

Title (en)

METHOD FOR MANUFACTURING HAT-SHAPED STEEL PILING

Title (de)

VERFAHREN ZUR HERSTELLUNG VON HUTFÖRMIGEN STAHLSPUNDWÄNDEN

Title (fr)

PROCÉDÉ DE FABRICATION D'UN PIEU EN ACIER EN FORME DE CHAPEAU

Publication

EP 3695913 A1 20200819 (EN)

Application

EP 19846187 A 20190808

Priority

- JP 2018149325 A 20180808
- JP 2019031445 W 20190808

Abstract (en)

To suppress a material amount deficiency in arm parts which occurs at a rough shaping stage to produce a hat-shaped steel sheet pile product in a good shape when a large-size hat-shaped steel sheet pile is produced using a raw material in a rectangular cross-sectional shape (slab). A production method for producing a hat-shaped steel sheet pile by reducing a rectangular cross-sectional raw material, includes: edging rolling of performing reduction in a width direction on the rectangular cross-sectional raw material; and a first forming rolling of performing reduction in which a cross section of a material to be rolled after the edging rolling is formed into a substantially hat-shaped cross-sectional shape, wherein in the edging rolling, reduction in which a thickness of end parts in the width direction of the material to be rolled is increased using an edging caliber being a restraining caliber having a caliber bottom width T3 larger than a thickness T1 of the rectangular cross-sectional raw material to form into a dog-bone shape is performed.

IPC 8 full level

B21B 1/08 (2006.01); **B21B 1/082** (2006.01)

CPC (source: EP US)

B21B 1/082 (2013.01 - EP US); **B21B 2205/00** (2013.01 - US); **B21B 2261/046** (2013.01 - US); **B21B 2265/14** (2013.01 - EP)

Citation (search report)

See references of WO 2020032188A1

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 3695913 A1 20200819; CN 111565860 A 20200821; US 2021370369 A1 20211202; WO 2020032188 A1 20200213

DOCDB simple family (application)

EP 19846187 A 20190808; CN 201980007778 A 20190808; JP 2019031445 W 20190808; US 201916755077 A 20190808