Title (en)

ALUMINUM ALLOY FOR DIE CASTING AND ALUMINUM-ALLOY DIE CAST OBTAINED THEREFROM

Title (de)

ALUMINIUMLEGIERUNG FÜR KOKILLENGUSS UND DARAUS HERGESTELLTE ALUMINIUMLEGIERUNGSKOKILLE

Title (fr)

ALLIAGE D'ALUMINIUM POUR COULÉE SOUS PRESSION ET PIÈCE D'ALLIAGE D'ALUMINIUM MOULÉE SOUS PRESSION OBTENUE À PARTIR DUDIT ALLIAGE

Publication

EP 3216884 A4 20171213 (EN)

Application

EP 15879806 A 20150129

Priority

JP 2015000405 W 20150129

Abstract (en)

[origin: EP3216884A1] Provided are: an aluminum alloy for die casting, having castability equivalent to that of ADC12 and having high yield strength and high ductility; and an aluminum alloy die cast obtained through die-casting the alloy. That is, the aluminum alloy for die casting according to the present invention contains: Si by more than 6.00 wt% and less than 6.50 wt%; Mg by 0.10 to 0.50 wt%; Fe by not more than 0.30 wt%; Mn by 0.30 to 0.60 wt%; Cr by 0.10 to 0.30 wt%; and A1 and unavoidable impurities as a remaining portion of the aluminum alloy.

IPC 8 full level

B22D 21/04 (2006.01); **C22C 21/02** (2006.01)

CPC (source: EP US)

B22D 21/04 (2013.01 - EP US); **C22C 21/02** (2013.01 - EP US)

Citation (search report)

- [X] CN 102676887 B 20140416 - DONGGUAN WENYU IND CO LTD
- [A] JP 2002339030 A 20021127 - YAMAHA MOTOR CO LTD
- [A] WO 2010086951 A1 20100805 - DAIKI ALUMINIUM IND [JP], et al
- See references of WO 2016120905A1

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

DOCDB simple family (publication)

EP 3216884 A1 20170913; **EP 3216884 A4 20171213**; **EP 3216884 B1 20190911**; CN 107208196 A 20170926; JP 5797360 B1 20151021; JP WO2016120905 A1 20170427; MX 2017007836 A 20180221; PL 3216884 T3 20200131; US 2018002787 A1 20180104; WO 2016120905 A1 20160804

DOCDB simple family (application)

EP 15879806 A 20150129; CN 201580074095 A 20150129; JP 2015000405 W 20150129; JP 2015526796 A 20150129; MX 2017007836 A 20150129; PL 15879806 T 20150129; US 201515543133 A 20150129