

Title (en)

METHOD AND DEVICE FOR COOLING AND GUIDING A BEAM BLANK IN A CURVED SECONDARY COOLING ZONE OF A BEAM BLANK CASTER

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KÜHLEN UND FÜHREN EINES VORBLOCKES IN DER GEBOGENEN SEKUNDÄRKÜHLZONE EINER VORBLOCKGIESSMASCHINE

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT DE REFROIDIR ET DE GUIDER UNE EBAUCHE DE PROFILE DANS UNE ZONE DE REFROIDISSEMENT SECONDAIRE INCURVEE D'UNE COULEUSE D'EBAUCHES PROFILES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO02081124A1] A device for cooling and guiding a beam blank (12) in a curved secondary cooling zone (24) of a beam blank caster (10) comprises an intrados web support roller (46) with a cylindrical bearing surface (64) that is interrupted by groove means, comprising for example a plurality of axially spaced ring-shaped grooves (66). This groove means is designed so as to avoid an over-flow generating cooling water dam up behind the intrados web support roller (46) by channelling sufficient cooling water underneath the intrados web support roller (46) axially through the intrados channel (42) of the beam blank (12). It has indeed been discovered that such a cooling water overflow can produce a quench of the intrados tips (52', 52'') of the flanges (16', 16''), which results in transverse cracks of these tips during straightening of the beam blank (12).

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CPC (source: EP KR US)

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