

Title (en)  
A PUMP

Title (de)  
PUMPE

Title (fr)  
POMPE

Publication  
**EP 1332287 B1 20090527 (EN)**

Application  
**EP 01979202 A 20011101**

Priority  
• SE 0102400 W 20011101  
• SE 0004085 A 20001108

Abstract (en)  
[origin: WO0238957A1] A pump includes a pump housing (10, 11, 20) that has a circular-cylindrical piston chamber (14), a rotatable and axially movable circular-cylindrical pump piston (40) in said chamber, means (30, 43) for rotationally driving the piston in the chamber, and means (11, 41; 13, 42; 67, 68) for imparting to the piston guided axially reciprocating movement in the piston chamber through the medium of piston rotation, wherein the pump includes lines and valve means for permitting one-way suction and one-way propulsion of pump fluid respectively into and out of the pump chambers between the ends of the piston chamber and the respective adjacent end of the piston. The means for imparting axial reciprocating movement to the piston are adapted to cause the piston to move axially at a constant speed at a constant rotational speed of the piston, at least during the expulsion of pump fluid.

IPC 8 full level  
**F04B 7/06** (2006.01); **F04C 9/00** (2006.01)

CPC (source: EP US)  
**F04C 9/007** (2013.01 - EP US)

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)  
**WO 0238957 A1 20020516**; AT E432417 T1 20090615; AU 1118702 A 20020521; DE 60138826 D1 20090709; EP 1332287 A1 20030806; EP 1332287 B1 20090527; JP 2004513299 A 20040430; SE 0004085 D0 20001108; SE 0004085 L 20020509; SE 522138 C2 20040113; US 2004101426 A1 20040527

DOCDB simple family (application)  
**SE 0102400 W 20011101**; AT 01979202 T 20011101; AU 1118702 A 20011101; DE 60138826 T 20011101; EP 01979202 A 20011101; JP 2002541253 A 20011101; SE 0004085 A 20001108; US 41565503 A 20030507