

Title (en)  
TURBOMOLECULAR PUMP

Publication  
**EP 0348931 B1 19911030 (FR)**

Application  
**EP 89111755 A 19890628**

Priority  
FR 8808738 A 19880629

Abstract (en)  
[origin: EP0348931A1] Turbomolecular pump comprising a rotor (40) and a stator (1, 42), the rotor being supported in the stator by bearings (3, 4), the stator (1, 42), in its part carrying the said bearings being pierced with a bore (6) equipped with a piston (13) delimiting with the said bore chambers (16, 17) forming grease reserves, at least one radial channel (9, 10) extending from each of these chambers, the said piston (13) possessing towards its outer end, means (14) for allowing it to penetrate into the said bore (6), characterised in that each channel (9, 10) terminates opposite a threaded cylindrical bearing surface (31, 32) integral with the rotor (40) and immediately adjacent to a supporting bearing (3, 4) of the rotor, bringing the grease axially to the said bearing along a circular ring, the said piston (13) being equipped with a gasket (25) located between the chambers (16, 17) and its outer end (26), the said means making it possible for the piston to penetrate into the bore comprising a drive means (20) activated periodically. <IMAGE>

IPC 1-7  
**F04D 19/04; F04D 29/06**

IPC 8 full level  
**F04D 29/063** (2006.01); **F04D 19/04** (2006.01); **F04D 29/06** (2006.01)

CPC (source: EP)  
**F04D 19/042** (2013.01); **F04D 29/063** (2013.01)

Cited by  
EP2728195A3; WO2006111695A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0348931 A1 19900103; EP 0348931 B1 19911030**; AT E69088 T1 19911115; DE 68900380 D1 19911205; FI 893103 A0 19890626; FI 893103 A 19891230; FR 2633675 A1 19900105; FR 2633675 B1 19910215; JP H0278798 A 19900319

DOCDB simple family (application)  
**EP 89111755 A 19890628**; AT 89111755 T 19890628; DE 68900380 T 19890628; FI 893103 A 19890626; FR 8808738 A 19880629; JP 16362489 A 19890626