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
EP 3405302 A1 20181128 (DE)

Application
EP 17700969 A 20170120

Priority
- AT 500272016 A 20160121
- EP 2017051146 W 20170120

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 mouting 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
B22D 11/128 (2006.01); **F16C 13/00** (2006.01)

CPC (source: EP)
B22D 11/1287 (2013.01)

Citation (search report)
See references of WO 2017125529A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2017125529 A1 20170727; EP 3405302 A1 20181128; EP 3405302 B1 20230830; EP 3405302 C0 20230830

DOCDB simple family (application)
EP 2017051146 W 20170120; EP 17700969 A 20170120