

Title (en)  
PLANETARY MILL OF DISCRETE ACTION.

Title (de)  
PLANETENMAHLWERK MIT DISKRETEM ARBEITSGANG.

Title (fr)  
BROYEUR PLANETAIRE A ACTION DISCONTINUE.

Publication  
**EP 0343249 A1 19891129 (DE)**

Application  
**EP 88907870 A 19880819**

Priority  
SU 4296981 A 19870820

Abstract (en)  
[origin: WO8901363A1] A planetary mill of discrete action comprises a casing (1) with a cap (3), inside which is mounted a planetary carrier (18) connected to an electric drive and carrying rotatable drums (27) provided with caps and filled with grinding bodies (64). A rigid ring (10) mounted in the casing (1) coaxially to the planetary carrier (18) embraces the drums (27), which are pressed against the rigid ring (10) by means of force elements mounted on the planetary carrier (18). A rotatable cantilever crane (9) mounted on a frame (2) carries a power cylinder (7) mounted coaxially to the axis of the mill, the rod (6) of which is rigidly connected to the cap (3) of the casing (1). An axle (31) is mounted on the inner side of the cap (3) and carries a lower and an upper disk (33, 43). The lower disk (33) is mounted to rotate together with the caps of the drums (27). The upper disk (43) is provided with spring-loaded fingers (45) and is mounted with the possibility of axial movement in relation to the lower disk (33). Power cylinders (46) mounted on the cap (3) of the casing (1) co-operate with the upper disk (43) at the moment of lifting the cap (3) of the casing (1) by means of the power cylinder (7) of the rotatable cantilever crane (9).

Abstract (de)  
A planetary mill of discrete action comprises a casing (1) with a cap (3), inside which is mounted a planetary carrier (18) connected to an electric drive and carrying rotatable drums (27) provided with caps and filled with grinding bodies (64). A rigid ring (10) mounted in the casing (1) coaxially to the planetary carrier (18) embraces the drums (27), which are pressed against the rigid ring (10) by means of force elements mounted on the planetary carrier (18). A rotatable cantilever crane (9) mounted on the frame (2) carries a power cylinder (7) mounted coaxially to the axis of the mill, the rod (6) of which is rigidly connected to the cap (3) of the casing (1). An axle (31) is mounted on the inner side of the cap (3) and carries a lower and an upper disk (33, 43). The lower disk (33) is mounted to rotate together with the caps of the drums (27). The upper disk (43) is provided with spring-loaded fingers (45) and is mounted with the possibility of axial movement in relation to the lower disk (33). Power cylinders (46) mounted on the cap (3) of the casing (1) co-operate with the upper disk (43) at the moment of lifting the cap (3) of the casing (1) by means of the power cylinder (7) of the rotatable cantilever crane (9).

Abstract (fr)  
Un broyeur planétaire à action discontinue comprend un carter (1) muni d'un capot (3), à l'intérieur duquel est montée une roue intermédiaire planétaire (18) reliée à un entraînement électrique et portant des tambours rotatifs (27) munis de capots et renfermant des organes de broyage (64). Un anneau rigide (10) monté dans le carter (1) coaxialement à la roue intermédiaire planétaire (18) englobe les tambours (27) qui sont pressés contre ledit anneau rigide (10) au moyen d'éléments de force montés sur la roue intermédiaire planétaire (18). Un portique rotatif à console (9) monté sur un bâti (2) porte un vérin monté coaxialement à l'axe du broyeur, dont la bielle (6) est reliée de manière rigide au capot (3) du carter (1). Un axe (31) est monté sur la face intérieure du capot (3) et porte un disque inférieur et supérieur (33, 43). Le disque inférieur (33) est monté pour tourner de concert avec les capots des tambours (27). Le disque supérieur (43) est pourvu de doigts à ressort (45) et est monté avec la possibilité d'un mouvement axial par rapport au disque inférieur (33). Des vérins (46) montés sur le capot (3) du carter (1) coopèrent avec le disque supérieur (43) lors de l'élévation du capot (3) du carter (1) au moyen du vérin (7) du portique rotatif à console (9).

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