

Title (en)
Centrifugal pump with magnetic coupling

Title (de)
Kreispumpe mit Magnetkupplung

Title (fr)
Pompe centrifuge à accouplement magnétique

Publication
EP 1158174 A3 20050907 (DE)

Application
EP 01108334 A 20010403

Priority
DE 10024953 A 20000522

Abstract (en)
[origin: US2001043865A1] A pump has a housing plate having a front face and a back face, a housing can fixed to the plate and defining a chamber on the back face thereof, a bearing sleeve in the can fixed to the plate and extending rearward from the back face thereof along an axis, and a rotor shaft extending axially through the sleeve and having a front end and a rear end. Bearings support the rotor shaft in the sleeve for rotation therein about the axis. The shaft has an outer surface spaced a predetermined inner radial distance from an inside surface of the bearing sleeve. An impeller is carried on the rotor-shaft front end in a pump chamber at the front face of the housing plate. A rotor body fixed to the shaft rear end extends axially forward in the can around the bearing sleeve. The rotor body has an outer surface spaced a predetermined outer radial distance from an inside surface of the can. The inner radial dimension is substantially smaller than the outer radial dimension.

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F04D 13/026 (2013.01 - EP US); **F04D 29/0413** (2013.01 - EP US); **F04D 29/0465** (2013.01 - EP US); **F04D 29/047** (2013.01 - EP US)

Citation (search report)

- [A] EP 0398175 A1 19901122 - RHEINHUETTE GMBH & CO [DE]
- [A] DE 3715484 A1 19881117 - KLAUS UNION ARMATUREN [DE]
- [A] US 5944489 A 19990831 - VAUGHN PAUL E [US], et al
- [A] GB 922319 A 19630327 - KLAUS FRANZ
- [A] DE 9316897 U1 19940728 - RENNER GMBH [DE]

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EP 1158174 A2 20011128; **EP 1158174 A3 20050907**; **EP 1158174 B1 20070314**; AT E356937 T1 20070415; AT E486219 T1 20101115; DE 10024953 A1 20011129; DE 50112181 D1 20070426; DE 50115684 D1 20101209; EP 1719914 A2 20061108; EP 1719914 A3 20061115; EP 1719914 B1 20101027; US 2001043865 A1 20011122; US 6554576 B2 20030429

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