

Title (en)  
BALL MILL WITH SPATIAL IMBALANCE COMPENSATION

Title (de)  
KUGELMÜHLE MIT RÄUMLICHER UNWUCHTKOMPENSATION

Title (fr)  
BROYEUR À BOULETS DOTÉ D'UNE COMPENSATION DE DÉSÉQUILIBRE SPATIALE

Publication  
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Application  
**EP 13731070 A 20130614**

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• EP 2013062402 W 20130614

Abstract (en)  
[origin: WO2013186372A1] The invention relates to a ball mill (10), comprising at least two milling cup retainers (13) arranged on a machine base plate (12), each milling cup retainer being designed for a milling cup (23) clamped in the milling cup retainer in a lying position, each milling cup having end-face milling cup ends and a filling of balls as milling bodies, and comprising a drive that causes a rotational motion of the milling cup retainers (3), which ball mill is characterized in that each of the milling cup retainers, which are arranged in pairs, is put into restraint-guided circular motion oriented parallel to the plane of the machine base plate by means of the drive via two eccentric shafts (25) connected to the milling cup retainers on faces opposite each other in relation to an axis of symmetry of the milling cup, a counterweight (28) being arranged on each of the two eccentric shafts associated with a respective milling cup retainer and passing through the machine base plate, below the machine base plate, and on the face of the eccentric shaft opposite the connection of the milling cup retainer to the eccentric shaft in relation to the longitudinal axis of the eccentric shaft, as a mass equalizer for the milling cup retainer connected to the eccentric shaft together with the milling cup (23) clamped in the milling cup retainer, and that for the two milling cup retainers, the eccentricities of the two eccentric shafts connected to the milling cup retainers are equal, and the counterweights thereof are arranged on faces opposite each other in relation to the longitudinal axis of the milling cups and the milling cup retainers are put into an out-of-phase circular motion by means of the drive.

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