

Title (en)
Variable displacement pump unit

Title (de)
Verstellpumpeneinheit

Title (fr)
Unité de pompe à déplacement variable

Publication
EP 1462647 B1 20070411 (DE)

Application
EP 04004296 A 20040226

Priority
DE 10313426 A 20030325

Abstract (en)
[origin: EP1462647A2] The hydraulic machine has a casing (1) containing a rotating cylinder block (11) in a rotor (10) of an electric motor. The stator (9) of the motor is fastened to the inside surface of the housing. The machine is used for pumping fluid. As the rotor turns, the working pistons (13) are made to reciprocate in their cylinders (12) by a tilting plate (14) fixed to the housing. Hydraulic pistons (22,26) are connected to control members (28,33) to adjust the tilt of the plate defining the stroke of the working pistons. There is a tilt measurement device (27) for the tilting plate and a pressure sensor (20) for the high-pressure output from the working cylinders.

IPC 8 full level
F04B 1/20 (2006.01); **F04B 1/32** (2006.01); **F04B 49/08** (2006.01)

CPC (source: EP)
F04B 1/324 (2013.01); **F04B 2205/04** (2013.01)

Cited by
EP2955379A3; CN107429675A; US8006610B2; WO2009024336A1

Designated contracting state (EPC)
AT CH FR GB IT LI

DOCDB simple family (publication)
EP 1462647 A2 20040929; EP 1462647 A3 20050720; EP 1462647 B1 20070411; AT E359442 T1 20070515; DE 10313426 B3 20041111

DOCDB simple family (application)
EP 04004296 A 20040226; AT 04004296 T 20040226; DE 10313426 A 20030325