Title (en)

PLANT AND PROCESS FOR MULTI-MODE MANUFACTURING OF METAL STRIPS AND PLATES

Title (de)

ANLAGE UND VERFAHREN ZUR MEHRMODENHERSTELLUNG VON METALLBÄNDERN UND -PLATTEN

Title (fr)

INSTALLATION ET PROCÉDÉ DE FABRICATION MULTIMODE DE PLAQUES ET DE BANDES MÉTALLIQUES

Publication

EP 3606681 A1 20200212 (EN)

Application

EP 18718524 A 20180409

Priority

- IT 201700039423 A 20170410
- IB 2018052459 W 20180409

Abstract (en)

[origin: WO2018189652A1] A plant for the endless or batch production of strips and plates of hot-rolled steel, with thickness from 0,6 mm to 50 mm, comprises a continuous caster (1) of thin slabs with liquid core reduction, followed by an induction heater (2), with a first shear (3) therebetween, and then a rolling mill (4) followed by a second shear (5) and a run out table with a cooling device (6) and a pusher/piler (7) for plates and then a third shear (8) and a plurality of coilers (9), and it further includes a minimum-reduction rolling stand (10) arranged between the continuous caster (1) and the first shear (3), said minimum- reduction rolling stand (10) being designed to perform a slab thickness reduction of only about 10% and in any case not more than 20%.

IPC 8 full level

B21B 1/46 (2006.01)

CPC (source: EP KR RU)

B21B 1/46 (2013.01 - EP RU); **B21B 1/463** (2013.01 - KR); **B21B 13/22** (2013.01 - RU); **B21B 45/0218** (2013.01 - KR); B21B 45/0203 (2013.01 - EP); B21B 45/0218 (2013.01 - EP); B21B 2265/14 (2013.01 - EP KR)

Citation (search report)

See references of WO 2018189652A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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WO 2018189652 A1 20181018; CN 110573269 A 20191213; CN 110573269 B 20220104; EP 3606681 A1 20200212; EP 3606681 B1 20210127; EP 3632582 A1 20200408; EP 3632582 B1 20210609; ES 2866154 T3 20211019; ES 2887184 T3 20211222; IT 201700039423 A1 20181010; JP 2020516466 A 20200611; JP 2022107666 A 20220722; JP 7095071 B2 20220704; KR 102435246 B1 20220822; KR 20190134776 A 20191204; MA 47042 A1 20201231; MA 47042 B1 20220131; MX 2019012216 A 20191121; PH 12019502312 A1 20201012; RU 2019135817 A 20210511; RU 2019135817 A3 20210604; RU 2752592 C2 20210729

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