

Title (en)
STIRRING MILL

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Application
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Abstract (en)
[origin: US5062577A] PCT No. PCT/EP88/00408 Sec. 371 Date Nov. 6, 1989 Sec. 102(e) Date Nov. 6, 1989 PCT Filed May 10, 1988 PCT Pub. No. WO88/09212 PCT Pub. Date Dec. 1, 1988. An agitator mill for the treatment of flowable grinding stock has a grinding receptacle (3) with a mostly closed grinding chamber (9) and a rotatably drivable agitator element (21) disposed therein. An interior stator (24) is disposed in the agitator element. A grinding stock supply chamber (53) is placed ahead of the grinding chamber. On the same side of the grinding receptacle (3) a separator device (34) is provided through which the grinding stock is discharged again after treatment. In order to prevent to a large extent wear on the separator device (34) and, at the same time, to achieve as even as possible a distribution of the grinding bodies in the grinding chamber (9), the agitator element (21) is designed approximately cup-shaped and disposed between the interior stator (24) and the wall of the grinding receptacle (3) with the formation of an exterior grinding chamber (9') and an interior grinding chamber (9''). The grinding stock supply chamber (53) is placed ahead of the exterior grinding chamber (9') and the separator device (34) is placed behind the interior grinding chamber (9''). The interior grinding chamber (9'') is connected by bypasses (60), placed ahead of the separator device (34), with the exterior grinding chamber (9') for the purpose of returning the auxiliary grinding bodies (41).

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Cited by
WO2016184445A1; DE10110652B4; DE10241924B3; DE19819967B4; DE19834397B4; DE102015107789B3; EP0913200A1; EP1238707A2; EP0700723A1; EP1992412A1; EP4032615A1; DE102021101527A1; DE102021101527B4

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US 43904889 A 19891106; AT 88904510 T 19880510; AU 1792088 A 19880510; BR 8807508 A 19880510; CA 566593 A 19880512; CN 88102957 A 19880516; DE 3716587 A 19870518; DE 3876628 T 19880510; DK 579789 A 19891117; EP 8800408 W 19880510; EP 88904510 A 19880510; ES 8801543 A 19880517; IN 335CA1988 A 19880426; JP 50445088 A 19880510; KR 890700085 A 19890117; MX 1140088 A 19880506; SU 4742442 A 19891117; UA 4742442 A 19880510; ZA 883012 A 19880427