Title (en)

METHOD AND DEVICE FOR CONTINUOUS THIN SLAB STEEL CASTING

Title (de)

VERFAHREN UND ANLAGE ZUM STRANGGIESSEN VON DÜNNBRAMMEN

Title (fr)

PROCEDE ET INSTALLATION DE COULEE CONTINUE DE BRAMES FINES

Publication

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Application

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Abstract (en)

[origin: WO9820998A1] The present invention pertains to a method for continuous thin slab steel casting at speeds over 3m/min. in a facility where, above an immersion spout (42) which can be closed by means of a stop element (44), the cast is fed into an ingot mould located downstream from the guide rollers of the strand. Said method comprises the following steps: a) when the slab goes out of the ingot mould, the frozen layer on each of its large sides takes a steady waved form during the plastic adaptation phase, depending on the spacing between the guide rollers on which it takes its bearing; b) thereafter, on the large sides of the slab, the shell featured by the frozen layer takes on its surface a non steady waved form during the plastic adaptation phase, depending on the arrangement of the guide rollers located opposite it; c) when the strand is removed, the transition from plastic to elastic adaptation of the frozen layer is metrologically determined and, with regard to the plastic adaptation of the shell featured by said frozen layer, the slab takes its bearing in such a way that, for a minimum force exerted upon the frozen layer, said slab is routed by the strand guiding part.

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