

Title (en)

Aluminium die casting alloy

Title (de)

Aluminium-Druckgusslegierung

Title (fr)

Alliage à coulée sous pression en aluminium

Publication

EP 2735621 B1 20150812 (DE)

Application

EP 12193547 A 20121121

Priority

EP 12193547 A 20121121

Abstract (en)

[origin: EP2735621A1] The aluminum alloy has 9-11.5wt.% silicon, 0.45-0.8wt.% manganese, 0.2-1.0wt.% magnesium, 0.1-1.0wt.% copper, not > 0.2wt.% zinc, not > 0.4wt.% zirconium, not > 0.4wt.% chromium, not > 0.3wt.% molybdenum, not > 0.2wt.% iron, not > 0.15wt.% titanium, 0.01-0.02wt.% strontium, and balance aluminum and production-related impurities up to a total of not > 0.5wt.%. The aluminum alloy component in heat treatment exhibits a yield point of Rp-0.2 not less than 200 Megapascals and high elongation at break A not less than 9 percent.

IPC 8 full level

C22C 21/04 (2006.01); **B22D 21/00** (2006.01)

CPC (source: EP US)

B22D 21/007 (2013.01 - EP US); **C22C 21/02** (2013.01 - US); **C22C 21/04** (2013.01 - EP US); **C22F 1/043** (2013.01 - EP US)

Cited by

EP3176275A1; DE102015015610A1; EP3235917A1; WO2017182102A1; GB2565984A; DE102019205267B3; CN109072354A; EP3334850A4; KR20180132140A; WO2018046368A1; WO2017174185A1; DE102021131973A1; WO2023099080A1; US11421305B2; EP3176275B1; EP3176275B2; EP3235917B1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2735621 A1 20140528; EP 2735621 B1 20150812; CN 103834835 A 20140604; US 2014140886 A1 20140522; US 9322086 B2 20160426

DOCDB simple family (application)

EP 12193547 A 20121121; CN 201310643333 A 20131121; US 201314083990 A 20131119