

Title (en)

COIL WINDING SYSTEM OF A HOT ROLLED PRODUCT AND METHOD OF COIL WINDING

Title (de)

SYSTEM ZUM LEGEN VON COILS EINES WARMGEWALZTEN PRODUKTS UND VERFAHREN ZUM LEGEN VON COILS

Title (fr)

SYSTÈME D'ENROULEMENT DE BOBINE D'UN PRODUIT LAMINÉ À CHAUD ET MÉTHODE D'ENROULEMENT DE BOBINE

Publication

EP 3774104 B1 20230726 (EN)

Application

EP 19721061 A 20190322

Priority

- IT 201800004134 A 20180330
- IB 2019052340 W 20190322

Abstract (en)

[origin: WO2019186341A1] The present invention concerns a coil winding system of a hot-rolled product comprising: • - a rotating coiler (10) with a vertical axis Y, comprising an outer drum (11) and an inner mandrel (12) coaxial with the outer drum, wherein the outer drum and the inner mandrel delimit an annular interspace (13), which is closed at the bottom by a bottom wall (14) integral with the drum (11) and/or the mandrel (12) and within which the hot-rolled product is deposited and wound in the form of a reel; - means (20) for conveying the hot-rolled product entering the rotating coiler towards the annular interspace. The conveying means are associated with a support frame (21) which is rotationally fixed relative to said coiler. The system comprises means (30) for diverting the hot-rolled product inside the annular interspace from the winding trajectory induced by the rotation of the coiler. The diverting means are located downstream of the conveying means with respect to the entering movement of the hot-rolled product into the coiler and are adapted for setting the radial winding distance R of the hot-rolled product relative to the vertical axis Y of the coiler inside the annular interspace. The diverting means comprise a diverter element (31) which in use comes into contact with the hot-rolled product and the orientation of which inside the annular interspace is adjustable so as to vary the setting of the radial windin distance.

IPC 8 full level

B21C 47/04 (2006.01); **B21C 47/14** (2006.01)

CPC (source: EP KR)

B21C 47/045 (2013.01 - EP KR); **B21C 47/143** (2013.01 - KR); **B21C 47/146** (2013.01 - KR); **B21C 47/143** (2013.01 - EP); **B21C 47/146** (2013.01 - EP)

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

DOCDB simple family (publication)

WO 2019186341 A1 20191003; CN 112055624 A 20201208; CN 112055624 B 20230113; EP 3774104 A1 20210217; EP 3774104 B1 20230726; IT 201800004134 A1 20190930; JP 2021519698 A 20210812; JP 7239674 B2 20230314; KR 20200138781 A 20201210

DOCDB simple family (application)

IB 2019052340 W 20190322; CN 201980023980 A 20190322; EP 19721061 A 20190322; IT 201800004134 A 20180330; JP 2021501116 A 20190322; KR 20207031039 A 20190322