

Title (en)  
Roll stand

Title (de)  
Walzgerüst

Title (fr)  
Cage de laminoir

Publication  
**EP 1849535 A1 20071031 (DE)**

Application  
**EP 07007043 A 20070404**

Priority  
DE 102006019514 A 20060427

Abstract (en)

The roll stand for the rolling tube, comprises a roll (3) present on a roll shaft (2), which is detachably connected in an axial end over a coupling (4) with a drive shaft (5), and a roll changing device (6) exhibiting devices for lowering or lifting the roll from its working position into a roll changing position, drawing cars (9) for moving a coupling part (10) arranged in longitudinal direction of the roll shaft, coupling device, a coupling support for mounting the coupling in non-displaceable or fixed manner, and two roll racks fixedly arranged on base frame of the roll stand. Roll stand for the rolling tube, comprises a roll (3) present on a roll shaft (2), which is detachably connected in an axial end over a coupling (4) with a drive shaft (5), and a roll changing device (6) exhibiting devices for lowering or lifting the roll from its working position into a roll changing position, drawing cars (9) for moving a coupling part (10) arranged in longitudinal direction of the roll shaft, coupling device, a coupling support for mounting the coupling in non-displaceable or fixed manner, and two roll racks fixedly arranged on base frame of the roll stand. The coupling device is arranged in an axial end of the roll shaft with the coupling part arranged on the drawing cars. The coupling part is formed as a sheet with a slit- or U-shaped cavity and the coupling device is formed as a shaft with annular groove. The inner width of the groove in groove base is slightly smaller than the width of the slit- or the U-shaped cavity in the coupling part. The drawing cars exhibit a reception for one of chocks of the roll in order to move the roll in the axial displacement of the drawing cars, and a guidance forming a positive connection between the drawing cars and the chocks. The drawing car is movable relative to the roll stand in horizontal direction by means of a moving element (17). The guidance exhibits a contact surface extending vertically itself for the chocks.

Abstract (de)

Walzgerüst mit mindestens einer sich bei bestimmungsgemäßer Benutzung auf einer Walzenwelle (2) befindlichen Walze (3), wobei die Walzenwelle (2) eine zentrische Bohrung der Walze (3) durchsetzt, wobei die Walzenwelle (2) in einem axialen Endbereich über eine Kupplung (4) mit einer Antriebswelle (5) lösbar verbunden ist und dem Walzgerüst (1) eine Walzenwechselvorrichtung (6) zugeordnet ist, weist die Walzenwechselvorrichtung (6) auf. Mittel (7, 8) zum Absenken oder Anheben der Walze (3) von ihrer Arbeitsposition in eine Walzenwechselposition; einen Ziehwagen (9) zum Bewegen eines auf diesem angeordneten Kupplungssteils (10) in Längsrichtung der Walzenwelle (2) und in einem axialen Endbereich der Walzenwelle (2) angeordnete Kupplungsmittel (11) zum formschlüssigen Zusammenwirken mit dem auf dem Ziehwagen (9) angeordneten Kupplungsteil (10).

IPC 8 full level  
**B21B 31/12** (2006.01)

CPC (source: EP US)  
**B21B 31/12** (2013.01 - EP US)

Citation (applicant)

- GB 1210738 A 19701028 - MANNESMANN MEER AG [DE]
- DE 3912684 A1 19901004 - BUELTMANN MONIKA [DE]

Citation (search report)

- [A] GB 1210738 A 19701028 - MANNESMANN MEER AG [DE]
- [A] EP 1184095 A2 20020306 - KAWASAKI STEEL CO [JP]
- [AD] DE 3912684 A1 19901004 - BUELTMANN MONIKA [DE]
- [A] WO 2005018843 A1 20050303 - SMS DEMAG AG [DE], et al

Cited by  
CN104438347A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)

**US 2007251284 A1 20071101; US 7469566 B2 20081230;** AT E467466 T1 20100515; DE 102006019514 B3 20070927;  
DE 502007003691 D1 20100624; EP 1849535 A1 20071031; EP 1849535 B1 20100512; ES 2344229 T3 20100820; JP 2007296581 A 20071115;  
JP 4749374 B2 20110817

DOCDB simple family (application)

**US 78859207 A 20070420;** AT 07007043 T 20070404; DE 102006019514 A 20060427; DE 502007003691 T 20070404;  
EP 07007043 A 20070404; ES 07007043 T 20070404; JP 2007103872 A 20070411