

Title (en)

METHOD FOR MAKING THIN, HIGH-STRENGTH, HIGHLY FORMABLE ALUMINIUM ALLOY STRIPS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON DÜNNBÄNDERN AUS ALUMINIUMLEGIERUNGEN MIT HOHER FESTIGKEIT UND VERFORMBARKEIT

Title (fr)

PROCEDE DE FABRICATION DE BANDES MINCES EN ALLIAGE D'ALUMINIUM A HAUTE RESISTANCE ET FORMABILITE

Publication

EP 0866738 A1 19980930 (FR)

Application

EP 96941719 A 19961209

Priority

- FR 9601956 W 19961209
- FR 9514881 A 19951212

Abstract (en)

[origin: WO9721508A1] A method for making aluminium alloy strips having high mechanical strength and good formability, comprising (a) providing an alloy containing 0.5-13 wt.% of Si, 0-2 wt.% of Mg and/or 0-1 wt.% of Mn and/or 0-2 wt.% of Cu and/or 0-2 wt.% of Fe, the other elements being present in an amount of 0.5 wt.% each and 2 % in total; (b) continuously casting the alloy between two cooled rolls to produce a cast strip with a thickness of 0.1-5 mm, the force applied to the rolls being maintained, in a specific force-thickness diagram, below a straight line AB and preferably below a straight line A'B', where the co-ordinates of A, B, A' and B' are A: 1.5 mm, 750 t/m; B: 5 mm, 500 t/m; A': 1.5 mm, 700 t/m; and B': 5 mm, 300 t/m; and (c) optionally rolling the strip. Such strips may be used, e.g., for making motor vehicle bodywork components.

IPC 1-7

B22D 11/06; **C22C 21/02**; **C22F 1/05**

IPC 8 full level

B21B 3/00 (2006.01); **B22D 11/06** (2006.01); **C22C 21/02** (2006.01); **C22F 1/00** (2006.01); **C22F 1/043** (2006.01)

CPC (source: EP KR US)

B22D 11/06 (2013.01 - KR); **B22D 11/0622** (2013.01 - EP US); **C22C 21/02** (2013.01 - EP KR US); **C22F 1/05** (2013.01 - KR)

Citation (search report)

See references of WO 9721508A1

Cited by

CN101818289A

Designated contracting state (EPC)

CH DE ES GB IT LI

DOCDB simple family (publication)

WO 9721508 A1 19970619; AU 1101297 A 19970703; DE 69617265 D1 20020103; DE 69617265 T2 20020704; EP 0866738 A1 19980930; EP 0866738 B1 20011121; ES 2163664 T3 20020201; FR 2742165 A1 19970613; FR 2742165 B1 19980130; JP 2000501995 A 20000222; KR 100434808 B1 20040908; KR 19990072038 A 19990927; US 6193818 B1 20010227

DOCDB simple family (application)

FR 9601956 W 19961209; AU 1101297 A 19961209; DE 69617265 T 19961209; EP 96941719 A 19961209; ES 96941719 T 19961209; FR 9514881 A 19951212; JP 52178997 A 19961209; KR 19980704332 A 19980610; US 7784198 A 19980611