

Title (en)
CONTROL DEVICE FOR ROLLING DEVICE, ROLLING EQUIPMENT, AND METHOD FOR OPERATING ROLLING DEVICE

Title (de)
STEUERUNGSVORRICHTUNG FÜR WALZVORRICHTUNG, WALZAUSRÜSTUNG UND WALZVORRICHTUNGSBETRIEBSVERFAHREN

Title (fr)
DISPOSITIF DE COMMANDE DESTINÉ À UN DISPOSITIF DE LAMINAGE, ÉQUIPEMENT DE LAMINAGE ET PROCÉDÉ DE FONCTIONNEMENT D'UN DISPOSITIF DE LAMINAGE

Publication
EP 3715002 A4 20200930 (EN)

Application
EP 19739502 A 20190129

Priority
JP 2019002884 W 20190129

Abstract (en)
[origin: EP3715002A1] A control device for controlling a rolling device which includes a pair of rolling mill rolls provided to sandwich a metal strip and an unwinding device uncoiling the metal strip at an entrance side of the rolling mill rolls in a traveling direction of the metal strip and which is configured to roll the metal strip by the pair of rolling mill rolls is configured to: after passing a tip part of the metal strip through the pair of rolling mill rolls in a state where a gap between the pair of rolling mill rolls is larger than a strip thickness of the metal strip, press the metal strip by the pair of rolling mill rolls in a state where exit-side tension applied to the metal strip is zero; make entrance-side tension applied to the metal strip by the unwinding device become larger than zero; and start rotation of the pair of rolling mill rolls.

IPC 8 full level
B21C 47/00 (2006.01); **B21B 1/32** (2006.01); **B21B 37/48** (2006.01)

CPC (source: EP)
B21B 1/32 (2013.01); **B21B 37/48** (2013.01); **B21B 37/54** (2013.01); **B21C 47/00** (2013.01); **B21B 2015/0057** (2013.01); **B21B 2015/0064** (2013.01); **B21B 2265/04** (2013.01); **B21B 2265/08** (2013.01); **B21B 2265/20** (2013.01); **B21B 2273/12** (2013.01); **B21B 2275/04** (2013.01); **B21B 2275/06** (2013.01)

Citation (search report)

- [XY] US 6014882 A 20000118 - BERGER BERND [DE], et al
- [Y] JP 2000280014 A 20001010 - HITACHI LTD
- [Y] CN 107052049 A 20170818 - ZHEJIANG XIEHE CERAM CO LTD
- [X] DE 29623757 U1 19990826 - SUNDWIG GMBH [DE]
- See also references of WO 2020157819A1

Cited by
EP4257256A4

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 3715002 A1 20200930; EP 3715002 A4 20200930; EP 3715002 B1 20220615; CN 112334243 A 20210205; CN 112334243 B 20220913; JP 7119130 B2 20220816; JP WO2020157819 A1 20211007; WO 2020157819 A1 20200806

DOCDB simple family (application)
EP 19739502 A 20190129; CN 201980040533 A 20190129; JP 2019002884 W 20190129; JP 2020568908 A 20190129