

Title (en)

DEVICE FOR BENDING AND BALANCING AXIAL MOVABLE WORKING ROLLS OF A FOUR-HIGH STAND

Publication

EP 0256408 A3 19880601 (DE)

Application

EP 87111182 A 19870803

Priority

DE 3627690 A 19860814

Abstract (en)

[origin: EP0256408A2] In the device, a fixed guide block is fastened on both sides in the window of each roll housing. The force of bending cylinders is transferred to the working roll fittings, guided displaceably in the axial direction and vertically. To provide a robust, operationally reliable bending and balancing device which transfers the bending and displacing forces to the working roll fittings (4, 5) without any tilting moment and with acceptable friction between guiding surfaces, the working roll fittings (4, 5) are supported on both sides each by one sliding surface (25, 27), arranged midway up on a guiding shoulder (24, 26) of a lower and upper lifting housing (14 and 15 respectively), guided vertically on the guide block (12, 13). Each lifting housing (14, 15) is also assigned guiding surfaces (21a, 18a) on a level with what is respectively the other lifting housing (15 or 14). <IMAGE>

IPC 1-7

B21B 31/18; **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)

B21B 29/00 (2013.01); **B21B 31/18** (2013.01); **B21B 31/203** (2013.01); **B21B 2269/14** (2013.01)

Citation (search report)

- [AD] DE 3331055 A1 19850314 - SCHLOEMANN SIEMAG AG [DE]
- [AD] EP 0026903 A1 19810415 - HITACHI LTD [JP]
- [AD] EP 0067040 A2 19821215 - HITACHI LTD [JP]
- [A] DE 6608041 U 19710603 - SIEMAG SIEGENER MASCH BAU [DE]
- [A] EP 0059417 A1 19820908 - SCHLOEMANN SIEMAG AG [DE]
- [A] US 3857268 A 19741231 - KAJIWAKA T

Cited by

WO2010084011A1; EP0768125A1; CN102292171A; GB2202173B; US6164111A; DE19938217C2; US8132440B2; US8196444B2; WO0202254A1; DE102009058876A1; US9802231B2; TWI451917B

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