

Title (en)
MATERIAL BREAKING DEVICE

Title (de)
MATERIALAUFBRECHVORRICHTUNG

Title (fr)
DISPOSITIF DE CONCASSAGE DE MATERIAUX

Publication
EP 1669137 A4 20061220 (EN)

Application
EP 04734467 A 20040521

Priority
• UA 2004000032 W 20040521
• UA 3087985 A 20030826

Abstract (en)
[origin: EP1669137A1] In a material milling device the mill chamber has a form of a cylinder, to the exterior of the lid thereof an aerodynamic turbine is connected. Inside of the mill chamber there is an aerodynamic classifier connected to the lid thereof. Thereby on the exterior side of the aerodynamic classifier there are vertical holes of definite shape made at a definite angle with respect to the airflow. Also inside of the mill chamber a coated ring is positioned. Thereby the device has at least one or more atomizers for pressurized air supply, which pass into openings of a nozzle of a definite shape provided on the ring. Thereby the atomizers are connected to the casing of the mill chamber at an angle with respect to a vertical axis and at an angle with respect to a cylindrical injector for supply of material and pressurized air. The proposed device provides for ultra-thin up to nanosizes milling of viscous and other materials.

IPC 8 full level
B02C 19/06 (2006.01); **B02C 23/14** (2006.01)

CPC (source: EP)
B02C 19/061 (2013.01); **B02C 23/14** (2013.01)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2005018811A1

Cited by
CN112892809A; WO2019043439A1; WO2024173980A1

Designated contracting state (EPC)
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