

Title (en)

ALUMINIUM-SILICON CASTING ALLOY, AND CASTINGS MADE FROM SAID ALLOY

Title (de)

ALUMINIUM-SILIZIUM-GUSSLEGIERUNG UND DARAUS HERGESTELLTE GUSSTEILE

Title (fr)

ALLIAGE DE MOULAGE ALUMINIUM-SILICIUM ET PIÈCES MOULÉES FABRIQUÉES À PARTIR DUDIT ALLIAGE

Publication

EP 4101941 A1 20221214 (EN)

Application

EP 21178006 A 20210607

Priority

EP 21178006 A 20210607

Abstract (en)

Aluminium casting alloy, comprising, expressed in weight percent, from 3.5 % to 4.5 % of silicon ;from 0.35 % to 0.55 % of magnesium ;from 0.05 % to 0.25 % of chromium ;from 0.05 % to 0.30 % of nickel ;from 0.005 % to 0.020 % of strontium ;not more than 0.12 % of iron ;not more than 0.15 % of titanium ;not more than 0.05 % of manganese ;other impurities not more than 0.02 % each and not more than 0.10 % in total, the remainder being aluminium.

IPC 8 full level

C22C 1/02 (2006.01); **B22D 21/00** (2006.01); **C22C 1/03** (2006.01); **C22C 21/02** (2006.01); **C22C 21/04** (2006.01); **C22F 1/043** (2006.01)

CPC (source: EP)

B22D 21/04 (2013.01); **C22C 1/026** (2013.01); **C22C 1/03** (2013.01); **C22C 21/02** (2013.01); **C22C 21/04** (2013.01); **C22F 1/043** (2013.01)

Citation (applicant)

- US 2011116966 A1 20110519 - KAWAHARA HIROSHI [JP], et al
- JP 2011162883 A 20110825 - TOYOTA CENTRAL RES & DEV, et al
- EP 3370900 A1 20180912 - MUBEA PERFORMANCE WHEELS GMBH [AT]
- US 2019118251 A1 20190425 - HU BIN [CN], et al
- US 10612116 B2 20200407 - HU BIN [CN], et al
- CN 106319299 A 20170111 - CITIC DICASTAL CO LTD
- JP 2015045033 A 20150312 - NISSIN KOGYO KK
- EP 2700727 A1 20140226 - KSM CASTINGS GROUP GMBH [DE]
- EP 2954081 A1 20151216 - KSM CASTINGS GROUP GMBH [DE]
- D. ALTENPOHL: "Aluminium und Aluminiumlegierungen", 1965, SPRINGER VERLAG, pages: 811

Citation (search report)

- [YDA] EP 3162460 A1 20170503 - MUBEA PERFORMANCE WHEELS GMBH [AT]
- [YDA] EP 2954081 A1 20151216 - KSM CASTINGS GROUP GMBH [DE]
- [AD] WO 2010007484 A1 20100121 - TOYOTA MOTOR CO LTD [JP], et al
- [A] DE 102017103148 A1 20170907 - KSM CASTINGS GROUP GMBH [DE]

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4101941 A1 20221214; EP 4352273 A1 20240417; MX 2023014538 A 20240131; WO 2022259136 A1 20221215

DOCDB simple family (application)

EP 21178006 A 20210607; EP 22819725 A 20220607; IB 2022055280 W 20220607; MX 2023014538 A 20220607