

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 B1 20061129 (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
B22D 11/16 (2006.01); **B22D 11/22** (2006.01)

CPC (source: EP)
B22D 11/16 (2013.01); **B22D 11/225** (2013.01)

Cited by
EP3184202A1; DE102013212713A1; US9079243B2; DE102008055650A1; DE102009049897A1; DE102009049897B4; EP4235318A1; DE102022201922A1; EP2349612B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0191943 A1 20011206; AT 409352 B 20020725; AT A9722000 A 20011215; AT E346706 T1 20061215; DE 50111555 D1 20070111; EP 1289691 A1 20030312; EP 1289691 B1 20061129; EP 1289691 B2 20120711

DOCDB simple family (application)
AT 0100183 W 20010601; AT 01942855 T 20010601; AT 9722000 A 20000602; DE 50111555 T 20010601; EP 01942855 A 20010601