

Title (en)

STRAND GUIDING ROLLER FOR GUIDING A METAL STRAND IN A CONTINUOUS CASTING FACILITY

Title (de)

STRANGFÜHRUNGSROLLE ZUM FÜHREN EINES METALLISCHEN STRANGS IN EINER STRANGGIESSANLAGE

Title (fr)

ROULEAU DE GUIDAGE DE PRODUIT FILÉ POUR LE GUIDAGE D'UN PRODUIT FILÉ MÉTALLIQUE DANS UNE INSTALLATION DE COULÉE CONTINUE

Publication

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Application

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Abstract (en)

[origin: WO2017125529A1] The invention relates to a strand guiding roller (1) comprising a stationary shaft (3), at least one roller sleeve (5) coaxially surrounding a shaft section of the shaft (3), and for each roller sleeve (5), at least one cooling channel (40) for receiving a cooling fluid, extending along the inner surface of the roller sleeve (5), and at least one rolling bearing (7) for rotatably mounting the roller sleeve (5) around the shaft (3). The rolling bearing (7) is adjacent to the cooling channel (40) and comprises a bearing inner space (9) which is permeable to the cooling fluid and open to the cooling channel (40), such that cooling fluid can flow through the rolling bearing (7) during operation. In addition, the rolling bearing (7) is made from a corrosion-resistant steel for a lubricant-free operation. Furthermore, the rolling bearing (7) is elastically deformable in at least one direction orthogonal to a longitudinal axis of the shaft (3).

IPC 8 full level

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