

Title (en)

MULTI-ROLLER FLATTENER OF A METAL STRIP

Title (de)

MULTIWALZEN-RICHTMASCHINE FÜR METALLBAND

Title (fr)

PLANEUSE MULTI-ROULEAUX DE BANDE MÉTALLIQUE

Publication

EP 3661669 B1 20210901 (FR)

Application

EP 18738359 A 20180717

Priority

- EP 17290100 A 20170804
- EP 2018069394 W 20180717

Abstract (en)

[origin: WO2019025179A1] The present invention relates to a metal strip leveller (B), said strip having a thickness (e) subject to a stress distribution, said leveller comprising: - a row of upper rolls (1, 3, 5, 7, 9...) and a row of lower rolls (2, 4, 6, 8, 10...), - the upper and lower rolls have parallel axes, longitudinally offset in a direction of line of passage (lp) and offset in height, in such a way as to define, by vertical imbrication of the rolls, an undulating path of the strip between said rolls, characterised in that at least two upper rolls ([1, 3]; [5, 7]) and two lower rolls ([2, 4]; [6, 8]) are arranged respectively above and below the line of passage, such that they form three vertical imbrication gaps, said gaps having a profile of non-linear imbrication values (Imbr) that are either convex or concave with respect to a profile of linear imbrication values (Imbr_lin) in the direction of the line of passage.

IPC 8 full level

B21D 1/05 (2006.01); **B21D 1/02** (2006.01)

CPC (source: EP KR US)

B21D 1/02 (2013.01 - EP KR US); **B21D 1/05** (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

DOCDB simple family (publication)

EP 3437749 A1 20190206; BR 112020001276 A2 20200721; BR 112020001276 B1 20230207; CN 110914005 A 20200324; CN 110914005 B 20220311; EP 3661669 A1 20200610; EP 3661669 B1 20210901; EP 3661669 B8 20211006; ES 2899672 T3 20220314; JP 2020534157 A 20201126; JP 7071011 B2 20220518; KR 102606762 B1 20231124; KR 20200037223 A 20200408; MX 2020001331 A 20200320; PL 3661669 T3 20220117; RS 62458 B1 20211130; US 2020171559 A1 20200604; WO 2019025179 A1 20190207

DOCDB simple family (application)

EP 17290100 A 20170804; BR 112020001276 A 20180717; CN 201880050817 A 20180717; EP 18738359 A 20180717; EP 2018069394 W 20180717; ES 18738359 T 20180717; JP 2020505775 A 20180717; KR 20207002826 A 20180717; MX 2020001331 A 20180717; PL 18738359 T 20180717; RS P20211292 A 20180717; US 201816636455 A 20180717