

Title (en)

METHOD FOR PRODUCING STEEL H-BEAM, AND ROLLING MILL

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES H-TRÄGERS AUS STAHL UND WALZWERK

Title (fr)

PROCÉDÉ DE PRODUCTION DE POUTRE D'ACIER EN H, ET LAMINOIR

Publication

EP 3388160 A4 20191009 (EN)

Application

EP 16883696 A 20161117

Priority

- JP 2016002066 A 20160107
- JP 2016084141 W 20161117

Abstract (en)

[origin: EP3388160A1] To efficiently and stably produce an H-shaped steel product with a flange width larger than a conventional flange width, and separately shape by the same roll H-shaped steels different in flange width in the H-shaped steel product with a large flange width. A rolling mill that performs a rough rolling step is engraved with a plurality of calibers configured to shape a material to be rolled, the number of the plurality of calibers being seven or more; the plurality of calibers include a plurality of wedging calibers as calibers at a previous stage provided with projections configured to create splits vertically with respect to a width direction of the material to be rolled, and a plurality of bending calibers as calibers at a subsequent stage configured to bend flange corresponding portions of the material to be rolled formed by the wedging calibers; the wedging calibers include calibers configured to create two kinds of splits different in length; the bending calibers include calibers having dimensions according to two kinds of flange corresponding portions different in length formed in the material to be rolled in the wedging calibers; and in the bending calibers, reduction is performed in a state where end surfaces of the material to be rolled are in contact with peripheral surfaces of the calibers in shaping in at least one pass or more.

IPC 8 full level

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CPC (source: EP KR US)

B21B 1/088 (2013.01 - EP KR US); **B21B 27/02** (2013.01 - KR US); **B21B 27/02** (2013.01 - EP); **B21B 2203/18** (2013.01 - KR)

Citation (search report)

- [AD] JP S6021101 A 19850202 - SUMITOMO METAL IND
- [A] JP S58188501 A 19831104 - SUMITOMO METAL IND
- [A] JP H01186201 A 19890725 - SUMITOMO METAL IND
- [A] JP S57193201 A 19821127 - SUMITOMO METAL IND
- See references of WO 2017119196A1

Designated contracting state (EPC)

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EP 16883696 A 20161117; CN 201680076931 A 20161117; JP 2016084141 W 20161117; JP 2017560043 A 20161117; KR 20187020714 A 20161117; PH 12018501323 A 20180621; US 201616065985 A 20161117