

Title (en)

POWER DRIVEN DEVICE WITH CENTRIFUGAL FLUID CIRCULATION, SUCH AS A MOTOR PUMP OR A MOTOR COMPRESSOR

Title (de)

MOTORBETRIEBENE VORRICHTUNG FÜR ZENTRIFUGALFLÜSSIGKEITSUMLAUF, WIE EINE MOTORPUMPE ODER KOMPRESSOR

Title (fr)

DISPOSITIF MOTORISE A CIRCULATION CENTRIFUGE DE FLUIDE, TEL QU'UNE MOTOPOMPE OU UN MOTOCOMPRESSEUR

Publication

EP 1147318 A1 20011024 (FR)

Application

EP 99961136 A 19991221

Priority

- FR 9903241 W 19991221
- FR 9816265 A 19981222

Abstract (en)

[origin: WO0037804A1] The invention concerns a device comprising a sealed body (2) and at least a wheel (10) mounted rotating in the sealed body (2), about a fixed axis of rotation (3) comprising at least a fluid intake (4) in its central part and a plurality of channels (13) circulating the fluid in a substantially radial direction between the central fluid intake (4) and the wheel (10) periphery, and an electric motor driving the wheel. The motor rotor is integral with the wheel (10) and arranged opposite at least one stator (17) element fixed in the body (2) of the device (1). The wheel (10) bears, on at least a lateral surface opposite a part of the sealed body (2), at least a magnetic element (18c) located opposite a corresponding magnetic element (18a, 18b) integral with the sealed body (2) to form an axial magnetic stop. The invention is applicable in particular to a motor pump or a motor compressor for a toxic fluid.

IPC 1-7

F04D 13/06; F04D 13/14; F04D 1/06; F04D 25/06; F04D 29/04

IPC 8 full level

F04D 1/06 (2006.01); **F04D 13/06** (2006.01); **F04D 13/14** (2006.01); **F04D 25/06** (2006.01)

CPC (source: EP)

F04D 1/006 (2013.01); **F04D 1/06** (2013.01); **F04D 13/0666** (2013.01); **F04D 13/14** (2013.01); **F04D 17/12** (2013.01); **F04D 25/0653** (2013.01); **F04D 29/041** (2013.01); **F04D 29/0416** (2013.01); **F04D 29/051** (2013.01)

Citation (search report)

See references of WO 0037804A1

Cited by

EP4328453A1; EP4328454A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0037804 A1 20000629; AT E253689 T1 20031115; AU 1785000 A 20000712; DE 69912644 D1 20031211; EP 1147318 A1 20011024; EP 1147318 B1 20031105; FR 2787527 A1 20000623; FR 2787527 B1 20010309

DOCDB simple family (application)

FR 9903241 W 19991221; AT 99961136 T 19991221; AU 1785000 A 19991221; DE 69912644 T 19991221; EP 99961136 A 19991221; FR 9816265 A 19981222