

Title (en)

FIXING UNIT FOR AN AGITATOR BALL MILL, AGITATOR BALL MILL AND A METHOD FOR RELEASING A FIXING UNIT

Title (de)

BEFESTIGUNGSEINHEIT EINER RÜHRWERKSKUGELMÜHLE, RÜHRWERKSKUGELMÜHLE UND EIN VERFAHREN ZUM LÖSEN EINER BEFESTIGUNGSEINHEIT

Title (fr)

UNITÉ DE FIXATION D'UN BROYEUR À BILLES A AGITATEUR, BROYEUR À BILLES À AGITATEUR ET PROCÉDÉ POUR DESSERRER UNE UNITÉ DE FIXATION

Publication

EP 3085447 B1 20181024 (DE)

Application

EP 16000360 A 20160213

Priority

DE 102015105743 A 20150415

Abstract (en)

[origin: CN106040370A] The invention relates to a fixing unit for a stirred ball mill. The fixing unit includes a drive shaft of the stirred ball mill, a stirring shaft of the stirred ball mill, and a pull rod. A free end of the stirring shaft is arranged a first free end of the drive shaft in a shape fit or force fit manner, so that an effective connection is formed between the stirring shaft and the drive shaft. The drive shaft is a hollow shaft which has continuous hollow cavities along the along a longitudinal axis of the drive shaft. The pull rod is guided in the hollow cavities of the drive shaft, is provided with a first connection element at the first free end of the pull rod, and is provided with a top at the opposite position of the second free end, wherein the first connection element and the correspondingly arranged second connection element of the pull rod form a connection of the shape fit and the force fit at the free end arranged on the drive shaft of the stirring shaft. The top of the pull rod exceeds the second free end of the drive shaft at least locally. According to the invention, the pull rod can be fixed on the drive shaft by means of a flange. The invention further relates to the stirred ball mill and a method for releasing the fixing unit of the stirred ball mill.

IPC 8 full level

B02C 17/16 (2006.01); **B02C 17/18** (2006.01); **B02C 17/24** (2006.01)

CPC (source: CN EP)

B02C 17/16 (2013.01 - CN EP); **B02C 17/163** (2013.01 - CN EP); **B02C 17/18** (2013.01 - CN EP); **B02C 17/24** (2013.01 - EP)

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)

EP 3085447 A1 20161026; **EP 3085447 B1 20181024**; BR 102016005552 A2 20161025; BR 102016005552 B1 20210525; CN 106040370 A 20161026; CN 106040370 B 20180529; DE 102015105743 A1 20161020; PL 3085447 T3 20190628

DOCDB simple family (application)

EP 16000360 A 20160213; BR 102016005552 A 20160314; CN 201510726737 A 20151030; DE 102015105743 A 20150415; PL 16000360 T 20160213