

Title (en)  
PUMP

Title (de)  
PUMPE

Title (fr)  
POMPE

Publication  
**EP 1108144 A1 20010620 (DE)**

Application  
**EP 99952381 A 19990813**

Priority  
• DE 9902529 W 19990813  
• DE 29823902 U 19980813  
• DE 29823903 U 19980813

Abstract (en)  
[origin: WO0009888A2] The invention relates to a pump for delivering a fluid, especially a vane-cell pump, comprising a delivery device which is accommodated in a casing (2), a casing cover (3) located on the face, and optionally comprising a bearing flange (4) which is joined to the casing (2) on the side opposite said casing cover (3). A seal (5, 6) is arranged between the casing (2) and the casing cover (3) and is optionally arranged between the casing (2) and the bearing flange (4). In addition, the seal (5, 6) is inserted in a groove (8, 9) which is constructed in the casing cover (3) and which is optionally constructed in the bearing flange (4) and/or in the corresponding front face (7) of the casing (2). A leakage path (13) for the fluid extends between the delivery side (11) and the suction side (12). According to the invention, oil leakage located on the delivery side is effectively carried away while procedures relating to the construction or manufacturing techniques of the pump are reduced. The invention is characterized in that the leakage path (13) runs at least parallel, in areas, with regard to the seal (5, 6) on the seal inner side (14) - media side.

IPC 1-7  
**F04C 21/00**

IPC 8 full level  
**B62D 5/07** (2006.01); **F04C 2/344** (2006.01); **F04C 15/00** (2006.01); **F04C 15/06** (2006.01); **F04C 21/00** (2006.01); **F04F 5/46** (2006.01)

IPC 8 main group level  
**F04C** (2006.01)

CPC (source: EP US)  
**F04C 15/0046** (2013.01 - EP US); **F04C 15/062** (2013.01 - EP US)

Designated contracting state (EPC)  
FR GB IT

DOCDB simple family (publication)  
**WO 0009888 A2 20000224**; **WO 0009888 A3 20010111**; DE 19981557 B4 20151029; DE 19981557 D2 20010712; EP 1108144 A1 20010620; EP 1323926 A2 20030702; EP 1323926 A3 20030910; EP 1323926 B1 20080924; JP 2002522707 A 20020723; JP 2010101322 A 20100506; JP 5140059 B2 20130206; US 2002110459 A1 20020815; US 6413064 B1 20020702

DOCDB simple family (application)  
**DE 9902529 W 19990813**; DE 19981557 T 19990813; EP 03005717 A 19990813; EP 99952381 A 19990813; JP 2000565301 A 19990813; JP 2009265895 A 20091124; US 12525102 A 20020418; US 76278901 A 20010213