

Title (en)
Disposable, self-driven centrifuge rotor

Title (de)
Selbstgetriebener Wegwerfrotor für Zentrifuge

Title (fr)
Rotor jetable à entraînement automatique pour centrifugeuse

Publication
EP 1066884 B1 20050622 (EN)

Application
EP 00305657 A 20000705

Priority
US 34852299 A 19990707

Abstract (en)
[origin: EP1066884A2] A disposable, cone-stack, self-driven centrifuge rotor assembly (20) for separating particulate matter out of a circulating flow of oil includes first and second rotor shell portions (22 and 23) which are injection molded out of plastic and joined together by ultrasonically welding engaging edges (26 and 27) so as to create an enclosing shell with a hollow interior. An injection molded, plastic support hub (25) is assembled into a central opening in the lower half (23) of the rotor shell and extends upwardly into the hollow interior. An injection molded, plastic bearing/alignment spool (24) is assembled into a central opening in the upper portion (22) of the rotor shell and extends downwardly into the hollow interior. A cone-stack subassembly (21), including a plurality of individual separation cones which are injection molded out of plastic, are arranged into an aligned stack and positioned within the hollow interior and cooperatively assembled between the support hub (25) and the bearing/alignment spool (24). The all plastic construction for the centrifuge rotor assembly (20) allows the entire assembly (20) to be disposed of without any disassembly required.
<IMAGE>

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B04B 7/08; B04B 1/08; B04B 5/00

IPC 8 full level
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CPC (source: EP)
B04B 1/08 (2013.01); **B04B 5/005** (2013.01); **B04B 7/08** (2013.01); **B04B 7/14** (2013.01)

Cited by
EP1949965A1; DE10111381A1; EP1685908A1; EP1214982A3; DE202005020012U1; DE10333058A1; EP1340547A3; DE10333058B4; US7959546B2; US8574144B2

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