

Title (en)
BED ROLLER MILL

Title (de)
GUTBETTWALZENMÜHLE

Title (fr)
BROYEUR PAR COMPRESSION DE LIT DE MATIÈRES

Publication
EP 2785461 B1 20160203 (FR)

Application
EP 12816691 A 20121130

Priority
• FR 1103689 A 20111202
• FR 2012052768 W 20121130

Abstract (en)
[origin: WO2013079883A1] The invention relates to a compressive grinder (1) for a bed of materials (5), including: a cylinder (2) which has a horizontal axis (A), and the inner wall of which comprises a raceway for a grinding roller (3) arranged inside said cylinder (2); a means for rotating the cylinder about the axis (A) thereof; said grinding roller (3), which has an axis that is parallel to the axis (A) of the cylinder (2); a means for urging said grinding roller (3) against the raceway of said cylinder (2); and an input for supplying material to be ground at one end of said cylinder (2) and an outlet for the ground material at the other end of said cylinder (2). According to the invention, the grinder includes: a smoothing roller (4) arranged upstream from said grinding roller (3) in the direction of rotation (R) of said cylinder (2); a means for keeping the smoothing roller (4) adjacent to and separated from the raceway of said cylinder (2), such that, upon each turn of the cylinder (2), the material consecutively passes under the smoothing roller (4) and then under the grinding roller (3), said smoothing roller (4) exerting, on the bed of materials (5), a pressure that smoothes the surface thereof, said pressure being lower than the pressure (P) exerted by said grinding roller (3) on said bed of materials (5).

IPC 8 full level
B02C 15/06 (2006.01)

CPC (source: EP RU US)
B02C 15/06 (2013.01 - EP RU US); **B02C 23/00** (2013.01 - RU 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)
WO 2013079883 A1 20130606; BR 112014013272 A2 20170613; CA 2855958 A1 20130606; CA 2855958 C 20190226; CN 103998137 A 20140820; CN 103998137 B 20160907; DK 2785461 T3 20160307; EP 2785461 A1 20141008; EP 2785461 B1 20160203; FR 2983418 A1 20130607; FR 2983418 B1 20131122; JP 2015500137 A 20150105; JP 6386380 B2 20180905; MX 2014006565 A 20140709; MX 342818 B 20161012; RU 2014126878 A 20160127; RU 2601582 C2 20161110; UA 111638 C2 20160525; US 2014326810 A1 20141106; US 9675977 B2 20170613

DOCDB simple family (application)
FR 2012052768 W 20121130; BR 112014013272 A 20121130; CA 2855958 A 20121130; CN 201280059468 A 20121130; DK 12816691 T 20121130; EP 12816691 A 20121130; FR 1103689 A 20111202; JP 2014543961 A 20121130; MX 2014006565 A 20121130; RU 2014126878 A 20121130; UA A201405938 A 20121130; US 201214359423 A 20121130