Title (en)

METHOD FOR ASSEMBLING A MOULD FOR CASTING A PART FROM MOLTEN METAL

Title (de)

VERFAHREN ZUM MONTIEREN EINER GIEßFORM ZUM GIEßEN EINES GUSSTEILS AUS EINER METALLSCHMELZE

Title (fr)

PROCÉDÉ DE MONTAGE D'UN MOULE POUR COULER UNE PIÈCE EN MÉTAL FONDU

Publication

EP 1981667 A1 20081022 (DE)

Application

EP 07704507 A 20070209

Priority

- EP 2007051294 W 20070209
- DE 102006006132 A 20060210

Abstract (en)

[origin: WO2007090895A1] The invention relates to a method for assembling a mould that is composed of mould sections and is used to cast a cylinder block of an internal combustion engine from molten metal. According to said method, at least one chill (14 - 17), which forms at least one sub-section of the inner surfaces of a cylinder chamber, is positioned and held against a wall (11) of one of the mould sections (1). The method according to the invention permits moulds comprising chills in the mould cavity to be assembled simply and reliably. To achieve this, the chill (14 - 17) is held in position for a specific holding period by means of magnetic forces that are exerted by a magnet (12), which is positioned on the opposite side of the wall (11) of the mould (1) from the chill (14 - 17).

IPC 8 full level

B22D 15/02 (2006.01); **B22C 9/02** (2006.01)

CPC (source: EP US)

B22C 9/02 (2013.01 - EP US); **B22C 21/14** (2013.01 - EP US); **B22D 15/02** (2013.01 - EP US)

Citation (search report)

See references of WO 2007090895A1

Cited by

DE102019110580A1

Designated contracting state (EPC)

CZ DE FR PL RO TR

DOCDB simple family (publication)

DE 102006006132 A1 20070816; BR PI0707647 A2 20110510; CA 2640308 A1 20070816; DE 502007002040 D1 20091231; EP 1981667 A1 20081022; EP 1981667 B1 20091118; JP 2009525875 A 20090716; PL 1981667 T3 20100430; US 2009165983 A1 20090702; WO 2007090895 A1 20070816

DOCDB simple family (application)

DE 102006006132 A 20060210; BR PI0707647 A 20070209; CA 2640308 A 20070209; DE 502007002040 T 20070209; EP 07704507 A 20070209; EP 2007051294 W 20070209; JP 2008553780 A 20070209; PL 07704507 T 20070209; US 27885607 A 20070209