

Title (en)

Control instrument and method for monitoring a plate of an ingot mould in a continuous casting plant

Title (de)

Steuervorrichtung und Verfahren zur Überwachung einer Kokillenplatte in einer Stranggießanlage

Title (fr)

Instrument de commande et procédé de surveillance d'une plaque d'une lingotière dans une installation de coulée continue

Publication

EP 2529859 A1 20121205 (EN)

Application

EP 12169709 A 20120529

Priority

IT BO20110317 A 20110531

Abstract (en)

A control instrument (11) for monitoring a plate (10) of an ingot mould (4) in a continuous casting plant (1); the control instrument (11) is provided with: a rigid frame (13) provided with a plurality of feet (14) suited to be laid against a vertical wall (12) of the plate (10); a distance measuring device (20) suited to face the vertical wall (12) so as to measure a distance (D) existing with respect to the vertical wall (12) itself; a moving device (21), which moves the distance measuring device (20) along a vertical measuring path (P); a position sensor (22), which detects the position of the distance measuring device (20) along the vertical measuring path (P); and a processing unit (23), which correlates the distance (D) with respect to the vertical wall (12), which has been measured by the distance measuring device (20), with the position of the distance measuring device (20) along the vertical measuring path (P), so as to obtain a profile of the vertical wall (12) (Fig. 3).

IPC 8 full level

B22D 2/00 (2006.01); **B22D 11/041** (2006.01); **B22D 11/16** (2006.01)

CPC (source: EP)

B22D 2/00 (2013.01); **B22D 11/041** (2013.01); **B22D 11/168** (2013.01)

Citation (search report)

- [A] JP H02247055 A 19901002 - SUMITOMO METAL IND
- [A] JP S5433755 A 19790312 - NIPPON STEEL CORP
- [A] JP S4886853 U 19731020
- [A] JP S6046849 A 19850313 - MISHIMA KOSAN CO LTD, et al

Cited by

EP3623076A1

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)

EP 2529859 A1 20121205; **EP 2529859 B1 20150902**; CN 103561887 A 20140205; IT BO20110317 A1 20121201;
WO 2012164477 A1 20121206

DOCDB simple family (application)

EP 12169709 A 20120529; CN 201280025912 A 20120528; IB 2012052661 W 20120528; IT BO20110317 A 20110531