

Title (en)
METHOD FOR THE CONTINUOUS CASTING AND DIRECT SHAPING OF A METAL STRAND, IN PARTICULAR A STEEL CAST STRAND

Title (de)
VERFAHREN ZUM STRANGGIESSEN UND UNMITTELBAREN VERFORMEN EINES METALL-, INSBESONDERE EINES GIESSSTRANGS AUS STAHLWERKSTOFFEN

Title (fr)
PROCEDE DE COULEE CONTINUE ET DE FACONNAGE DIRECT D'UN METAL, NOTAMMENT D'UNE BARRE DE COULEE EN MATERIAUX A BASE D'ACIER

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Abstract (en)
[origin: WO03070399A1] The invention relates to a method and a continuous casting device for the direct shaping of a metal strand, in particular a steel cast strand (1) of any format (1d). According to said method, the cast strand (1) is only cooled by a liquid coolant (4) in longitudinal sections (6), where the interior of the cast strand (1) remains liquefied and the temperature of the cast strand (1) in a transition zone (7) upstream of, in and/or downstream of a bending and straightening unit (8) is evened out by an insulation of the exterior surface (1 b), essentially without the use of a liquid coolant (4), and by progressive thermal radiation. The cast strand (1) is shaped in a dynamically variable reduction section (9) as a result of the compressive strength that is measured on individual shaping rolls (10) or roll segments (11), depending on the compressive force that can be locally applied.

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