

Title (en)

METHOD AND DEVICE FOR CHANGING PAIRS OF WORKING ROLLS AND/OR PAIRS OF BACK-UP ROLLS ON ROLL STANDS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM WECHSELN VON ARBEITSWALZENPAAREN UND/ ODER STÜTZWALZENPAAREN AN WALZGERÜSTEN

Title (fr)

PROCEDE ET DISPOSITIF POUR CHANGER DES PAIRES DE CYLINDRES DE TRAVAIL OU DES PAIRES DE CYLINDRES D'APPUI DANS DES CAGES DE LAMINOIR

Publication

EP 1507606 B1 20060118 (DE)

Application

EP 03722506 A 20030417

Priority

- DE 10223000 A 20020524
- EP 0304049 W 20030417

Abstract (en)

[origin: WO03099479A1] The invention relates to a method and a device for changing pairs of working rolls (2) and/or pairs of back-up rolls (3) on roll stands (1), wherein a linear drive (7) for chocks (4) that are guided in supporting planes, in a direction perpendicular to the rolling direction, induces the pair of working rolls (2) mounted in the chocks (4) to withdraw or insert, and wherein a linear drive (7) withdraws or extends the pair of back-up rolls that is supported on a roll changing frame (11). In order to save time and effort, the pair of working rolls (2), after coupling to the linear drive (7) is extended and decoupled, and the same linear drive (7) is coupled to a roll changing frame (11) that is withdrawn between the back-up rolls (3a, 3b) and, when the roll changing frame (11) and the upper back-up roll (3a) are supported on the lower back-up roll (3b), is extended or withdrawn as a single unit.

IPC 8 full level

B21B 31/10 (2006.01); **B21B 13/02** (2006.01)

CPC (source: EP KR US)

B21B 31/10 (2013.01 - KR); **B21B 31/103** (2013.01 - EP US); **B21B 2013/025** (2013.01 - EP US)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 03099479 A1 20031204; AT E315968 T1 20060215; AU 2003229696 A1 20031212; BR 0307999 A 20050209; BR 0307999 B1 20111116; CA 2484764 A1 20031204; CA 2484764 C 20101019; CN 100341636 C 20071010; CN 1655886 A 20050817; DE 10223000 A1 20031204; DE 50302241 D1 20060406; EP 1507606 A1 20050223; EP 1507606 B1 20060118; JP 2005533654 A 20051110; KR 100979424 B1 20100902; KR 20040105848 A 20041216; RU 2004137814 A 20050610; RU 2311242 C2 20071127; TW 200306894 A 20031201; TW I283608 B 20070711; US 2005138982 A1 20050630; US 7165432 B2 20070123; ZA 200406534 B 20050614

DOCDB simple family (application)

EP 0304049 W 20030417; AT 03722506 T 20030417; AU 2003229696 A 20030417; BR 0307999 A 20030417; CA 2484764 A 20030417; CN 03811779 A 20030417; DE 10223000 A 20020524; DE 50302241 T 20030417; EP 03722506 A 20030417; JP 2004506994 A 20030417; KR 20047015906 A 20030417; RU 2004137814 A 20030417; TW 92108779 A 20030416; US 50984904 A 20041001; ZA 200406534 A 20040817