

Title (en)

BREAKOUT PREVENTION METHOD IN CONTINUOUS CASTING

Title (de)

AUSBRUCHSVERHINDERUNGSVERFAHREN BEIM STRANGGIESSEN

Title (fr)

PROCÉDÉ DE PRÉVENTION D'ÉCLATEMENT DANS UNE COULÉE CONTINUE

Publication

EP 2868405 A4 20160224 (EN)

Application

EP 12879691 A 20121227

Priority

- KR 20120069876 A 20120628
- KR 2012011552 W 20121227

Abstract (en)

[origin: EP2868405A1] Disclosed is a method for preventing a breakout of molten steel in a solidifying shell in a mold in continuous casting. The method includes periodic collection of pressure data of a cylinder of a mold oscillator, division of the pressure data into first and second period data, conversion of respective period data to frequency-domain data, analysis of power spectra of the converted data, calculation of a time delay coefficient associated with a delay in signal via a cross correlation analysis between the first and second period data, and control of the casting speed according to results of power spectra analysis and cross correlation analysis.

IPC 8 full level

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CPC (source: EP KR)

B22D 11/148 (2013.01 - EP); **B22D 11/16** (2013.01 - EP KR); **B22D 11/20** (2013.01 - EP)

Citation (search report)

- [A] US 6487504 B1 20021126 - GIRGENSOHN ALBRECHT [DE]
- [A] JP S6152973 A 19860315 - NIPPON KOKAN KK
- [A] JP S6152974 A 19860315 - NIPPON KOKAN KK
- [A] JP S62286654 A 19871212 - NIPPON KOKAN KK
- See references of WO 2014003269A1

Cited by

CN110109974A; CN111644587A

Designated contracting state (EPC)

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