Title (en)

ROLL STAND FOR ROLLING DIFFERENT ROLLING STOCK THAT REQUIRES DIFFERENT ROLL SEPARATING FORCES

Title (de)

WÄLZGERÜST ZUM WALZEN VON UNTERSCHIEDLICHEM WALZGUT, DAS UNTERSCHIEDLICHE WALZKRÄFTE ERFORDERT

Title (fr)

CAGE DE LAMINOIR DESTINEE AU LAMINAGE DE DIFFERENTS LAMINES NECESSITANT DIFFERENTES FORCES DE LAMINAGE

Publication

EP 1420898 B1 20050216 (DE)

Application

EP 02797582 A 20020816

Priority

• DE 10141180 A 20010822
• EP 0209195 W 20020816

Abstract (en)

[origin: WO03020452A1] The invention relates to a roll stand for rolling different rolling stock that requires different roll separating forces. The inventive roll stand comprises working rolls, back-up rolls, optionally a roll bending device for the working rolls and optionally a device for adjusting and balancing the back-up rolls, and pairs of adjustment cylinders (3) between the roll stands (1) and the chocks (2). According to the invention, the adjustment cylinders (3) consist of respective telescope cylinders (4), in which a first, concentric cylinder (5) having a large diameter is provided for high roll separating forces and a second, concentric cylinder (15) having a smaller diameter is provided for lower roll separating forces, thereby avoiding high friction losses.

IPC 1-7

B21B 31/32

IPC 8 full level

B21B 31/20 (2006.01); **B21B 31/32** (2006.01)

CPC (source: EP KR US)

B21B 31/32 (2013.01 - EP KR US)

Cited by

EP3031540A1; DE102014225162B4; DE102007048686A1; DE102014207859A1; DE202014010143U1; DE102014225162A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03020452 A1 20030313; AT E289227 T1 20050315; BR 0211553 A 20040713; BR 0211553 B1 20091201; CA 2457177 A1 20030313; CA 2457177 C 20100907; CN 1251816 C 20060419; CN 1547515 A 20041117; DE 10141180 A1 20030306; DE 50202291 D1 20050324; EP 1420898 A1 20040526; EP 1420898 B1 20050216; ES 2236618 T3 20050716; JP 2005501718 A 20050120; JP 4430933 B2 20100310; KR 100849120 B1 20080730; KR 20040028970 A 20040403; RU 2004108118 A 20050327; RU 2294253 C2 20070227; UA 78222 C2 20070315; US 2004187538 A1 20040930; US 7347073 B2 20080325; ZA 200400397 B 20040719

DOCDB simple family (application)

EP 0209195 W 20020816; AT 02797582 T 20020816; BR 0211553 A 20020816; CA 2457177 A 20020816; CN 02816513 A 20020816; DE 10141180 A 20010822; DE 50202291 T 20020816; EP 02797582 A 20020816; ES 02797582 T 20020816; JP 2003524748 A 20020816; KR 20047001597 A 20020816; RU 2004108118 A 20020816; UA 2004032073 A 20020816; US 48617004 A 20040203; ZA 200400397 A 20040120