

Title (en)

Process and machine for continuous casting metals, especially steel

Title (de)

Verfahren und Vorrichtung zum Stranggießen von Metallen, insbesondere von Stahl

Title (fr)

Procédé et dispositif de coulée continue de métaux, en particulier d'acier

Publication

EP 1172161 A1 20020116 (DE)

Application

EP 01116079 A 20010703

Priority

DE 10033655 A 20000711

Abstract (en)

Process for continuously casting steel comprises carrying out frequency analysis of casting meniscus fluctuations whilst transforming the casting meniscus signal into a frequency level and adapting the casting and/or operating parameters. An Independent claim is also included for a device for continuously casting steel comprising a signal amplifier (10), an analysis device (13a) operating independently of the casting meniscus signal (11) and the frequency level, and a decision device (14) connected to via a control device (22) to actuators, a servo component or regulating element for treating the casting strand (4).

Abstract (de)

Bei einem Verfahren zum Stranggießen von Metallen, insbesondere von Stahl, in einer Stranggießkokille 1, unter Vermeidung von unzulässigen Gießspiegelschwankungen, können ausreichend genaue Werte für zulässige Gießspiegelschwankungen dahingehend ermittelt und verwertet werden, indem eine Frequenzanalyse der Gießspiegelschwankungen durchgeführt wird, wobei das Gießspiegelsignal 11 auf die Frequenzebene 12 transformiert wird und aufgrund der Analysen-Ergebnisse die Gieß- und / oder Betriebsparameter angepasst werden. <IMAGE>

IPC 1-7

B22D 11/22; **B22D 11/16**; **B22D 11/20**

IPC 8 full level

B22D 11/16 (2006.01); **B22D 11/20** (2006.01); **B22D 11/22** (2006.01)

CPC (source: EP)

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Citation (search report)

- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 05 30 April 1998 (1998-04-30)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 08 30 June 1999 (1999-06-30)
- [X] PATENT ABSTRACTS OF JAPAN vol. 014, no. 478 (M - 1036) 18 October 1990 (1990-10-18)
- [X] DATABASE WPI Section Ch Week 199832, Derwent World Patents Index; Class M22, AN 1998-370273, XP002181099

Cited by

EP2059357A4; US7650925B2; DE102009011849A1

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