

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 B1 20011121 (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

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CPC (source: EP KR US)

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Citation (examination)

P.M. Thomas & P.G. Grocock: "High speed thin strip casting comes of age", Conference Paper at ALUMITECH 94, Atlanta, USA, October 1994

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