

Title (en)  
AGITATING MILL

Title (de)  
RÜHRWERKSMÜHLE

Title (fr)  
BROYEUR AGITATEUR

Publication  
**EP 4243989 A1 20230920 (DE)**

Application  
**EP 21839325 A 20211028**

Priority  
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• DE 2021000175 W 20211028

Abstract (en)  
[origin: WO2022100772A1] The invention relates to an agitating mill (1), in particular to an stirred ball mill, having a grinding container (2) in which an agitator shaft (3) which preferably bears agitating elements (8) revolves in such a way that a grinding space (7) is formed between the agitator shaft (3) and the grinding container (2), into which grinding space the grinding stock, which is conveyed via a free-flowing carrier substance, usually in the form of a suspension, is fed, wherein the grinding space (7) is in part filled with grinding elements which are set into motion by the revolving agitator shaft (3), and the grinding stock which is carried via a free-flowing carrier substance through the grinding space (7) is comminuted as a result, wherein the grinding stock conveyed via the free-flowing carrier substance is discharged, together with the carrier substance, through a screen (4) which holds back grinding elements reaching the area of the screen (4), characterised in that the screen (4) consists of a plurality of screen elements (12) which are arranged one behind the other along the longitudinal axis of the stirred ball mill (1), through which screen elements a flow passes in parallel, and the large areas of which screen elements, against which large areas the flow flows from the grinding space (7), extend obliquely or radially with respect to the axis about which the agitator shaft (3) revolves.

IPC 8 full level  
**B02C 17/16** (2006.01)

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