

Title (en)
ALUMINUM DIE CAST PRODUCT AND PROCESS FOR MANUFACTURING THE SAME

Title (de)
ALUMINIUMDRUCKGUSSPRODUKT UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
PRODUIT EN ALUMINIUM COULÉ SOUS PRESSION ET PROCÉDÉ DE FABRICATION DE CELUI-CI

Publication
EP 2095895 A4 20111228 (EN)

Application
EP 07828677 A 20070928

Priority
• JP 2007068935 W 20070928
• JP 2006342909 A 20061220

Abstract (en)
[origin: US2009120538A1] An object is to provide an aluminum die cast product, e.g., a pressure vessel that requires high airtightness, in which pressure leak or gas leak ratio can be reduced and the product yield can be increased and also to provide a method for manufacturing the product. An aluminum die cast product in which a cast hole is formed by a core pin in a thick portion that is made thicker than other portions, wherein a chill layer with a secondary dendrite arm spacing of at least 5.5 μm or less is provided at the surface of the cast hole.

IPC 8 full level
B22C 9/10 (2006.01); **B22D 17/00** (2006.01); **B22D 17/22** (2006.01); **B22D 17/32** (2006.01); **C22F 1/00** (2006.01); **C22F 1/04** (2006.01)

CPC (source: EP US)
B22D 17/00 (2013.01 - EP US); **C22F 1/002** (2013.01 - EP US); **C22F 1/04** (2013.01 - EP US)

Citation (search report)
• [I] EP 1557567 A2 20050727 - FURUKAWA SKY ALUMINUM CORP [JP]
• [I] JP 2004225134 A 20040812 - SHOWA KEIGOKIN KK, et al
• See references of WO 2008075491A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2009120538 A1 20090514; CA 2631229 A1 20080620; CN 101432087 A 20090513; CN 101432087 B 20101229; EP 2095895 A1 20090902; EP 2095895 A4 20111228; EP 2095895 B1 20130306; JP 2008149369 A 20080703; JP 4043502 B1 20080206; WO 2008075491 A1 20080626

DOCDB simple family (application)
US 15517008 A 20080530; CA 2631229 A 20070928; CN 200780001541 A 20070928; EP 07828677 A 20070928; JP 2006342909 A 20061220; JP 2007068935 W 20070928