

Title (en)

METHOD FOR PRODUCING LOST CORES OR MOLDED PARTS FOR THE PRODUCTION OF CAST PARTS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON VERLORENEN KERNEN ODER FORMTEILEN ZUR GUSSTEILPRODUKTION

Title (fr)

PROCÉDÉ PERMETTANT DE PRODUIRE DES NOYAUX PERDUS OU DES PARTIES DE MOULE POUR LA PRODUCTION DE PIÈCES MOULÉES

Publication

EP 2916976 A1 20150916 (DE)

Application

EP 14786500 A 20141017

Priority

- DE 102013017390 A 20131019
- EP 2014072361 W 20141017

Abstract (en)

[origin: WO2015055838A1] The invention relates to a method for producing lost cores or molded parts for the production of cast parts, in which a basic molding material is mixed with an alkali silicate or water glass binder and a lost core or a molded part for the production of cast parts is formed using a core shooter in a core box, wherein the alkali silicate or water glass binder contains an alkali silicate or water glass solution having a modulus of 1.5 to 3.5 and natural and/or synthetic additives in a proportion of 0.1 to 25% by weight measured with respect to the total amount of binder, with a particle size of less than 5 µm and the natural and/or synthetic additives are at least aluminum silicate, magnesium silicate and sodium aluminum silicate, each having a proportion of 1 to 5% by weight measured with respect to the total amount of binder. The lost core or the other molded part is formed in an unheated core box, and the lost core thus formed or the molded part is cured using hot air.

IPC 8 full level

B22C 1/18 (2006.01); **B22C 15/24** (2006.01)

CPC (source: EP US)

B22C 1/162 (2013.01 - EP US); **B22C 1/181** (2013.01 - EP US); **B22C 1/183** (2013.01 - EP US); **B22C 1/188** (2013.01 - EP US); **B22C 9/02** (2013.01 - EP US); **B22C 9/10** (2013.01 - EP US); **B22C 15/24** (2013.01 - EP US)

Citation (search report)

See references of WO 2015055838A1

Cited by

DE102018132235A1; FR3135908A1; DE102018132235B4

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)

WO 2015055838 A1 20150423; CN 105658352 A 20160608; CN 105658352 B 20180420; DE 102014221237 A1 20150423; EP 2916976 A1 20150916; EP 2916976 B1 20170308; ES 2628255 T3 20170802; JP 2016533275 A 20161027; JP 6141539 B2 20170607; PL 2916976 T3 20170831; US 10092947 B2 20181009; US 2016250680 A1 20160901

DOCDB simple family (application)

EP 2014072361 W 20141017; CN 201480057450 A 20141017; DE 102014221237 A 20141020; EP 14786500 A 20141017; ES 14786500 T 20141017; JP 2016548428 A 20141017; PL 14786500 T 20141017; US 201415030052 A 20141017