

Title (en)
Electric pump

Title (de)
Elektrische Pumpe

Title (fr)
Pompe électrique

Publication
EP 1477664 A3 20050504 (EN)

Application
EP 04010792 A 20040506

Priority
• JP 2003132311 A 20030509
• JP 2003310294 A 20030902
• JP 2003423587 A 20031219

Abstract (en)
[origin: EP1477664A2] An electric pump (2) draws and discharges fluid. When the fluid receives heat from the pump (2), the fluid has a saturation vapor pressure that can surpass the pressure of fluid that is drawn into the pump (2) and is lower than the pressure of fluid discharged from the pump (2). The pump (2) includes an electric motor; a pump section that is driven by the electric motor (M) to draw, pressurize, and discharge the fluid; and a housing (6) for accommodating the pump section. The housing (6) defines a motor chamber (156) that accommodates the electric motor (M). The pressure in the motor chamber (152) is equal to the pressure of fluid that is discharged from the pump section. Therefore, the pump (2) prevents fluid in the motor chamber (152) from vaporizing. <IMAGE>

IPC 1-7
F02M 37/04; **F02M 37/08**; **F02M 37/10**

IPC 8 full level
F02M 37/08 (2006.01); **F02M 37/10** (2006.01); **F02M 37/22** (2006.01)

CPC (source: EP US)
F02M 37/08 (2013.01 - EP US); **F02M 37/103** (2013.01 - EP US)

Citation (search report)
• [XY] US 6335581 B1 20020101 - WARNKE WOLFGANG [DE]
• [XY] US 2002166809 A1 20021114 - WEHRUM BERND [DE], et al
• [XY] US 5762481 A 19980609 - OI KIYOTOSHI [JP]
• [YA] US 5797376 A 19980825 - FRANK KURT [DE], et al
• [YA] US 3659965 A 19720502 - EBERT JURGEN, et al

Cited by
CN105863909A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1477664 A2 20041117; **EP 1477664 A3 20050504**; CN 100338351 C 20070919; CN 1550658 A 20041201; US 2004202557 A1 20041014

DOCDB simple family (application)
EP 04010792 A 20040506; CN 200410047785 A 20040507; US 83642804 A 20040430