

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)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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