

Title (en)
ARRANGEMENT FOR CONVEYING FLUIDS

Title (de)
ANORDNUNG ZUR FÖRDERUNG VON FLUIDEN

Title (fr)
DISPOSITIF DE TRANSPORT DE FLUIDES

Publication
EP 1716338 B1 20070711 (DE)

Application
EP 05797198 A 20050930

Priority
• EP 2005010565 W 20050930
• DE 202004018753 U 20041123

Abstract (en)
[origin: WO2006056262A1] Disclosed is an arrangement for conveying fluids, comprising a fluid pump (174) with a rotatably mounted impeller (172) that is connected to a first permanent magnet (186). Said arrangement further comprises an electronically commutated inner rotor motor (152) with a stator (154) and a rotor (156) as well as a shaft (160) that is assigned to the rotor (156) and is rotatably mounted relative to the stator (154). The inventive arrangement also comprises a second permanent magnet (184) which is connected to the rotor (156) in a torsion-proof manner and cooperates with the first permanent magnet (186) like a magnetic clutch, and a split pot (170, 180, 188) that fluid-tightly separates the first permanent magnet (186) located within said split pot from the second permanent magnet (184) located outside the split pot. One of the bearings (164) of the rotor (156) shaft is disposed outside on the split pot. A support system (204) for another bearing (162) of said shaft (160) is joined to the stator (154). A fan wheel (218) is connected in a torsion-proof fashion to a final area (214) of the shaft (160) that faces away from the split pot.

IPC 8 full level
F04D 13/02 (2006.01); **F04D 13/12** (2006.01); **F04D 25/16** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP US)
F04D 13/026 (2013.01 - EP US); **F04D 13/027** (2013.01 - EP US); **F04D 13/12** (2013.01 - EP US); **F04D 25/16** (2013.01 - EP US)

Cited by
US11757330B2; US11437900B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006056262 A1 20060601; AT E366876 T1 20070815; DE 502005001019 D1 20070823; EP 1716338 A1 20061102; EP 1716338 B1 20070711; ES 2287915 T3 20071216; US 2008061638 A1 20080313; US 7582997 B2 20090901

DOCDB simple family (application)
EP 2005010565 W 20050930; AT 05797198 T 20050930; DE 502005001019 T 20050930; EP 05797198 A 20050930; ES 05797198 T 20050930; US 57067905 A 20050930