

Title (en)

METHOD AND DEVICE FOR THE CONTROLLED SECONDARY COOLING OF A CONTINUOUS CASTING INSTALLATION

Title (de)

VORRICHTUNG UND VERFAHREN ZUR GEREGLTEN SEKUNDÄRKÜHLUNG EINER STRANGGIEßANLAGE

Title (fr)

DISPOSITIF ET PROCÉDÉ PERMETTANT LE REFROIDISSEMENT SECONDAIRE RÉGULÉ D'UNE INSTALLATION DE COULÉE CONTINUE

Publication

EP 2643109 B1 20150304 (DE)

Application

EP 11760498 A 20110926

Priority

- DE 102010052247 A 20101123
- EP 2011066647 W 20110926

Abstract (en)

[origin: WO2012069234A1] A device for controlled secondary cooling, comprising a network of a continuous casting installation through which a cooling medium flows and which has segments (31) for guiding a strand of metal, in particular a strand of steel, can be adapted to the respective casting task, in particular with regard to the grade of steel and special tasks arising during the casting process, characterized in that the at least one pressure network comprises at least one self-regulating pressure control element.

IPC 8 full level

B22D 11/124 (2006.01); **B22D 11/22** (2006.01)

CPC (source: EP)

B22D 11/1246 (2013.01); **B22D 11/225** (2013.01)

Citation (opposition)

Opponent : Primetals Technologies Austria GmbH,

- DE 1961507 A1 19710616 - MAROTTA SCIENTIFIC CONTROLS
- JP S62224467 A 19871002 - NIPPON STEEL CORP
- JP H0740018 A 19950210 - KAWASAKI STEEL CO
- DE 2344438 A1 19740411 - CONCAST AG
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- W. BACKE ET AL., UMDRUCK ZUR VORLESUNG „GRUNDLAGEN DER ÖLHYDRAULIK, 1994, pages 251 - 266, 333-341, XP055262873
- F. GAUSCH ET AL., DIGITALE REGELKREISE - EIN EINFACHER EINSTIEG MIT DEM PROGRAMM MLINSY, 1991
- J. FRICK ET AL.: "New Secondary Cooling Systems and Practices", 6TH ECCO 2008, Riccione, Italy, XP055262880
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- SAMSON AG: DATA SHEET FOR PNEUMATIC CONTROL VALVES TYPE 241-1 AND TYPE 241-7, November 2002 (2002-11-01)
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Cited by

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Designated contracting state (EPC)

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DOCDB simple family (publication)

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