

Title (en)
ROLLING MILL

Title (de)
WALZANLAGE

Title (fr)
INSTALLATION DE LAMINAGE

Publication
EP 3025799 B1 20170524 (DE)

Application
EP 14195442 A 20141128

Priority
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Abstract (en)
[origin: WO2016083439A1] The invention relates to a rolling plant, to a casting and rolling plant and to a method for producing a metal strip. In order to make it possible to heat and roll in particular metal strips having thicknesses of > 6 mm in a particularly effective manner, i.e. using as little electrical energy as possible, it is proposed according to the invention that a longitudinal field inductor 170 is arranged between at least one roughing stand 420 and a first rolling stand F1 of a finishing rolling mill train and that an upper longitudinal field inductor movement device 140 is provided for moving the upper induction coil 110 of the longitudinal field inductor perpendicularly in relation to the top side of the metal strip 200 and/or a lower longitudinal field inductor movement device is provided for moving the lower induction coil 120 of the longitudinal field inductor perpendicularly in relation to the bottom side of the metal strip. With the aid of the movement devices, the distance d of the upper induction coil 110 from the top side of the metal strip and/or the distance d of the lower induction coil 120 from the bottom side of the metal strip is set to $d < 60$ mm in an operating position.

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B21B 45/004 (2013.01); **B21B 1/26** (2013.01)

Citation (opposition)
Opponent : ABP Induction System GmbH

- EP 2340897 A1 20110706 - VOESTALPINE GROBBLECH GMBH [AT]
- JP S61195708 A 19860830 - NIPPON KOKAN KK
- WO 2014135710 A1 20140912 - SMS SIEMAG AG [DE]
- DE 10323796 B3 20050210 - THYSSENKRUPP NIROSTA GMBH [DE], et al
- WO 9312628 A1 19930624 - ARVEDI GIOVANNI [IT]
- WO 9014742 A1 19901129 - ARVEDI GIOVANNI [IT]
- WO 2010115698 A1 20101014 - SIEMENS VAI METALS TECH GMBH [AT], et al
- JP H06122928 A 19940506 - SUMITOMO METAL IND
- EP 0721813 A1 19960717 - MANNESMANN AG [DE]
- JP 3988978 B2 20071010
- JP 4548997 B2 20100922
- US 5495094 A 19960227 - ROWAN HENRY M [US], et al
- ANIS ABDURAHMAN ET AL.: "Einsatz flexibler Induktionseinheiten zur Produktions- und Qualitätserhöhung in Warmwalzwerken", ELEKTROWÄRME INTERNATIONAL, February 2012 (2012-02-01), XP055475086
- GERNOT WILFINGER: "Bestimmung des Prozessfensters bei der induktiven Erwärmung von Formplatinen für den Warmformprozess", DIPLOMARBEIT TU GRAZ, 2010, XP055467405
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EP3715001A1; AT522345A1; AT522345B1; DE102019008622A1; CN113613808A; WO2018138038A1; WO2024100690A1; WO2020200612A1

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