

Title (en)
BED ROLLER MILL

Title (de)
GUTBETTWALZENMÜHLE

Title (fr)
BROYEUR PAR COMPRESSION DE LIT DE MATIÈRES

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Application
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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).

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