

Title (en)

Deep drawable and weldable AlMgSi type aluminium alloy

Title (de)

Tiefziehbare und schweisssbare Aluminiumlegierung vom Typ AlMgSi

Title (fr)

Alliage d'aluminium du type AlMgSi soudable et apte à l'emboutissage profond

Publication

EP 0811700 B1 20020612 (DE)

Application

EP 97810320 A 19970526

Priority

CH 140196 A 19960604

Abstract (en)

[origin: EP0811700A1] A deep drawing weldable Al alloy of the AlMgSi type comprises: (i) the alloy elements Mg and Si limited by the trapezium ABCDE with coordinates A(Si:0.50; Mg:0.35), B(Si:0.50; Mg:0.60), C(Si:0.95; Mg:0.60), D(Si:0.95; Mg:0.40) and E (Si:0.80; Mg:0.35) and the alloy further contains additions of Cu 0.15-0.45; Mn 0.05-0.20; Fe 0.25-0.55 and Zn 0.15-0.50. Also claimed is the production of the alloy by continuous casting, hot or cold rolling and solution treatment at 520-580 degrees C up to the solidus temp. of the alloy.

IPC 1-7

C22C 21/02; **C22C 21/08**; **C22F 1/043**; **C22F 1/05**; **C22F 1/047**

IPC 8 full level

C22C 21/02 (2006.01); **C22C 21/08** (2006.01); **C22F 1/043** (2006.01); **C22F 1/047** (2006.01); **C22F 1/05** (2006.01)

CPC (source: EP)

C22C 21/02 (2013.01); **C22C 21/08** (2013.01); **C22F 1/043** (2013.01); **C22F 1/047** (2013.01); **C22F 1/05** (2013.01)

Cited by

EP0992598A4; CN104532080A; EP1533394A1; EP1433866A3; CH693673A5; FR2835533A1; WO2005049877A3; WO03066919A3; WO0052216A1; US8940406B2; US9193134B2; US9085328B2; US9242678B2; US9731772B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

EP 0811700 A1 19971210; **EP 0811700 B1 20020612**; AT E219158 T1 20020615; CH 690916 A5 20010228; DE 59707470 D1 20020718; ES 2177920 T3 20021216

DOCDB simple family (application)

EP 97810320 A 19970526; AT 97810320 T 19970526; CH 140196 A 19960604; DE 59707470 T 19970526; ES 97810320 T 19970526