Title (en)

CIRCULAR ROLLING MILL WITH SHAPING ROLLERS AND METHOD FOR CONTROLLING THE POSITION OF A ROLLER OF SUCH A ROLLING MILL

Title (de)

KREISFÖRMIGES WALZWERK MIT FORMWALZEN UND VERFAHREN ZUR STEUERUNG DER POSITION EINER WALZE SOLCH EINES WALZWERKS

Title (fr)

LAMINOIR CIRCULAIRE AVEC ROULEAUX DE CONFORMATION ET PROCÉDÉ DE CONTRÔLE DE LA POSITION D'UN ROULEAU D'UN TEL LAMINOIR

Publication

EP 3519122 A1 20190807 (FR)

Application

EP 17777254 A 20170929

Priority

- EP 16306289 A 20160930
- EP 2017074736 W 20170929

Abstract (en)

[origin: WO2018060399A1] This circular rolling mill (2) comprises a fixed main frame (4), a pair of cylindrical rollers (62), respectively internal and external, intended to shape internal and external radial faces of an annular part (P) and supported by a first secondary frame (46) mounted on the main frame, as well as a pair of conical rollers (82, 84), respectively upper and lower, intended to shape opposite front faces of the part (P) and supported by a second secondary frame (48) mounted on the main frame. At least one rack and pinion assembly (272-273, 274-275) is provided to move a roller in translation relative to one of the secondary frames (44, 48). At least one electric geared motor (172, 176, 178) is provided to drive the pinion (273, 275) of the rack and pinion assembly. The electric geared motor (172-178) is fixedly mounted relative to one of the auxiliary frames (46, 48). A fluid discharge mechanism (M72, M74) is interposed in a kinematic chain for transmitting force between the rack (272, 274) and the roller moved by this rack. The fluid discharge mechanism (M72, M74) comprises at least one variable volume chamber (C72, C74), which is supplied with pressurised fluid (73) and the volume of which varies as a function of the relative position of the roller and of the rack (272, 274).

IPC 8 full level

B21H 1/06 (2006.01)

CPC (source: EP KR RU US)

B21B 13/10 (2013.01 - US); **B21B 31/32** (2013.01 - US); **B21B 37/52** (2013.01 - US); **B21H 1/06** (2013.01 - EP KR RU US)

Citation (search report)

See references of WO 2018060399A1

Cited by

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