

Title (en)
Centrifugal pump with magnetic coupling

Title (de)
Kreiselpumpe mit Magnetkupplung

Title (fr)
Pompe centrifuge à accouplement magnétique

Publication
EP 1158173 B1 20060705 (DE)

Application
EP 01100290 A 20010104

Priority
DE 10024955 A 20000522

Abstract (en)
[origin: US2001043871A1] A pump has a housing plate, a housing can fixed to the plate and defining a chamber on a back face thereof, a bearing sleeve in the can fixed to the plate and extending rearward from the back face along an axis, and a rotor shaft extending axially through the sleeve. Bearings support the rotor shaft in the sleeve and an impeller is carried on the rotor-shaft front end. A rotor body fixed to the shaft rear end extends axially forward in the can around the bearing sleeve. The rotor body defines an annular space around the bearing sleeve and is formed with at least one axially throughgoing passage open axially forward into the space and axially rearward into the can. A vane in the passage is angled for pumping liquid from inside the can axially forward into the space on rotation of the rotor about the axis.

IPC 8 full level
F04D 13/02 (2006.01)

CPC (source: EP US)
F04D 13/026 (2013.01 - EP US); **F04D 13/027** (2013.01 - EP US)

Cited by
CN103573682A; CN102146928A

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EP 1158173 A2 20011128; EP 1158173 A3 20040310; EP 1158173 B1 20060705; AT E332444 T1 20060715; DE 10024955 A1 20011129; DE 50110376 D1 20060817; US 2001043871 A1 20011122; US 6457951 B2 20021001

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