

Title (en)
SEMISOLID DIE-CASTING ALUMINUM ALLOY AND METHOD FOR PREPARING SEMISOLID DIE-CASTING ALUMINUM ALLOY CASTINGS

Title (de)
HALBFESTE DRUCKGUSSALUMINIUMLEGIERUNG UND VERFAHREN ZUR HERSTELLUNG VON GUSSTEILEN AUS HALBFESTER DRUCKGUSSALUMINIUMLEGIERUNG

Title (fr)
ALLIAGE D'ALUMINIUM SEMI-SOLIDE DE COULÉE SOUS PRESSION ET PROCÉDÉ DE PRÉPARATION DE PIÈCES COULÉES EN ALLIAGE D'ALUMINIUM SEMI-SOLIDE DE COULÉE SOUS PRESSION

Publication
EP 3550046 A4 20200805 (EN)

Application
EP 17877267 A 20171116

Priority
• CN 201611096735 A 20161202
• CN 2017111382 W 20171116

Abstract (en)
[origin: EP3550046A1] The present disclosure provides a semi-solid die-casting aluminum alloy and a method for preparing a semi-solid die-casting aluminum alloy casting. The semi-solid die-casting aluminum alloy contains alloying elements, inevitable impurities and the balance of aluminum element. Based on the total weight of the semi-solid die-casting aluminum alloy, the alloying elements include: 7.5 to 9.5 wt% of Si, 3.5 to 4.8 wt% of Cu, 0.5 to 0.75 wt% of Mn, 0.01 to 0.5 wt% of Ti and 0.01 to 0.35 wt% of rare earth element.

IPC 8 full level
B22D 17/00 (2006.01); **B22D 21/00** (2006.01); **C22C 1/02** (2006.01); **C22C 1/03** (2006.01); **C22C 21/02** (2006.01)

CPC (source: CN EP US)
B22D 17/00 (2013.01 - EP); **B22D 17/007** (2013.01 - CN EP US); **B22D 21/007** (2013.01 - EP US); **C22C 1/026** (2013.01 - EP); **C22C 1/03** (2013.01 - EP); **C22C 21/02** (2013.01 - CN EP US)

Citation (search report)
• [XAI] CN 106086545 A 20161109 - LIN YADONG
• [A] WO 2016161908 A1 20161013 - UNIV SHANGHAI JIAOTONG [CN], et al
• [A] WO 2009132388 A1 20091105 - COMMW SCIENT IND RES ORG [AU], et al
• See references of WO 2018099272A1

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 3550046 A1 20191009; **EP 3550046 A4 20200805**; CN 108149083 A 20180612; CN 108149083 B 20191105; US 2019390305 A1 20191226; WO 2018099272 A1 20180607

DOCDB simple family (application)
EP 17877267 A 20171116; CN 201611096735 A 20161202; CN 2017111382 W 20171116; US 201716465321 A 20171116