

Title (en)

CLUSTER MILL, IN PARTICULAR A SIX-HIGH CLUSTER MILL, COMPRISING AN AXIAL DISPLACEMENT AND HOLDING DEVICE FOR DISPLACEABLY MOUNTED INTERMEDIATE ROLLS AND/OR WORKING ROLLS

Title (de)

VIELWALZENGERÜST, INSBESONDERE SEXTO-WALZGERÜST, MIT EINER AXIALVERSCHIEBE- UND HALTEVORRICHTUNG FÜR VERSCHIEBBAR GELAGERTE ZWISCHENWALZEN UND/ODER ARBEITSWALZEN

Title (fr)

LAMINOIR A PLUSIEURS CYLINDRES, EN PARTICULIER LAMINOIR A SIX CYLINDRES, COMPRENANT UN DISPOSITIF DE DEPLACEMENT AXIAL ET DE FIXATION POUR DES CYLINDRES INTERMEDIAIRES ET/OU DES CYLINDRES DE TRAVAIL MOBILES

Publication

EP 1465742 A1 20041013 (DE)

Application

EP 02787911 A 20021205

Priority

- DE 10202217 A 20020118
- EP 0213765 W 20021205

Abstract (en)

[origin: WO03059545A1] The invention relates to a cluster mill comprising an axial displacing device and holding device for displaceable intermediate and/or working rolls (11). The inserts (7) are guided in a sliding manner inside the cluster mill stands (1). The rolls (11) can be displaced in an axially opposite manner by means of piston-cylinder units (5), and the piston rods (5a) are connected to a main traverse (4) in an articulated manner. The aim of the invention is to prevent the main traverse (4) from becoming damaged by non-uniform action of the piston-cylinder units (5) during displacement. To this end, the invention provides that moving beams (1a), which are located on both sides of the roll insert (7), are mounted inside the cluster mill stands (1) via the connecting traverse (2). In addition, the connecting traverses (2) are connected to the middle of the main traverse (4) in an articulated manner, whereby the piston rods (5a) of the piston-cylinder units (5) are connected to the ends (4a, 4b) of the main traverse (4) in an articulated manner, and each piston-cylinder unit (5) can be controlled according to the path by means of a displacement sensor (10).

IPC 1-7

B21B 31/18

IPC 8 full level

B21B 13/14 (2006.01); **B21B 31/02** (2006.01); **B21B 31/18** (2006.01)

CPC (source: EP US)

B21B 31/18 (2013.01 - EP US)

Citation (search report)

See references of WO 03059545A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 03059545 A1 20030724; AT E327841 T1 20060615; AU 2002352219 A1 20030730; CN 1292849 C 20070103; CN 1615188 A 20050511; DE 10202217 A1 20030731; DE 50207039 D1 20060706; EP 1465742 A1 20041013; EP 1465742 B1 20060531; JP 2005514209 A 20050519; JP 4325993 B2 20090902; RU 2004125175 A 20050610; RU 2301124 C2 20070620; US 2005081593 A1 20050421; US 7032424 B2 20060425

DOCDB simple family (application)

EP 0213765 W 20021205; AT 02787911 T 20021205; AU 2002352219 A 20021205; CN 02827292 A 20021205; DE 10202217 A 20020118; DE 50207039 T 20021205; EP 02787911 A 20021205; JP 2003559697 A 20021205; RU 2004125175 A 20021205; US 50168104 A 20041215