

Title (en)
H-SECTION STEEL MANUFACTURING METHOD

Title (de)
VERFAHREN ZUR HERSTELLUNG VON H-FÖRMIGEM STAHL

Title (fr)
PROCÉDÉ DE FABRICATION D'ACIER À SECTION EN FORME DE H

Publication
EP 3593915 A1 20200115 (EN)

Application
EP 18806758 A 20180523

Priority
• JP 2017102423 A 20170524
• JP 2018019883 W 20180523

Abstract (en)
There are provided: an edging rolling step of rolling and shaping a material to be rolled into a predetermined shape; a raised part generating step of performing rolling of a web part by making the material to be rolled to be rotated, and forming a raised part at a middle of the web part of the material to be rolled; a supplementary edging rolling step of performing light reduction rolling by making the material to be rolled after being rolled in one pass or more in the raised part generating step to be rotated again and returning the material to be rolled to a final caliber in the edging rolling step; and a raised part eliminating step of reducing and eliminating the raised part formed in the raised part generating step, in upper and lower caliber rolls which perform the raised part generating step, recessed parts configured to form the raised part at the middle of the web part of the material to be rolled are provided at roll barrel length middle parts of the upper and lower caliber rolls, a roll shape of the upper and lower caliber rolls is designed to make tips of flange parts of the material to be rolled to be out of contact with the upper and lower caliber rolls, two steps of the raised part generating step and the supplementary edging rolling step are continuously performed one time or plural times, and the raised part eliminating step is performed after the raised part generating step and the supplementary edging rolling step are performed.

IPC 8 full level
B21B 1/08 (2006.01); **B21B 1/088** (2006.01)

CPC (source: EP US)
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Citation (search report)
See references of WO 2018216742A1

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)
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DOCDB simple family (publication)
EP 3593915 A1 20200115; CN 110636908 A 20191231; JP 6458917 B1 20190130; JP WO2018216742 A1 20190627; PH 12019502500 A1 20200713; US 2020078842 A1 20200312; WO 2018216742 A1 20181129

DOCDB simple family (application)
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