

Title (en)

Method for determining the position of the liquidus tip of a continuous casting by applying an oscillation

Title (de)

Verfahren zur Ermittlung der Position der Sumpfspitze eines Stranggussproduktes durch Aufbringen einer Oszillation

Title (fr)

Procédé pour déterminer la position du point de solidification finale d'une coulée continue en appliquant une oscillation

Publication

**EP 1369192 B1 20050720 (DE)**

Application

**EP 03005763 A 20030314**

Priority

DE 10224533 A 20020531

Abstract (en)

[origin: EP1369192A1] To determine the peak of the bottoms in a continuous casting assembly, and register the friction forces between at least two of the elements in the mechanical system, the casting is subjected to an oscillation by one of the mechanical elements e.g. a roll stand. The mechanical rating is divided in a co-ordinate system to give apparent, actual and blind ratings, to give a phase angle (psi) to show the peak of the bottoms. Preferred Features: The oscillation is at a frequency of 0.5-10.0 Hz and preferably 1-4 Hz, and at an amplitude of 0.1-1.0 mm and preferably 0.2-0.4 mm.

IPC 1-7

**B22D 11/12**; **B22D 11/128**; **B22D 11/20**

IPC 8 full level

**B22D 11/12** (2006.01); **B22D 11/128** (2006.01); **B22D 11/20** (2006.01)

CPC (source: EP)

**B22D 11/128** (2013.01); **B22D 11/20** (2013.01)

Cited by

ITMI20121185A1; EP1525931A1; WO2008040519A1; WO2014006195A1; WO2007115744A1; US9399252B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1369192 A1 20031210**; **EP 1369192 B1 20050720**; AT E299764 T1 20050815; DE 10224533 A1 20031218; DE 50300792 D1 20050825

DOCDB simple family (application)

**EP 03005763 A 20030314**; AT 03005763 T 20030314; DE 10224533 A 20020531; DE 50300792 T 20030314