

Title (en)
METHOD AND DEVICE FOR CONTROLLING THE SOLIDIFICATION OF A CAST STRAND IN A CONTINUOUS CASTING PLANT AT STARTUP OF THE CASTING PROCESS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR STEUERUNG DER ERSTARRUNG EINES GIESSSTRANGES IN EINER STRANGGIESSANLAGE BEIM ANFAHREN DES GIESSPROZESSES

Title (fr)
PROCÉDÉ ET DISPOSITIF DE COMMANDE DE LA SOLIDIFICATION D'UNE BARRE DE COULÉE DANS UNE INSTALLATION DE COULÉE CONTINUE LORS DE LA MISE EN MARCHE DU PROCESSUS DE COULÉE

Publication
EP 2346631 A1 20110727 (DE)

Application
EP 09748050 A 20091104

Priority
• EP 2009007903 W 20091104
• DE 102008055783 A 20081104

Abstract (en)
[origin: WO2010051981A1] A method for casting a cast strand (4) in a continuous casting installation equipped with a process computer and having at least one casting machine, the process computer comprising a first software (2), which computes in real time and regulates the casting process, is characterized in that a second additional fast-computing software (1) in the process computer controls the casting process during the initial phase of a newly starting casting process or when there is a change in parameters of the cast strand to be cast during the ongoing process, in that the second software (1) processes currently gained data from the ongoing casting process and/or processes stored data from a database (8) and generates correction factors, with the help of which the second software (1) generates corrected target data for the casting process, until the time when the casting process is represented completely using the data calculated in real time, and the first software (2) regulates the casting process using only these data.

IPC 8 full level
B22D 11/16 (2006.01)

CPC (source: EP US)
B22D 11/16 (2013.01 - EP US)

Citation (search report)
See references of WO 2010051981A1

Cited by
EP3733323A1; DE102020209704A1; EP3944910A1; DE102021213885A1; WO2023104836A1

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

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102009051955 A1 20100506; CN 102216003 A 20111012; EP 2346631 A1 20110727; EP 2346631 B1 20150722; RU 2011122594 A 20121220; RU 2492023 C2 20130910; US 2011213486 A1 20110901; WO 2010051981 A1 20100514

DOCDB simple family (application)
DE 102009051955 A 20091104; CN 200980143962 A 20091104; EP 09748050 A 20091104; EP 2009007903 W 20091104; RU 2011122594 A 20091104; US 200913127573 A 20091104