

Title (en)

METHOD FOR THE PRODUCTION OF A CAST PART FROM A MOLTEN METAL

Title (de)

VERFAHREN ZUM HERSTELLEN EINES GUSSTEILS AUS EINER METALLSCHMELZE

Title (fr)

PROCEDE POUR PRODUIRE UNE PIECE MOULEE A PARTIR DE METAL EN FUSION

Publication

**EP 1691944 B1 20130123 (DE)**

Application

**EP 04802904 A 20041209**

Priority

- DE 2004002698 W 20041209
- DE 10357618 A 20031210

Abstract (en)

[origin: WO2005056218A2] Disclosed is a method for producing a cast part from a molten metal, according to which the molten metal is cast into a porous mold (1), and the porous mold (1) that is filled with the molten metal is cooled with the aid of a cooling liquid. In order to achieve specifically controllable quenching of a cast part located in a mold while ensuring great flexibility, the mold (1) is sprinkled with a cooling liquid in the area of at least one section of the exterior surfaces thereof following casting of the molten metal while at least the area of the porous mold (1), which is sprinkled with the cooling liquid, is made of a material whose capillarity is adjusted to the cooling liquid in such a way that the mold (1) automatically picks up at least a partial volume of the cooling liquid that moistens the mold in the area made of said material, the material of the mold (1) absorbing the cooling liquid that moistens the mold.

IPC 8 full level

**B22C 9/06** (2006.01); **B22D 27/04** (2006.01)

CPC (source: EP)

**B22C 9/068** (2013.01); **B22D 27/045** (2013.01)

Cited by

US10612114B2; US11001917B2

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005056218 A2 20050623**; **WO 2005056218 A3 20060202**; DE 10357618 A1 20050714; DE 10357618 B4 20080124; EP 1691944 A2 20060823; EP 1691944 B1 20130123

DOCDB simple family (application)

**DE 2004002698 W 20041209**; DE 10357618 A 20031210; EP 04802904 A 20041209