

Title (en)

PROCESS ENGINEERING MEASURES IN A STRAND CASTING MACHINE AT THE BEGINNING OF CASTING, AT THE END OF CASTING, AND DURING THE MANUFACTURING OF A TRANSITION PIECE

Title (de)

PROZESSTECHNISCHE MASSNAHMEN IN EINER STRANGGIESSMASCHINE BEI GIESSSTART, BEI GIESENDE UND BEI DER HERSTELLUNG EINES ÜBERGANGSSTÜCKS

Title (fr)

MESURES D'AMÉLIORATION DU PROCESSUS DANS UNE MACHINE DE COULÉE CONTINUE AU DÉMARRAGE DE LA COULÉE, À LA FIN DE LA COULÉE ET LORS DE LA PRODUCTION D'UN ÉLÉMENT DE JONCTION

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Application

EP 12798200 A 20121119

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Abstract (en)

[origin: WO2013083391A1] The present invention relates to in each case one method for the operation of a strand casting machine (1) at the beginning of casting, at the end of casting, and during the manufacturing of a transition piece (21). The problem addressed by the invention is that of - improving the quality of the strand ends (16, 18) and - preventatively protecting the strand casting machine (1) against damage during the implementation of the method. Said problem is solved by means of a method for the operation of a strand casting machine (1) at the beginning of casting by means of the following additional method steps: - detecting a position of the beginning of the strand (16) in the strand guide (4); - after the beginning of the strand (16), preferably an upper end (17a) of the beginning region of the strand (17) has passed the pair of adjustable strand-guiding rollers (5): adjusting the pair against the strand (2) such that the pair makes contact with the strand (2); - cooling the beginning region of the strand (17) with $Q < Q_{Nenn}$, wherein the cooling nozzle (10) discharges a coolant flow rate Q lower than a nominal coolant flow rate Q_{Nenn} onto the beginning region of the strand (17); and - cooling the main part of the strand (20) with $Q \approx Q_{Nenn}$, wherein the cooling nozzle (10) discharges a coolant flow rate Q substantially equal to Q_{Nenn} onto the main part of the strand (20).

IPC 8 full level

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Citation (opposition)

Opponent : SMS group GmbH

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