

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 A1 20181017 (EN)**

Application

**EP 16883696 A 20161117**

Priority

- JP 2016002066 A 20160107
- JP 2016084141 W 20161117

Abstract (en)

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

**B21B 1/08** (2006.01); **B21B 1/088** (2006.01); **B21B 27/02** (2006.01)

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)

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)

**EP 3388160 A1 20181017**; **EP 3388160 A4 20191009**; CN 108430659 A 20180821; CN 108430659 B 20200110; JP 6593457 B2 20191023; JP WO2017119196 A1 20181018; KR 20180097665 A 20180831; PH 12018501323 A1 20190218; US 2019009315 A1 20190110; WO 2017119196 A1 20170713

DOCDB simple family (application)

**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