

Title (en)

Easily workable and weldable aluminium alloy, and process for its manufacture

Title (de)

Gut bearbeitbare und schweisssbare Aluminiumlegierung und Verfahren zu ihrer Herstellung

Title (fr)

Alliage d'aluminium chaudronnable et soudable et son procédé de fabrication

Publication

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Application

EP 87420190 A 19870702

Priority

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- FR 8610028 A 19860707

Abstract (en)

[origin: US4814022A] A weldable aluminum alloy workable into sheet form containing Si, Mg and Cu, and a process for its production are disclosed. The alloy comprises (in percent by weight) proportions of Si and Mg as defined by a trapezium having the following co-ordinates: -Si Mg -(A) 0.5 0.1 -(B) 0.5 0.2 -(C) 1.3 0.5 -(D) 1.3 0.1 - Cu: 0.1-0.5; Mn: 0-0.2; Ti: 0-0.1; Fe: 0-0.35; other impurities each: ≤ 0.05 total impurity content: ≤ 0.15 balance Al. The production procedure comprises semi-continuous or continuous casting of blanks, an optional homogenisation operation, a hot transformation operation which is terminated in the range of 270 DEG to 340 DEG C., an optional cold transformation operation, a complete solution treatment, a shaping operation using stamping or pressing, folding, bending, etc . . . , and a tempering operation.

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Cited by

FR2713664A1; EP0714993A1; CH688379A5; EP0811700A1; CH690916A5; WO2013030469A1; WO9814626A1; WO9531580A1; WO9514113A1

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