

Title (en)

MOLTEN STEEL FLOW-STATE ESTIMATING METHOD AND FLOW-STATE ESTIMATING DEVICE

Title (de)

VERFAHREN ZUR SCHÄTZUNG EINES GESCHMOLZENEN STAHLFLUSSSTATUS UND VORRICHTUNG ZUR SCHÄTZUNG EINES FLUSSSTATUS

Title (fr)

PROCÉDÉ D'ESTIMATION DE L'ÉTAT DE FLUIDITÉ DE L'ACIER FONDU, ET DISPOSITIF D'ESTIMATION DE L'ÉTAT DE FLUIDITÉ

Publication

EP 3167976 B1 20181031 (EN)

Application

EP 15819360 A 20150703

Priority

- JP 2014139302 A 20140707
- JP 2015069338 W 20150703

Abstract (en)

[origin: EP3167976A1] A molten steel fluidity estimation method estimates fluidity of molten steel in a casting mold of a continuous casting machine in such a manner that a CPU 113 calculates, at positions where thermocouples 41 are arranged in the casting mold of the continuous casting machine, an error between temperature distribution of the molten steel that is measured by using the thermocouples 41 and temperature distribution of the molten steel that is calculated by using a physical model; applies an external force in the vicinity of a discharge opening of a nozzle that discharges the molten steel into the casting mold; and calculates the fluidity of the molten steel in a state in which the external force adjusted to compensate the error is applied.

IPC 8 full level

B22D 11/16 (2006.01); **B22D 11/15** (2006.01)

CPC (source: EP KR)

B22D 11/057 (2013.01 - EP); **B22D 11/115** (2013.01 - EP KR); **B22D 11/16** (2013.01 - EP KR); **B22D 11/202** (2013.01 - EP)

Cited by

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Designated contracting state (EPC)

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DOCDB simple family (publication)

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