

Title (en)

DEVICE FOR BENDING AND BALANCING AXIAL MOVABLE ROLLS OF A ROLLING STAND

Publication

EP 0340504 A3 19900606 (DE)

Application

EP 89106674 A 19890414

Priority

DE 3815454 A 19880506

Abstract (en)

[origin: EP0340504A2] In a device for bending and balancing axially movable rolls of a rolling stand, in particular for the work rolls of a four-high rolling stand, in which there is on both sides a guide block 11 which is fixed to the housing in the window of each rolling-stand housing 3, and the roll chocks 4, 5 are supported to slide horizontally on an upper and lower lifting cage 6, 7, respectively, guided vertically on the guide block, and the roll bending forces are transmitted to the roll chocks by bending cylinders 16, 17, an improvement as regards the transmission of the bending and displacement forces to the roll chocks is achieved by virtue of the fact that at least one, preferably hydraulically acting bending cylinder 16, 17 engages on each upper and lower lifting cage 6, 7, the said bending cylinder(s) being supported on the guide block 11 fixed to the housing.
<IMAGE>

IPC 1-7

B21B 29/00

IPC 8 full level

B21B 29/00 (2006.01); **B21B 31/18** (2006.01); **B21B 31/20** (2006.01)

CPC (source: EP US)

B21B 29/00 (2013.01 - EP US); **B21B 31/18** (2013.01 - EP US); **B21B 31/203** (2013.01 - EP US)

Citation (search report)

- [AD] DE 3627690 A1 19880225 - SCHLOEMANN SIEMAG AG [DE]
- [Y] EP 0084927 A1 19830803 - HITACHI LTD [JP]
- [A] EP 0238377 A1 19870923 - CLECIM SA [FR]
- [A] US 3398564 A 19680827 - HEINRICH BARTEN ERNST
- [Y] PATENT ABSTRACTS OF JAPAN

Cited by

EP1772203A1; EP0738546A1; FR2733171A1; AU2004261385B2; KR101121500B1; US7895871B2; US8132440B2; US9802231B2; WO2005011885A1; WO2010084011A1; WO2010012465A3; WO2007042142A1; WO2010034481A3

Designated contracting state (EPC)

AT BE DE ES FR GB IT

DOCDB simple family (publication)

EP 0340504 A2 19891108; EP 0340504 A3 19900606; EP 0340504 B1 19930224; AT E85912 T1 19930315; DE 3815454 A1 19891116; DE 58903588 D1 19930401; ES 2038798 T3 19930801; US 4967582 A 19901106

DOCDB simple family (application)

EP 89106674 A 19890414; AT 89106674 T 19890414; DE 3815454 A 19880506; DE 58903588 T 19890414; ES 89106674 T 19890414; US 34862889 A 19890508