

Title (en)

STIRRING BALL MILL AND METHOD OF OPERATING A STIRRING BALL MILL

Title (de)

RÜHRWERKSKUGELMÜHLE UND VERFAHREN ZUM BETREIBEN EINER RÜHRWERKSKUGELMÜHLE

Title (fr)

BROYEUR À BILLES À AGITATEUR ET PROCÉDÉ DE FONCTIONNEMENT D'UN BROYEUR À BILLES À AGITATEUR

Publication

**EP 3297761 B1 20190515 (DE)**

Application

**EP 16714215 A 20160224**

Priority

- DE 102015107789 A 20150519
- DE 2016000079 W 20160224

Abstract (en)

[origin: WO2016184445A1] The invention relates to an agitator ball mill (1) having a cylindrical grinding container (2). At least one inlet for material to be ground is formed at a first end region of the grinding container (2) and at least one ground-material outlet is formed at an opposite end region of the grinding container. A separating device (12) is arranged upstream of the ground-material outlet. An agitating shaft (3) connected to a drive via a drive shaft (4) is arranged within the grinding container (2). On an outer lateral surface of the agitating shaft (3) there are formed pins (6) as agitating elements (5) which transmit the drive energy of the agitating shaft (3) at least partially to grinding bodies (MK) arranged loosely within the grinding container (2). The agitating shaft (3) is designed to be at least partially hollow cylindrical. An end of the agitating shaft opposite to the drive is at least partially open. An inner shaft (10) is formed in the hollow cylindrical interior (9) of the agitating shaft (3), wherein a first end of the inner shaft is fastened, within the hollow cylindrical interior (9) of the agitating shaft (3), coaxially to the drive shaft (4) and/or coaxially to the agitating shaft (3) and wherein the opposite second end of the inner shaft (10) projects out of the hollow cylindrical interior (9) of the agitating shaft (3). The separating device (12) is arranged on the projecting, second end (11) of the inner shaft (10). The invention further relates to a method for operating an agitator ball mill.

IPC 8 full level

**B02C 17/16** (2006.01)

CPC (source: EP)

**B02C 17/161** (2013.01); **B02C 17/163** (2013.01); **B02C 17/166** (2013.01)

Cited by

CN112439512A

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)

**DE 102015107789 B3 20160707**; EP 3297761 A1 20180328; EP 3297761 B1 20190515; WO 2016184445 A1 20161124

DOCDB simple family (application)

**DE 102015107789 A 20150519**; DE 2016000079 W 20160224; EP 16714215 A 20160224