

Title (en)  
ROLL MILL

Title (de)  
WALZENMÜHLE

Title (fr)  
BROYEUR À CYLINDRES

Publication  
**EP 2988874 B1 20190605 (DE)**

Application  
**EP 14719290 A 20140422**

Priority  
• DE 102013104097 A 20130423  
• EP 2014058099 W 20140422

Abstract (en)  
[origin: CA2907836A1] The invention relates to a roll mill with two roll units (2, 3) which are arranged in a machine frame (1) and each comprise a grinding roll (20, 30) rotatably mounted in two bearing blocks (22, 23, 32, 33), wherein: the two grinding rolls (20, 30) are disposed opposite one another and are each coupled to a drive (4, 5) for driving the grinding rolls in opposing directions; a force-application system (50) for generating a grinding force is provided between the machine frame (1) and at least one roll unit (3), the grinding force being transferred via the machine frame (1) and the bearing blocks (22, 23, 32, 33) to the grinding rolls (20, 30); and the machine frame (1) consists of a plurality of frame parts (10, 11, 12, 13), a detachable, interlocking connection having two connecting surfaces (15a, 12a) pressed against each other being provided between at least two interconnected frame parts and/or between at least one frame part and one of the bearing blocks in order to transfer the grinding force, at least one of the two connecting surfaces (15a, 12a) pressed against each other having a coating (8, 9) which generates a microscale interlocking connection.

IPC 8 full level  
**B02C 4/28** (2006.01); **B02C 4/02** (2006.01); **B30B 3/04** (2006.01); **B30B 15/04** (2006.01)

CPC (source: EP RU US)  
**B02C 4/02** (2013.01 - EP US); **B02C 4/28** (2013.01 - EP RU US); **B30B 3/04** (2013.01 - EP US); **B30B 15/04** (2013.01 - EP US)

Citation (examination)  
• WO 2007137445 A1 20071206 - HARTCHROM AG [CH], et al  
• US 3828515 A 19740813 - PALAGYI T, et al  
• DE 4110643 A1 19921008 - KRUPP POLYSIUS AG [DE]

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 102013104097 A1 20141023**; AU 2014257639 A1 20151015; AU 2014257639 B2 20171123; BR 112015024710 A2 20170718; CA 2907836 A1 20141030; CA 2907836 C 20161011; CL 2015002853 A1 20160328; CN 105142791 A 20151209; CN 105142791 B 20180727; DK 2988874 T3 20190812; EP 2988874 A1 20160302; EP 2988874 B1 20190605; MX 2015013341 A 20160808; PE 20151825 A1 20151220; RU 2015150035 A 20170526; RU 2015150035 A3 20180306; RU 2650546 C2 20180416; US 2016101424 A1 20160414; WO 2014173875 A1 20141030; ZA 201506900 B 20170222

DOCDB simple family (application)  
**DE 102013104097 A 20130423**; AU 2014257639 A 20140422; BR 112015024710 A 20140422; CA 2907836 A 20140422; CL 2015002853 A 20150924; CN 201480023426 A 20140422; DK 14719290 T 20140422; EP 14719290 A 20140422; EP 2014058099 W 20140422; MX 2015013341 A 20140422; PE 2015002055 A 20140422; RU 2015150035 A 20140422; US 201414786933 A 20140422; ZA 201506900 A 20150917