

Title (en)

DEVICE FOR THE MOTION-TOLERANT MATERIALLY ELASTIC COUPLING OF A GRINDING CHAMBER TO ECCENTRIC SHAFTS OF A VIBRATORY DISC MILL

Title (de)

VORRICHTUNG ZUM BEWEGUNGSTOLERANTEN MATERIALELASTISCHEN KOPPELN EINER MAHLKAMMER AN EXZENTERWELLEN EINER SCHWINGSCHLEIBENMÜHLE

Title (fr)

DISPOSITIF POUR ACCOUPLER, AVEC ÉLASTICITÉ DE MATÉRIAU DE MANIÈRE TOLÉRANTE AUX MOUVEMENTS, UNE CHAMBRE DE BROUAGE À DES ARBRES À EXCENTRIQUE D'UN BROEUR À DISQUES VIBRANTS

Publication

EP 3969181 A1 20220323 (DE)

Application

EP 20726364 A 20200513

Priority

- DE 102019207228 A 20190517
- EP 2020063349 W 20200513

Abstract (en)

[origin: WO2020234088A1] The invention relates to a vibratory disc mill device (10) for comminuting feed material, in particular feed material having a particle size of less than 20 mm, in particular designed to grind the feed material to particles sizes of less than 75 µm, comprising: - a mill housing (11); - a grinding system (13) which is arranged in the mill housing in such a way that the grinding system can vibrate, and which has a grinding chamber (13.1) and at least one grindstone which is movably arranged in the grinding chamber; - at least one eccentric shaft drive (14) which is mounted in the mill housing and produces the vibratory motion in the grinding chamber; - at least two eccentric shafts (15); - a compensating mass unit (13) which is connected to the eccentric shaft drive and is designed to compensate for unbalance; wherein the grinding chamber (13.1) is coupled to the eccentric shafts (15) by means of at least one materially resilient articulated-attachment unit (17). This also allows improved operating conditions. The invention also relates to the use of an articulated-attachment unit for the materially resilient mounting of the grinding system of the vibratory disc mill.

IPC 8 full level

B02C 17/14 (2006.01); **B02C 17/18** (2006.01); **B02C 17/24** (2006.01)

CPC (source: EP)

B02C 17/14 (2013.01); **B02C 17/18** (2013.01); **B02C 17/24** (2013.01)

Citation (search report)

See references of WO 2020234088A1

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)

DE 102019207228 A1 20201119; EP 3969181 A1 20220323; EP 3969181 B1 20230621; EP 3969181 C0 20230621; WO 2020234088 A1 20201126

DOCDB simple family (application)

DE 102019207228 A 20190517; EP 2020063349 W 20200513; EP 20726364 A 20200513