

Title (en)  
ROLLING METHOD AND A ROLLING MILL

Title (de)  
WALZVERFAHREN UND WALZWERK

Title (fr)  
PROCEDE DE LAMINAGE ET LAMINOIR

Publication  
**EP 1400289 B1 20101229 (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>

IPC 8 full level  
**B21B 1/22** (2006.01); **B21B 13/02** (2006.01); **B21B 13/00** (2006.01); **B21B 31/20** (2006.01); **B21B 31/32** (2006.01); **B21B 37/58** (2006.01)

CPC (source: EP)  
**B21B 13/02** (2013.01); **B21B 31/20** (2013.01); **B21B 1/22** (2013.01); **B21B 31/32** (2013.01); **B21B 37/58** (2013.01); **B21B 2013/028** (2013.01)

Cited by  
EP1398089A4

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**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

DOCDB simple family (application)  
**EP 01274032 A 20011114**; DE 60143772 T 20011114; JP 2002575148 A 20011114; RU 0100481 W 20011114; RU 2001108349 A 20010328