

Title (en)

ADJUSTING ROLL IN ROLLING FRAMES, AMONG OTHERS VERTICAL UPSET FORGING FRAMES

Title (de)

ANSTELLZYLINDER IN WALZGERÜSTEN, UNTER ANDEREM IN VERTIKAL-STAUCHGERÜSTEN

Title (fr)

CYLINDRE DE REGLAGE DANS DES CAGES DE LAMINOIR, NOTAMMENT DANS DES CAGES DE REFOULEMENT VERTICALES

Publication

**EP 1687104 B1 20081217 (DE)**

Application

**EP 04790637 A 20041019**

Priority

- EP 2004011815 W 20041019
- DE 10354235 A 20031119
- DE 102004039494 A 20040814

Abstract (en)

[origin: US7743638B2] An adjusting cylinder for long, rapid lifting movements in rolling stands, including vertical edging stands, wherein each adjusting cylinder has at least one piston which acts through the bearing chocks of at least one work roll or of an interposed roll to adjust a work roll on both sides, wherein each adjusting cylinder has a piston that is equipped with two oppositely directed piston rods, and each piston is inserted in a recess in the cylinder base or cylinder cover, such that the base and cover have coaxially arranged bores through which the piston rods pass. The surface formed by the piston and the piston rod is smaller than the surface formed by the piston and the piston rod.

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

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BR PI0416696 A 20070130; CA 2542103 A1 20050602; CA 2542103 C 20110809; CN 100478091 C 20090415; CN 1882399 A 20061220;  
DE 102004039494 A1 20050623; DE 502004008707 D1 20090129; EP 1687104 A1 20060809; EP 1687104 B1 20081217;  
ES 2317062 T3 20090416; JP 2007533463 A 20071122; JP 4762906 B2 20110831; KR 101121502 B1 20120315; KR 20060118445 A 20061123;  
RU 2006121427 A 20071227; RU 2355491 C2 20090520; TW 200517197 A 20050601; TW I342805 B 20110601; US 2007062240 A1 20070322;  
US 2009183545 A1 20090723; US 2009193867 A1 20090806; US 7631531 B2 20091215; US 7726168 B2 20100601; US 7743638 B2 20100629

DOCDB simple family (application)

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TW 93132713 A 20041028; US 32118209 A 20090117; US 32119309 A 20090117; US 58016804 A 20041019