

Title (en)

METHOD AND DEVICE FOR MEASURING THE LAYER THICKNESS OF PARTIALLY SOLIDIFIED MELTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR MESSUNG DER SCHICHTDICKE VON TEILERSTARRTEN SCHMELZEN

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LA MESURE DE L'ÉPAISSEUR DE COUCHE DE MASSES EN FUSION PARTIELLEMENT SOLIDIFIÉES

Publication

EP 2379980 A1 20111026 (DE)

Application

EP 09801666 A 20091218

Priority

- EP 2009009140 W 20091218
- DE 102008064304 A 20081220

Abstract (en)

[origin: WO2010069591A1] The present invention relates to a method and a device for measuring the layer thickness of partially solidified melts, particularly on a conveyor belt, during continuous casting. In order to determine the layer thickness, magnetic fields are used, which are created by means of electromagnetic stirring coils that are present on one side of the layer. The reduced magnetic field is then detected on the other side of the layer and is used for calculating the layer thickness.

IPC 8 full level

G01B 7/06 (2006.01); **B22D 11/16** (2006.01)

CPC (source: EP KR US)

B22D 11/16 (2013.01 - EP US); **G01B 7/06** (2013.01 - KR); **G01B 7/107** (2013.01 - EP US); **G01N 27/72** (2013.01 - KR); **G01B 2210/46** (2013.01 - EP US)

Citation (search report)

See references of WO 2010069591A1

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010069591 A1 20100624; CN 102257350 A 20111123; DE 102008064304 A1 20100701; EP 2379980 A1 20111026; KR 20110074787 A 20110701; RU 2011129989 A 20130210; RU 2480708 C2 20130427; UA 100198 C2 20121126; US 2011254544 A1 20111020

DOCDB simple family (application)

EP 2009009140 W 20091218; CN 200980152741 A 20091218; DE 102008064304 A 20081220; EP 09801666 A 20091218; KR 20117011765 A 20091218; RU 2011129989 A 20091218; UA A201109063 A 20091218; US 200913140897 A 20091218