < 0.05, Zr < 0.05, Ni < 0.05, others <0.05 each and <0.15 in total, remainder being aluminium. The invention further relates to a method for producing extruded tubes with said composition, comprising casting a billet, optional homogenisation thereof, the extruding of a tube, the drawing of said tube, in one or more passes and continuous annealing at a temperature between 350 and 500°C with a temperature rise of less than 10 seconds. Said tubes are used to advantage in cabin air-conditioning systems for motor vehicles using CO₂ as refrigerant gas.

IPC 8 full level

C22C 21/00 (2006.01); **C22F 1/04** (2006.01); **F28F 21/08** (2006.01)

CPC (source: EP US)

C22C 21/00 (2013.01 - EP US); **C22F 1/04** (2013.01 - EP US); **F28F 21/08** (2013.01 - EP US); **Y10T 428/12292** (2015.01 - EP US)

Citation (search report)

See references of WO 2009043993A1

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

FR 2919306 A1 20090130; FR 2919306 B1 20091002; BR PI0814138 A2 20150203; CN 101765674 A 20100630; EP 2171114 A1 20100407; EP 2171114 B1 20170322; JP 2010534766 A 20101111; KR 20100065289 A 20100616; MX 2010000785 A 20100330; US 2010190027 A1 20100729; WO 2009043993 A1 20090409

DOCDB simple family (application)

FR 0705510 A 20070727; BR PI0814138 A 20080721; CN 200880100602 A 20080721; EP 08835982 A 20080721; FR 2008001074 W 20080721; JP 2010517445 A 20080721; KR 20107004041 A 20080721; MX 2010000785 A 20080721; US 67053808 A 20080721