

Title (en)

ROLLED OR EXTRUDED ALUMINIUM AL-MN ALLOY PRODUCTS WITH IMPROVED CORROSION RESISTANCE

Title (de)

WALZ- ODER EXTRUSIONSPRODUKTE AUS AL-MN-LEGIERUNG MIT ERHÖHTER KORROSIONSBESTÄNDIGKEIT

Title (fr)

PRODUITS LAMINES OU FILES EN ALLIAGE D'ALUMINIUM AL-Mn A RESISTANCE A LA CORROSION AMELIOREE

Publication

EP 1349965 B1 20050216 (FR)

Application

EP 02700316 A 20020109

Priority

- FR 0200059 W 20020109
- FR 0100432 A 20010112

Abstract (en)

[origin: WO02055750A2] The invention concerns a rolled or extruded product, in particular a tube, made of an alloy composition (expressed in wt. %) comprising: Si < 0.30; Fe 0.20-0.50; Cu < 0.05; Mn 0.5-1.2; Mg < 0.05; Zn < 0.50; Cr 0.10-0.30; Ti < 0.05; Zr < 0.05; the balance consisting of aluminium and unavoidable impurities. The invention also concerns a method for making extruded tubes of said composition comprising casting a billet, optionally homogenizing it, extruding a tube, drawing said tube in one or several passes and continuous annealing at a temperature ranging between 350 and 500 DEG C with a temperature increase of less than 10 seconds. The inventive products are designed for pipes and heat exchangers for motor vehicles, and exhibit good corrosion resistance.

IPC 1-7

C22C 21/00; **C22F 1/04**

IPC 8 full level

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

CPC (source: EP US)

C22C 21/00 (2013.01 - EP US); **C22F 1/04** (2013.01 - EP US)

Cited by

EP3449026A4; US11255002B2; WO2022120639A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 02055750 A2 20020718; **WO 02055750 A3 20020926**; AT E289364 T1 20050315; AU 2002233405 A1 20020724; DE 60202994 D1 20050324; DE 60202994 T2 20060413; EP 1349965 A2 20031008; EP 1349965 B1 20050216; FR 2819525 A1 20020719; FR 2819525 B1 20030228; US 2004040634 A1 20040304; US 6896749 B2 20050524

DOCDB simple family (application)

FR 0200059 W 20020109; AT 02700316 T 20020109; AU 2002233405 A 20020109; DE 60202994 T 20020109; EP 02700316 A 20020109; FR 0100432 A 20010112; US 41651103 A 20030909