

Title (en)
ROLLER MILL

Title (de)
ROLLENMÜHLE

Title (fr)
BROYEUR À CYLINDRES

Publication
EP 2445639 B1 20140507 (DE)

Application
EP 11708396 A 20110222

Priority
• EP 2011000837 W 20110222
• DE 102010012893 A 20100326

Abstract (en)
[origin: CA2778366A1] In this roller mill (3) with a vertical axis (1), the grinding rollers (5) are mounted via the grinding roller shafts (6) in bearing housings (7) which are equipped with rolling bearings and which are fastened outside the roller mill housing on concrete foundations (9). Between the bearing housings (7) of the grinding roller bearing arrangement and the concrete foundations (9) are situated so-called scissor lift tables (8) which, by means of an integrated hydropneumatic suspension, press the grinding rollers inside the roller mill housing onto the material for grinding situated on the grinding plate (3) and carry out the grinding process. Moreover, the scissor lift tables (8) have the function of stabilizing the grinding rollers (3) against tangential forces and of allowing only a pure vertical movement for the grinding rollers. This means that a tilting of the grinding rollers is effectively prevented by the scissor lift tables. The scissor lift tables with the grinding roller units fastened thereon stand on fixable movable bases, with the result that the grinding roller units can be moved individually out of the roller mill housing or the grinding rollers can be slightly displaced radially on the grinding plate.

IPC 8 full level
B02C 15/00 (2006.01)

CPC (source: EP US)
B02C 15/007 (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102010012893 A1 20110929; BR 112012013672 A2 20160419; CA 2778366 A1 20110929; CL 2012001743 A1 20121105; CN 102711997 A 20121003; CN 102711997 B 20140813; DK 2445639 T3 20140811; EP 2445639 A1 20120502; EP 2445639 B1 20140507; JP 2013523418 A 20130617; PE 20130361 A1 20130407; US 2013008989 A1 20130110; WO 2011116860 A1 20110929; ZA 201202821 B 20121128

DOCDB simple family (application)
DE 102010012893 A 20100326; BR 112012013672 A 20110222; CA 2778366 A 20110222; CL 2012001743 A 20120625; CN 201180004691 A 20110222; DK 11708396 T 20110222; EP 11708396 A 20110222; EP 2011000837 W 20110222; JP 2013500355 A 20110222; PE 2012000883 A 20110222; US 201113583900 A 20110222; ZA 201202821 A 20120418