

Title (en)
BENDING DEVICE FOR THE WORKING ROLLS OF A HOT-ROLLING FRAME

Title (de)
BIEGEVORRICHTUNG FÜR DIE ARBEITSWALZEN EINES WARMWALZGERÜSTES

Title (fr)
DISPOSITIF DE PLIAGE POUR LES CYLINDRES DE TRAVAIL D'UNE CAGE DE LAMINOIR A CHAUD

Publication
EP 1181114 B1 20030305 (DE)

Application
EP 00927155 A 20000506

Priority
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• EP 0004075 W 20000506

Abstract (en)
[origin: US6993951B1] A hot-rolling stand including blocks arranged in the stand windows and having hydraulic piston cylinder units provided as bending devices which are able to transfer bending forces via guide elements onto the chocks of the working rolls. For each block a double-acting hydraulic piston cylinder unit is provided whose two ends are connected with the guide elements. The guide elements have guide that engage both sides of the free ends of noses of the working roll chocks so as to permit axial movement of the working rolls.

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B21B 29/00

IPC 8 full level
B21B 29/00 (2006.01); **B21B 31/02** (2006.01); **B21B 31/10** (2006.01)

CPC (source: EP KR US)
B21B 13/00 (2013.01 - KR); **B21B 29/00** (2013.01 - EP US); **B21B 31/106** (2013.01 - EP US)

Cited by
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US 6993951 B1 20060207; AT E233614 T1 20030315; AU 4562600 A 20001205; BR 0010578 A 20020219; CA 2373260 A1 20001123; CA 2373260 C 20070424; CN 1142834 C 20040324; CN 1350480 A 20020522; DE 19922373 A1 20001116; DE 50001393 D1 20030410; EA 003224 B1 20030227; EA 200101202 A1 20020829; EP 1181114 A1 20020227; EP 1181114 B1 20030305; ES 2193955 T3 20031116; JP 2002543986 A 20021224; JP 5170920 B2 20130327; KR 100626609 B1 20060922; KR 20020000884 A 20020105; MX PA01011655 A 20040910; WO 0069579 A1 20001123; WO 0069579 A8 20031211

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