

Title (en)  
METHOD AND DEVICE FOR CONTROLLING AND/OR MAINTAINING THE TEMPERATURE OF A MELT, PREFERABLY OF A STEEL MELT DURING CONTINUOUS CASTING

Title (de)  
VERFAHREN UND VORRICHTUNG ZUM EINSTELLEN UND/ODER HALTEN DER TEMPERATUR EINER SCHMELZE, BEVORZUGT EINER STAHLSCHEMELZE BEIM STRANGGIESSEN

Title (fr)  
PROCEDE ET DISPOSITIF POUR REGLER ET/OU MAINTENIR LA TEMPERATURE D'UNE MASSE EN FUSION, EN PARTICULIER D'ACIER EN FUSION LORS DE LA COULEE EN CONTINU

Publication  
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Application  
**EP 00901067 A 20000107**

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Abstract (en)  
[origin: US6474404B1] The invention relates to a method for controlling the temperature of a melt (10), preferably of a steel melt, in a distributing vessel (11), whereby the temperature of the melt is measured, the measured result is compared with a predetermined temperature range in the form of specified values, and as much heat is supplied or withdrawn from the melt such that the temperature remains inside said range. In order to control the melt temperature, a fireproof shaped part (20) which is closed on both sides and which is provided for accommodating a liquid cooled induction coil (1) is immersed in the melt (10). The transmission of heat is carried out by means of thermal conduction out of the wall of the shaped part (20) which is coupled to the induced electromagnetic field and/or by means of a direct coupling to the liquid melt (10). The shaped part (20) accommodates the induction coil (1) in an interchangeable manner while leaving cooling channels (9) open and is positioned from the outside by a manipulator (16) which can be lifted, lowered and tuned.

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