

Title (en)
MOLD FOR CONTINUOUS STEEL CASTING AND CONTINUOUS STEEL CASTING METHOD

Title (de)
FORM ZUM STRAHLSTRANGGIESSEN UND STRAHLSTRANGGIESSVERFAHREN

Title (fr)
MOULE DE COULÉE D'ACIER CONTINUE ET PROCÉDÉ DE COULÉE D'ACIER CONTINUE

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Application
EP 19882667 A 20191106

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Abstract (en)
[origin: EP3878572A1] To increase the number of times a mold for continuous steel casting having dissimilar material-filled portions formed therein can be used significantly as compared with that in conventional molds. The mold 1 for continuous steel casting according to the present invention includes: a mold plate 21 made of a copper alloy and having a front surface forming an inner wall surface of the mold and a back surface on which a cooling water channel 31 is formed; and a backup plate 23 attached to the mold plate so as to cover the cooling water channel. A dissimilar material-filled portion 22 filled with a dissimilar material having a thermal conductivity different from the thermal conductivity of the mold plate is formed in a recessed portion that is formed on the front surface of the mold plate and located in a region including at least a meniscus. A water stream disturbing portion 32 is formed in the cooling water channel on the back surface of the mold plate. The water stream disturbing portion disturbs a water stream, increases the surface area of the cooling water channel, and is formed in a region corresponding to the region in which the dissimilar material-filled portion is formed.

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Citation (search report)
• [X1] EP 3213838 A1 20170906 - JFE STEEL CORP [JP]
• [X1] EP 2839901 A1 20150225 - JFE STEEL CORP [JP]
• [X1] JP 2015051443 A 20150319 - JFE STEEL CORP
• [X1] JP 2018149602 A 20180927 - JFE STEEL CORP
• See references of WO 2020095932A1

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