

Title (en)

Method and apparatus for guiding and straightening a strand in a continuous casting machine for round billets of large cross-section

Title (de)

Verfahren und Einrichtung zum Führen und Richten des Strangs in einer Stranggiessanlage für grossformatige Rundprofile

Title (fr)

Procédé et système pour guider et redresser une brame dans une machine à coulée continue pour des produits ronds de forte section

Publication

EP 2263816 A1 20101222 (DE)

Application

EP 09405092 A 20090603

Priority

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Abstract (en)

The method for guiding and orienting a strand (5) in a continuous casting facility for large-sized round sections made of steel or a similar material, comprises completely heating strand cover within an orienting track. The heating power of the extensions locally appearing in the strand cover along the orienting track is adjusted. The strand cover is heated in uniformly arranged part zones of the orienting track through burning of air-/gas-mixture in a porous structure and bubbles of the hot exhaust gas on the strand cover. An independent claim is included for an arrangement for guiding and orienting a strand in a continuous casting facility.

Abstract (de)

Die Erfindung betrifft ein Verfahren und eine Einrichtung zum Führen und Richten des Strangs (5) in einer Stranggiessanlage für grossformatige Rundprofile aus Stahl oder einem ähnlichen Werkstoff. Um Rissbildungen beim Richten des Stranges zu vermeiden, wird der Strangmantel (15) innerhalb der Richtstrecke ober- und unterseitig aufgeheizt. Zu diesem Zweck sind im auslaufseitigen Abschnitt der Richtstrecke Porenbrenner (10, 17) angeordnet, deren heissen Abgase den Strangmantel (15) vollumfänglich umströmen.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (applicant)

- FR 2513552 A1 19830401 - USINOR [FR]
- WO 2007131584 A1 20071122 - SMS DEMAG AG [DE], et al

Citation (search report)

- [I] FR 2513552 A1 19830401 - USINOR [FR]
- [I] CH 604975 A5 19780915 - CONCAST AG
- [AD] WO 2007131584 A1 20071122 - SMS DEMAG AG [DE], et al
- [A] EP 0229341 A2 19870722 - CONTINUA INT [IT]
- [A] AT 272551 B 19690710 - CONCAST AG [CH]
- [A] DE 10236368 A1 20030904 - SMS DEMAG AG [DE]
- [A] JP H08206804 A 19960813 - SUMITOMO HEAVY INDUSTRIES
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- [A] KELLNER C; FELDE J V: "Markteinführung des Porenbrenners - Prozesswärme in neuer Dimension", INTERNET CITATION, August 2005 (2005-08-01), XP002440186, Retrieved from the Internet <URL:www.promeos.com/cms/upload/download/promeos_gaswaerme_industrieanwendungen.pdf> [retrieved on 20070702]

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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 SE SI SK TR

Designated extension state (EPC)

AL BA RS AL BA RS

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