

Title (en)
MONOBLOC HOUSING FOR VACUUM PUMP

Title (de)
EINTEILIGES GEHÄUSE FÜR EINE VAKUUMPUMPE

Title (fr)
CARTER MONOBLOC POUR POMPE A VIDE

Publication
EP 1301712 B1 20090225 (FR)

Application
EP 01958136 A 20010717

Priority
• FR 0102314 W 20010717
• FR 0009401 A 20000718

Abstract (en)
[origin: WO0206675A2] The invention concerns a pumping unit wherein the vacuum pump (100) is driven by a motor (3, 4) comprised in a common monobloc housing forming motor housing (5) and oil pan (18) containing a gear assembly (17) for coupling two parallel pump rotors (14). To complement the sealing conditions provided by a dynamic seal (6), the motor stator (4) consists of an electric coil embedded in an oil-tight and gas-tight resin, thereby not requiring other more expensive and bulky sealing means, reducing production cost and enhancing the pumping unit dependability.

IPC 8 full level
F04C 2/00 (2006.01); **F04D 29/08** (2006.01); **F01C 21/10** (2006.01); **F04C 23/00** (2006.01); **F04C 29/00** (2006.01); **F04C 29/04** (2006.01); **F04D 29/00** (2006.01); **F04D 29/053** (2006.01)

CPC (source: EP US)
F01C 21/10 (2013.01 - EP US); **F04C 23/00** (2013.01 - EP US); **F04C 23/008** (2013.01 - EP US); **F04C 29/005** (2013.01 - EP US); **F04C 29/0085** (2013.01 - EP US); **F04C 29/04** (2013.01 - EP US); **F04C 2220/10** (2013.01 - EP US); **F04C 2240/51** (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 0206675 A2 20020124; **WO 0206675 A3 20020314**; AT E423906 T1 20090315; DE 60137772 D1 20090409; EP 1301712 A2 20030416; EP 1301712 B1 20090225; FR 2812040 A1 20020125; FR 2812040 B1 20030207; JP 2004504537 A 20040212; US 2002150484 A1 20021017; US 6644942 B2 20031111

DOCDB simple family (application)
FR 0102314 W 20010717; AT 01958136 T 20010717; DE 60137772 T 20010717; EP 01958136 A 20010717; FR 0009401 A 20000718; JP 2002512545 A 20010717; US 8816802 A 20020315