Title (en)

METHOD FOR CONTINUOUSLY CASTING A METAL STRAND

Title (de

VERFAHREN ZUM STRANGGIESSEN EINES METALLSTRANGES

Title (fr)

PROCEDE POUR COULER DES BARRES DE METAL EN CONTINU

Publication

EP 1289691 B2 20120711 (DE)

Application

EP 01942855 A 20010601

Priority

- AT 0100183 W 20010601
- AT 9722000 A 20000602

Abstract (en)

[origin: WO0191943A1] The invention relates to a method for continuously casting a metal strand, especially a steel strand (1). According to the method, a strand (1) is drawn out of a cooled open-ended mold (3), is supported in a strand supporting device (7, 11) located downstream from the open-ended mold (3), is cooled by a coolant, and optionally undergoes a thickness reduction. The aim of the invention is to stipulate the formation of a desired structure of the metal. To this end, the continuous casting is carried out with online calculation while using, as a basis, an arithmetic model which describes the formation of the defined structure of the metal, whereby the variables of the continuous casting method which influence the structuring, e.g. the specific amount of coolant provided for cooling the strand, are set in an online dynamic manner, i.e. during continuous casting.

IPC 8 full level

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CPC (source: EP)

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Opponent :

- 12th IAS Steelmaking Seminar, 2. 5.11.1999, Buenos Aires, S. 488-497
- Automation & Process Control Session Paper No. 44, A. 1-6, Mai 1996

Cited by

EP3184202A1; DE102013212713A1; US9079243B2; DE102008055650A1; DE102009049897A1; DE102009049897B4; EP4235318A1; DE102022201922A1: EP2349612B2

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