

Title (en)
BALL MILL HAVING A TWO-POINT BEARING

Title (de)
KUGELMÜHLE MIT ZWEIPUNKTLAGERUNG

Title (fr)
BROYEUR A BOULETS AVEC MONTAGE EN DEUX POINTS

Publication
EP 1945363 B1 20160706 (DE)

Application
EP 06806053 A 20061005

Priority

- EP 2006009641 W 20061005
- DE 202005015897 U 20051007
- DE 202006007800 U 20060513
- DE 202006007801 U 20060513

Abstract (en)
[origin: WO2007042201A2] The aim of the invention is to produce a compact ball mill wherein the mechanical stresses of the milling product is not defined by the structure and the operational parameters can be selected in an wide area. The invention also relates to a ball mill, in particular, a planetary and centrifugal force ball mill, having a size adapted to the laboratory, comprising a housing, a support device (1) which is rotationally mounted about the central axis (15) on the housing, at least one receiving device (2) for at least one milling vessel (5) which is rotationally mounted about a receiving axis (25) in relation to the support device (1) and is guided thereby about the central axis (15), a drive (17) for the support device, a drive (27) for the receiving device, at least one milling vessel (5) which can be filled with milling balls and which comprises a milling cup and a cover for closing the milling cup in a detachable manner. The milling vessel is maintained in the receiving device (2) when it is installed therein, and comprises first and second bearing devices (31, 32) which are used to rotationally mount the receiving device (2) on the support device (1). Said bearing devices (31, 32) are arranged at a distance from each other in an axial manner, such that the centre of gravity of the milling vessel (5) is between the bearing devices (31, 32), and the support device (1) comprises a cover disk (4) wherein one of the bearing devices (31, 32) is lowered.

IPC 8 full level
B02C 7/08 (2006.01)

CPC (source: EP)
B02C 17/08 (2013.01); **B02C 17/181** (2013.01); **B02C 17/1815** (2013.01); **B02C 17/182** (2013.01)

Cited by
DE102012007530B4; DE102012009983A1; DE102012009985A1; DE102012009984A1; DE102012009982A1; DE102012007530A1;
DE102012009987A1; DE102012009987B4

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 2007042201 A2 20070419; WO 2007042201 A3 20070719; EP 1945363 A2 20080723; EP 1945363 B1 20160706

DOCDB simple family (application)
EP 2006009641 W 20061005; EP 06806053 A 20061005