

Title (en)
ELECTRIC MOTOR-PUMP ASSEMBLY

Title (de)
ELEKTROMOTOR-/PUMPENAGGREGAT

Title (fr)
ENSEMBLE MOTEUR ELECTRIQUE-POMPE

Publication
EP 0894359 A1 19990203 (DE)

Application
EP 97916457 A 19970410

Priority
• DE 19615053 A 19960417
• EP 9701764 W 19970410

Abstract (en)
[origin: DE19615053A1] The proposal is for a motor-pump assembly consisting of an electric motor (1) and a pump (2). The shaft (30) carries both the armature (26) of the electric motor and the eccentric (31) of the pump. The shaft is essentially supported by two pump bearings (6, 11) fitted on either side of the eccentric in the pump housing (3). To ensure that the third, motor bearing (25) is aligned with the two pump bearings, the motor housing is movably fitted above the pump housing. As, however, the first pump bearing (6) is secured to the end plate (21) before the electric motor is fitted, it is proposed that the holder have a clearance A such that the first pump bearing is unlosably secured to the end plate (21) before assembly. After assembly, i.e. when the first pump bearing is inserted into the corresponding recess in the pump housing (3), the end plate can be sufficiently moved to align the bearing with the pump bearing (6). The order of magnitude of the clearance is between 0.5 and 1 mm.

IPC 1-7
H02K 7/14; **H02K 5/26**; **F04B 39/14**; **F04B 39/04**

IPC 8 full level
F04B 9/00 (2006.01); **B60T 8/40** (2006.01); **F04B 17/03** (2006.01); **F04B 35/00** (2006.01); **F04B 53/22** (2006.01); **H02K 5/26** (2006.01); **H02K 7/08** (2006.01); **H02K 7/14** (2006.01)

CPC (source: EP)
B60T 8/4022 (2013.01); **F04B 17/03** (2013.01); **F04B 53/22** (2013.01); **F16C 3/18** (2013.01); **H02K 5/26** (2013.01); **H02K 7/14** (2013.01); **H02K 7/08** (2013.01)

Citation (search report)
See references of WO 9739514A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
DE 19615053 A1 19971023; EP 0894359 A1 19990203; JP 2000508402 A 20000704; WO 9739514 A1 19971023

DOCDB simple family (application)
DE 19615053 A 19960417; EP 9701764 W 19970410; EP 97916457 A 19970410; JP 53671497 A 19970410