

Title (en)
Centrifugal pump

Title (de)
Kreiselpumpe

Title (fr)
Pompe centrifuge

Publication
EP 1277965 B1 20161102 (EN)

Application
EP 02250460 A 20020123

Priority
BR 0103034 A 20010716

Abstract (en)
[origin: EP1277965A2] The present invention comprises a pump (10) having a casing (14) with at least one first hermetically sealed chamber (19) and at least one second chamber (17) adjacent to said first chamber, defining a passageway (18) for fluids and having an inlet (15) and an outlet (16) for the fluids. The stator (12) is provided in this first chamber (19). In addition, a rotor-turbine assembly (11) is induced by the stator (12) to drive a fluid from the inlet (15) to the outlet (16), the rotor and the turbine being integral and wholly located in the second chamber (17). <IMAGE>

IPC 8 full level

F04D 13/02 (2006.01); **F04D 13/06** (2006.01); **F04D 29/02** (2006.01); **F04D 29/043** (2006.01); **F04D 29/22** (2006.01); **F04D 29/42** (2006.01);
F04D 29/44 (2006.01); **F04D 29/58** (2006.01); **F04D 29/70** (2006.01)

CPC (source: EP US)
F04D 13/0646 (2013.01 - EP US); **F04D 29/5806** (2013.01 - EP); **F04D 29/708** (2013.01 - EP US)

Citation (examination)
GB 485225 A 19380517 - HANS MOSER, et al

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1277965 A2 20030122; EP 1277965 A3 20040804; EP 1277965 B1 20161102; AR 030789 A1 20030903; AT E491886 T1 20110115;
AU 2002300182 B2 20080110; AU 2003200128 A1 20040401; AU 2003200128 B2 20090716; BR 0103034 A 20030729;
BR 0103034 B1 20090505; BR 0103034 C1 20031104; CA 2393243 A1 20030116; CA 2393243 C 20081014; CA 2416085 A1 20040316;
DE 60335328 D1 20110127; DK 1398508 T3 20110328; EP 1398508 A2 20040317; EP 1398508 A3 20040901; EP 1398508 B1 20101215;
ES 2358012 T3 20110504; ES 2612908 T3 20170519; HK 1063498 A1 20041231; JP 2003097482 A 20030403; JP 2004108353 A 20040408;
JP 4180853 B2 20081112; MX PA02006940 A 20041213; MX PA03000417 A 20041209; PT 1277965 T 20170213; PT 1398508 E 20110315;
US 2003012648 A1 20030116

DOCDB simple family (application)

EP 02250460 A 20020123; AR P010104469 A 20010921; AT 03250048 T 20030103; AU 2002300182 A 20020716; AU 2003200128 A 20030116;
BR 0103034 A 20010716; CA 2393243 A 20020712; CA 2416085 A 20030113; DE 60335328 T 20030103; DK 03250048 T 20030103;
EP 03250048 A 20030103; ES 02250460 T 20020123; ES 03250048 T 20030103; HK 04106267 A 20040821; JP 2002207243 A 20020716;
JP 2003017404 A 20030127; MX PA02006940 A 20020715; MX PA03000417 A 20030114; PT 02250460 T 20020123; PT 03250048 T 20030103;
US 5003302 A 20020117