Title (en)

METHOD OF AND INSTALLATION FOR FILLING A CONTINUOUS CASTING MOLD WITH MOLTEN METAL

Publication

EP 0400302 A3 19920422 (DE)

Application

EP 90106625 A 19900406

Priority

DE 3917403 A 19890529

Abstract (en)

[origin: EP0400302A2] Method of and installation for filling a continuous casting mould (25) with molten metal (10), in which the molten metal (10) is poured in a controlled fashion into the continuous casting mould (25) through a bottom opening (12) of a metallurgical vessel (13), the said opening being closeable by means of a plug (11) which can be moved up and down. During the filling of the continuous casting mould, the plug (11) executes predetermined upward and downward movements, in particular movements dependent on the liquid metal level (14) in the continuous casting mould, and inert gas, especially argon, can furthermore be blown in (arrow 15) at that end of the plug (11) which faces the bottom opening (12) during the filling of the continuous casting mould. To control the liquid metal level (14) in the continuous casting mould (25), the inert gas is blown in as a function of the said liquid metal level (14), such that, if the liquid metal level rises in relation to a predetermined desired value, more argon is blown in than when the liquid metal level is falling, with the result that, for a predetermined degree of opening of the plug (11), the liquid metal level is held essentially constant. <IMAGE>

IPC 1-7

B22D 41/42

IPC 8 full level

B22D 41/18 (2006.01)

CPC (source: EP)

B22D 41/186 (2013.01)

Citation (search report)

- [Y] WO 8505056 A1 19851121 THOR CERAMICS LTD [GB]
- [AP] EP 0320481 A1 19890614 VESUVIUS INT CORP [BE]
- [AD] EP 0084416 A2 19830727 MILLS STEPHEN DAVID [GB], et al
- [APD] DE 3817580 A1 19891130 ZIMMERMANN & JANSEN GMBH [DE]
- [Y] PÁTENT ABSTRACTS OF JAPAN, Band 10, Nr. 273 (M-518)(2329); & ĴP-A-61 095 756 (NIPPON STEEL) 14.05.1986

Cited by

CN114540668A; CN116855920A; CN104001892A

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EP 0400302 A2 19901205; **EP 0400302 A3 19920422**; **EP 0400302 B1 19950802**; AT E125740 T1 19950815; DE 3917403 A1 19901206; DE 3917403 C2 19980205; DE 59009459 D1 19950907; ES 2077601 T3 19951201

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