

Title (en)

MILL FOR CRUSHING A BED OF MATERIALS BY COMPRESSION

Title (de)

MÜHLE ZUM ZERKLEINERN EINES MATERIALIENBETTES DURCH VERDICHTEN

Title (fr)

BROYEUR PAR COMPRESSION DE LIT DE MATIÈRES

Publication

**EP 3204163 A1 20170816 (FR)**

Application

**EP 15797118 A 20151007**

Priority

- FR 1459719 A 20141010
- FR 2015052691 W 20151007

Abstract (en)

[origin: WO2016055734A1] Mill (1) for crushing a bed of materials by compression and comprising: a horizontal-axis cylinder (2) the interior wall of which is provided with a runway track for a crushing roller (3) placed inside said cylinder, means for driving the cylinder in rotation about its axis at a speed that spins the material outward, said crushing roller (3), means for pressing said crushing roller against the runway track of said cylinder, an inlet (7) for supplying material for crushing and situated at one of the ends of the cylinder and an outlet (8) for crushed material at the other end of said cylinder, means for controlling the movement of the material so that it travels over only a fraction of the length of the cylinder in each revolution and passes between the cylinder and the roller several times before reaching the outlet. According to the invention, the runway track is followed by a downstream lip intended to oppose the flow of the material, situated downstream of said crushing roller in the direction in which the material travels, said downstream lip comprising several elements (4) arranged along an interior perimeter of said cylinder (2).

IPC 8 full level

**B02C 15/06** (2006.01)

CPC (source: CN EP RU US)

**B02C 15/003** (2013.01 - US); **B02C 15/06** (2013.01 - CN EP RU US); **B02C 2210/02** (2013.01 - 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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2016055734 A1 20160414**; BR 112017007208 A2 20180116; BR 112017007208 B1 20210803; BR 112017007208 B8 20211228; CN 107107066 A 20170829; CN 107107066 B 20200505; DK 3204163 T3 20200831; EP 3204163 A1 20170816; EP 3204163 B1 20200729; ES 2812623 T3 20210317; FR 3026967 A1 20160415; FR 3026967 B1 20161028; JP 2017530005 A 20171012; MX 2017004643 A 20170717; RU 2017115947 A 20181113; RU 2017115947 A3 20190321; RU 2701679 C2 20190930; UA 120862 C2 20200225; US 10589281 B2 20200317; US 2017304834 A1 20171026

DOCDB simple family (application)

**FR 2015052691 W 20151007**; BR 112017007208 A 20151007; CN 201580054730 A 20151007; DK 15797118 T 20151007; EP 15797118 A 20151007; ES 15797118 T 20151007; FR 1459719 A 20141010; JP 2017518917 A 20151007; MX 2017004643 A 20151007; RU 2017115947 A 20151007; UA A201704438 A 20151007; US 201515517598 A 20151007