

Title (en)  
IMPROVED CONTINUOUS CENTRIFUGAL MACHINE

Publication  
**EP 0167180 A3 19880323 (EN)**

Application  
**EP 85109943 A 19810121**

Priority  
• US 11374580 A 19800121  
• US 11398080 A 19800121

Abstract (en)  
[origin: EP0167180A2] In a continuous centrifugal machine including an upwardly open frusto-conical centrifugal basket (12) secured to the upper end of a shaft (14) journaled for rotation on bearings in a bearing housing (16), a surrounding curb wall (38), buffering assemblies (40) resiliently mounting the bearing housing, and a drive motor (44) connected through pulleys (50, 82) and a belt (88) with the lower end of the shaft (14), the driven belt pulley (82) is fixed below the basket shaft (14) and connected with it through a stub shaft (84) and a flexible coupling (86) that permits angular and parallel misalignments of the shafts. An adjustable mounting arrangement for the driven pulley (82) enables adaptation of the stub shaft position to variations of the set position of the basket shaft. The belt (88) extends through a radial tunnel (41) superposed by a stationary liquid delivery tunnel (43) of the base structure of the machine, for minimal obstruction of the solids delivery space (28) inside the curb wall. The base structure includes a radial support ring (36) which is spaced inside the curb wall and supports an annular chambering unit (160) that comprises a radial annular base wall (62) and partitions (166, 172, 178) which form a liquid collecting chamber (26) outside the side wall of the basket. The buffering assemblies (40) are joined to the base wall (62) so that these assemblies and the chambering unit (160), with the bearing housing and the basket joined to them, can be preassembled as a unit and placed and fastened together on the support ring.

IPC 1-7  
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IPC 8 full level  
**B04B 7/04** (2006.01); **B04B 9/08** (2006.01); **B04B 9/12** (2006.01)

CPC (source: EP US)  
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**EP 0167180 A2 19860108**; **EP 0167180 A3 19880323**; **EP 0167180 B1 19900718**; AR 223754 A1 19810915; AU 536010 B2 19840412; AU 6628281 A 19810730; BR 8106034 A 19811124; DE 3177201 D1 19900823; EP 0044337 A1 19820127; EP 0044337 A4 19840316; EP 0044337 B1 19860903; IT 1135078 B 19860820; IT 8119200 A0 19810119; JP S56501840 A 19811217; JP S5844420 B2 19831003; MX 151921 A 19850503; WO 8102114 A1 19810806

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**EP 85109943 A 19810121**; AR 28402681 A 19810121; AU 6628281 A 19810116; BR 8106034 A 19810121; DE 3177201 T 19810121; EP 81900473 A 19810121; IT 1920081 A 19810119; JP 50073181 A 19810121; MX 18564281 A 19810121; US 8100072 W 19810121