

Title (en)

ROLL STAND WITH A HYDRAULIC ARRANGEMENT FOR CONTROLLING THE ROLL GAP AND METHOD THEREFOR

Title (de)

WALZGERÜST MIT EINER HYDRAULIKANORDNUNG ZUR REGELUNG DES WALZSPALTS UND VERFAHREN HIERFÜR

Title (fr)

CAGE DE LAMINOIR AVEC UN DISPOSITIF HYDRAULIQUE POUR RÉGLER L'EMPRISE DE LAMINAGE ET PROCÉDÉ POUR CELA

Publication

EP 3790674 B1 20220420 (DE)

Application

EP 19721316 A 20190507

Priority

- EP 18171953 A 20180511
- EP 2019061747 W 20190507

Abstract (en)

[origin: WO2019215197A1] The invention relates to a roll stand, having at least one working roll for rolling strip material and having a hydraulic assembly for controlling a nip of the roll stand, comprising: at least one hydraulic positioning unit (1) for setting the nip (19), the hydraulic positioning unit (1) comprising a cylinder (17) and a positioning piston (2), which divides the cylinder (17) into a first chamber (3) and a second chamber (4); a first double-acting valve assembly (9) and a second double-acting valve assembly (10, 10'), which are each connected to the first chamber (3) and to the second chamber (4) in order to variably control the positioning unit (1), wherein: - the second double-acting valve assembly (10, 10') is connected in parallel with the first valve assembly (9) and has a greater nominal volumetric flow rate than the first valve assembly; and - a working pressure of greater than 200 bar can be applied to the positioning unit (1). The invention further relates to a corresponding method for controlling a nip in the rolling process.

IPC 8 full level

B21B 31/32 (2006.01); **B21B 37/62** (2006.01)

CPC (source: EP US)

B21B 31/32 (2013.01 - EP); **B21B 37/62** (2013.01 - EP US); **B21B 37/26** (2013.01 - EP); **B21B 38/02** (2013.01 - EP); **B21B 38/04** (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)

EP 3566789 A1 20191113; CN 112203782 A 20210108; CN 112203782 B 20230818; EP 3790674 A1 20210317; EP 3790674 B1 20220420; ES 2913976 T3 20220607; PL 3790674 T3 20220808; US 11491523 B2 20221108; US 2021229151 A1 20210729; WO 2019215197 A1 20191114

DOCDB simple family (application)

EP 18171953 A 20180511; CN 201980031601 A 20190507; EP 19721316 A 20190507; EP 2019061747 W 20190507; ES 19721316 T 20190507; PL 19721316 T 20190507; US 201917053388 A 20190507