

Title (en)  
ROTATING PISTON MACHINE WITH THREE-BLADE ROTORS

Title (de)  
DREHKOLBENMASCHINE MIT DREIFLÜGELIGEN ROTOREN

Title (fr)  
MACHINE A PISTONS ROTATIFS COMPORTANT DES ROTORS A TROIS AILETTES

Publication  
**EP 1076760 B1 20030702 (DE)**

Application  
**EP 99948559 A 19990428**

Priority  
• DE 19819538 A 19980430  
• EP 9902881 W 19990428

Abstract (en)  
[origin: DE19819538A1] The aim of the invention is to provide a means of producing pressure and negative pressure simultaneously with a single-stage pump. To this end, said pump has a pump chamber (18) which is formed in a housing and which is provided with a vacuum connection, a pressure connection and a loading connection. At least two three-blade rotors (30, 32) are arranged in the pump chamber (18). These rotors (30, 32) rotate in opposite directions about parallel axes which are offset from one another, intermesh without touching and together with the peripheral wall of the pump chamber (18), also form cells (60, 62a, 62b,64) which are separate from another.

IPC 1-7  
**F01C 1/12**; **F04C 18/12**; **F04C 29/08**

IPC 8 full level  
**F01C 1/12** (2006.01); **F04C 18/12** (2006.01); **F04C 18/20** (2006.01); **F04C 29/00** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP KR US)  
**F01C 1/12** (2013.01 - KR); **F04C 18/123** (2013.01 - EP US); **F04C 29/122** (2013.01 - EP US)

Designated contracting state (EPC)  
CH DE FR GB IT LI SE

DOCDB simple family (publication)  
**DE 19819538 A1 19991111**; **DE 19819538 C2 20000217**; CN 1105820 C 20030416; CN 1128935 C 20031126; CN 1299434 A 20010613; CN 1299444 A 20010613; DE 59902761 D1 20021024; DE 59906193 D1 20030807; EP 1075601 A1 20010214; EP 1075601 B1 20020918; EP 1076760 A1 20010221; EP 1076760 B1 20030702; JP 2002513880 A 20020514; JP 2002513887 A 20020514; KR 100556077 B1 20060307; KR 100608527 B1 20060809; KR 20010043093 A 20010525; KR 20010043094 A 20010525; US 6364642 B1 20020402; US 6439865 B1 20020827; WO 9957419 A1 19991111; WO 9957439 A1 19991111

DOCDB simple family (application)  
**DE 19819538 A 19980430**; CN 99805636 A 19990428; CN 99805637 A 19990428; DE 59902761 T 19990428; DE 59906193 T 19990428; EP 9902881 W 19990428; EP 9902882 W 19990428; EP 99923485 A 19990428; EP 99948559 A 19990428; JP 2000547347 A 19990428; JP 2000547364 A 19990428; KR 20007011977 A 20001027; KR 20007011978 A 20001027; US 67364001 A 20010105; US 67364100 A 20001221