

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)

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 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

DOCDB simple family (application)

**IB 2018052459 W 20180409**; CN 201880024408 A 20180409; EP 18718524 A 20180409; EP 19208335 A 20180409; ES 18718524 T 20180409; ES 19208335 T 20180409; IT 201700039423 A 20170410; JP 2020504467 A 20180409; JP 2022082806 A 20220520; KR 20197033306 A 20180409; MA 47042 A 20180409; MX 2019012216 A 20180409; PH 12019502312 A 20191009; RU 2019135817 A 20180409