

Title (en)
ROLLING METHOD, A ROLL MILL AND A SCREW-DOWN STRUCTURE

Title (de)
WALZVERFAHREN, WALZWERK UND FESTSCHRAUBKONSTRUKTION

Title (fr)
PROCEDE DE LAMINAGE, LAMINOIR ET DISPOSITIF PRESSEUR POUR LAMINOIR

Publication
EP 1400289 A4 20070718 (EN)

Application
EP 01274032 A 20011114

Priority
• RU 0100481 W 20011114
• RU 2001108349 A 20010328

Abstract (en)
[origin: EP1400289A1] The invention relates to rolling and can be used in mills for hot/cold rolling of ferrous and non-ferrous metals and alloys and also for rolling nonmetal materials. The task of the invention is to simplify the construction of a stand, increase the speed and accuracy of adjusting a clearance between rolls and delicately regulate a force produced in the course of rolling. The stand comprises a housing of nonmagnetic material, working and press rolls, a roll drive means and an electromagnetic system, and the rolls are installed with freedom to move in a vertical plane, the electromagnetic system is configured as at least a pair of III-like cores with coils embracing the internal poles of said cores, the working and press rolls are disposed between the poles of the III-like cores which are mounted symmetrically of a rolling plane, the poles of the III-like cores embrace the rolls beneath diametral planes thereof being in parallel relation to the rolling plane, on the side of the rolling plane and the internal poles embrace the working rolls and the external poles - the press rolls. <??>The screwdown mechanism of a stand comprises a hydraulic screwdown being comprised of a movable and stationary unit which are provided with electromagnetic systems intended for cooperation one with another. <IMAGE>

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Citation (search report)
• [XD] RU 2146971 C1 20000327 - SEVERSTAL AOOT
• [X] RU 2138346 C1 19990927 - OTKRYTOE AKTSIONERNOE OBSHCES
• [X] JP S57206506 A 19821217 - TOKYO SHIBAURA ELECTRIC CO
• [X] RU 2141880 C1 19991127 - OTKRYTOE AKTSIONERNOE OBSHCES
• See references of WO 02076644A1

Cited by
EP1398089A4

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DE

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EP 1400289 A1 20040324; **EP 1400289 A4 20070718**; **EP 1400289 B1 20101229**; DE 60143772 D1 20110210; JP 2004527378 A 20040909; JP 4263486 B2 20090513; RU 2207925 C2 20030710; WO 02076644 A1 20021003

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