

Title (en)

METHOD FOR DETERMINING AMOUNTS OF INOCULANT TO BE ADDED TO A CAST-IRON MELT

Title (de)

VERFAHREN ZUR BESTIMMUNG DER MENGE DER ZU EINER GUSSEISENSCHMELZUNG HINZUZUFÜGENDEN IMPFSTOFFE

Title (fr)

PROCÉDÉ DE DÉTERMINATION DE QUANTITÉS D'INOCULANT DEVANT ÊTRE AJOUTÉES À UN BAIN DE FONTE

Publication

EP 2583089 A1 20130424 (EN)

Application

EP 11796052 A 20110614

Priority

- SE 1050616 A 20100616
- SE 2011050732 W 20110614

Abstract (en)

[origin: WO2011159234A1] Method for determining amounts of inoculant to be added to a cast-iron melt in a specific casting process, comprising the steps of: -providing a first sample holder(1) and a second sample holder(2) each having a thermocouple(3, 4) which is connected to analysis equipment (5); -filling each sample holder(1, 2) with an amount of molten iron; recording a first cooling curve during solidification of the iron in the first sample holder(1) and a second cooling curve during solidification of the iron in the second sample holder(2); characterised in that one of the sample holders, before being filled with molten iron, has a predetermined amount of inoculant placed in it which represents the inoculant saturation level in the specific casting process, the amount of inoculant to be added to the melt in the specific casting process being determined on the basis of the difference between the lowest eutectic temperature(TElow) on the first cooling curve and the lowest eutectic temperature(TElow) on the second cooling curve.

IPC 8 full level

G01N 25/02 (2006.01); **B22D 1/00** (2006.01); **B22D 2/00** (2006.01); **C22C 33/08** (2006.01); **G01N 25/04** (2006.01); **G01N 33/20** (2006.01)

CPC (source: EP KR SE)

B22D 1/00 (2013.01 - EP); **B22D 2/00** (2013.01 - KR SE); **C22C 33/08** (2013.01 - EP KR SE); **G01N 25/02** (2013.01 - KR SE); **G01N 25/04** (2013.01 - EP); **G01N 33/205** (2019.01 - EP)

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

DOCDB simple family (publication)

WO 2011159234 A1 20111222; BR 112012030956 A2 20161101; CN 102985811 A 20130320; CN 102985811 B 20141001; EP 2583089 A1 20130424; EP 2583089 A4 20161123; KR 101412165 B1 20140625; KR 20130043160 A 20130429; RU 2013101763 A 20140727; RU 2528569 C2 20140920; SE 1050616 A1 20111217; SE 534912 C2 20120214

DOCDB simple family (application)

SE 2011050732 W 20110614; BR 112012030956 A 20110614; CN 201180029640 A 20110614; EP 11796052 A 20110614; KR 20137001223 A 20110614; RU 2013101763 A 20110614; SE 1050616 A 20100616