

Title (en)

Method and device for changing the rolls of rolling stands of different sizes

Title (de)

Verfahren und Einrichtung zum Auswechseln der Walzen von Walzgerüsten unterschiedlicher Baugröße

Title (fr)

Procédé et dispositif pour remplacer les cylindres de cages de laminoir de dimensions différentes

Publication

EP 1005924 A3 20030115 (DE)

Application

EP 99123801 A 19991201

Priority

DE 19855652 A 19981203

Abstract (en)

[origin: DE19855652C1] Roll mounting (2) with rolls (1) in its vertical orientation is removed from roll stand and pivoted to horizontal position. Bearing blocks (3) are removed from their journals and placed into parking position, and then rolls are changed. Bearing blocks are installed on new rolls. Roll mounting is pivoted to original vertical orientation and returned to roll stand structure by transport unit. An Independent claim is given for the apparatus used to implement the process. The apparatus includes: device (I) for pivoting the roll mounting; device (II) for handling the bearing blocks; and multi-functional device (III) adaptable to different roll stand sizes for transporting the roll mounting and rolls.

IPC 1-7

B21B 31/08

IPC 8 full level

B21B 31/08 (2006.01)

CPC (source: EP US)

B21B 31/08 (2013.01 - EP US)

Citation (search report)

- [XA] US 4726108 A 19880223 - POLONI ALFREDO [IT]
- [XA] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 05 30 April 1998 (1998-04-30)
- [XA] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 05 31 May 1996 (1996-05-31)
- [XA] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02 29 February 1996 (1996-02-29)

Cited by

CN105396876A; CN106111704A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19855652 C1 20000323; BR 9905701 A 20000905; EP 1005924 A2 20000607; EP 1005924 A3 20030115; US 6167738 B1 20010102

DOCDB simple family (application)

DE 19855652 A 19981203; BR 9905701 A 19991203; EP 99123801 A 19991201; US 44960099 A 19991129