

Title (en)
METHOD FOR MANUFACTURING CYLINDER BLOCK

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES ZYLINDERBLOCKS

Title (fr)
PROCÉDÉ DE FABRICATION D'UN BLOC DE CYLINDRE

Publication
EP 3015194 A1 20160504 (EN)

Application
EP 15191205 A 20151023

Priority
JP 2014219541 A 20141028

Abstract (en)
A method of manufacturing a cylinder block including a semicircular bearing section that rotatably supports a crankshaft is provided. The method of manufacturing a cylinder block includes pressure-injecting molten metal into a cavity formed inside a metal mold, and sliding a pressure pin disposed in the metal mold after the pressure-injecting of the molten metal and thereby applying a pressure to the molten metal injected in the cavity, in which in the applying of the pressure to the molten metal, the pressure pin is slid toward an area where the bearing section is formed, a tip of the pressure pin protruding in an arc shape so as to conform to a shape of the bearing section.

IPC 8 full level
B22D 17/00 (2006.01); **B22D 17/20** (2006.01)

CPC (source: BR CN EP US)
B22D 17/00 (2013.01 - BR); **B22D 17/20** (2013.01 - BR US); **B22D 17/2069** (2013.01 - BR EP US); **B22D 17/22** (2013.01 - CN); **B22D 25/02** (2013.01 - BR); **F02F 7/0053** (2013.01 - BR EP US)

Citation (applicant)
JP 2012179629 A 20120920 - RYOBI LTD

Citation (search report)

- [X] JP S5568164 A 19800522 - TOYOTA MOTOR CO LTD
- [AD] JP 2012179629 A 20120920 - RYOBI LTD
- [A] EP 0465947 A1 19920115 - UBE INDUSTRIES [JP]
- [A] JP S6316848 A 19880123 - HONDA MOTOR CO LTD

Cited by
EP3789134A1; WO2021044331A1

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 3015194 A1 20160504; BR 102015026804 A2 20160809; CN 105537557 A 20160504; JP 2016083689 A 20160519; US 2016114386 A1 20160428

DOCDB simple family (application)
EP 15191205 A 20151023; BR 102015026804 A 20151022; CN 201510649789 A 20151009; JP 2014219541 A 20141028; US 201514879681 A 20151009