

Title (en)

METHOD AND EQUIPMENT FOR MANUFACTURING FLANGED STEEL SHEET PILING

Title (de)

VERFAHREN UND AUSRÜSTUNG ZUR HERSTELLUNG VON GEFLANSCHTER STAHLSPUNDWAND

Title (fr)

PROCÉDÉ ET ÉQUIPEMENT DE FABRICATION DE RIDEAU DE PALPLANCHE À BORD RABATTU

Publication

**EP 3603832 A1 20200205 (EN)**

Application

**EP 18781109 A 20180403**

Priority

- JP 2017073578 A 20170403
- JP 2018014214 W 20180403

Abstract (en)

To suppress the occurrence of a defective shape such as a flange wave or the like by reverse rolling so as to improve the product dimension accuracy and stability of rolling. A production method for forming a steel sheet pile with flanges from a material to be rolled by caliber roll rolling, includes a step of performing reverse rolling on the material to be rolled by a same caliber, wherein: the step of performing reverse rolling includes a step of forming first flange parts across a neutral line and second and third flange parts arranged on both sides of the first flange parts; the caliber includes first flange facing portions for forming the first flange parts, second flange facing portions for forming the second flange parts, and third flange facing portions for forming the third flange parts; and an inclination angle of the first flange facing portion with respect to a horizontal plane is larger than inclination angles of the second and third flange facing portions.

IPC 8 full level

**B21B 1/082** (2006.01)

CPC (source: EP US)

**B21B 1/082** (2013.01 - EP US); **B21B 1/095** (2013.01 - US); **B21B 1/14** (2013.01 - EP US); **B21B 2001/081** (2013.01 - US); **E02D 5/04** (2013.01 - US)

Citation (search report)

See references of WO 2018186379A1

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 3603832 A1 20200205**; CN 110475623 A 20191119; JP 6493636 B2 20190403; JP WO2018186379 A1 20190411; PH 12019502224 A1 20200629; US 2020269294 A1 20200827; WO 2018186379 A1 20181011

DOCDB simple family (application)

**EP 18781109 A 20180403**; CN 201880021446 A 20180403; JP 2018014214 W 20180403; JP 2018554413 A 20180403; PH 12019502224 A 20190926; US 201816495033 A 20180403