

Title (en)

Hydraulic-electromagnetic motor pump with floating piston

Title (de)

Hydraulische elektromagnetische Motorpumpeneinheit mit Freikolbentspanner

Title (fr)

Moto-pompe hydraulique électromagnétique avec piston flottant

Publication

**EP 1365149 A3 20031217 (EN)**

Application

**EP 03010665 A 20030513**

Priority

IT MI20020271 U 20020523

Abstract (en)

[origin: EP1365149A2] A motor pump (10) of the hydraulic-electromagnetic type with floating piston comprising a container body (12) being partly delimited, in its external part, by a coil (14); an inlet duct (44') and an opposite outlet duct (36); a couple of opposite magnetic bearings (46, 46') that are spaced between them and placed between said body (12) and coil (14); a delivery piston (16) that is placed inside the body (12) and slides in it supported by a front helical-shaped spring (20) and by a rear one (20') and a magnetic bushing (52) placed in the central-lower part of the body (12) facing the inlet duct (44). <IMAGE>

IPC 1-7

**F04B 17/04**

IPC 8 full level

**F04B 17/04** (2006.01)

CPC (source: EP)

**F04B 17/046** (2013.01)

Citation (search report)

- [X] EP 1205663 A1 20020515 - C E M E ENGINEERING S P A [IT]
- [X] US 4749343 A 19880607 - BROWN RALPH V [US]
- [X] EP 1001167 A2 20000517 - MIKUNI ADEC CORP [JP]
- [A] EP 0288216 A1 19881026 - EATON SA MONACO [MC]

Cited by

CN107795452A; ITMI20101900A1; IT201700060837A1; CN110998091A; US9816496B2; WO2018224903A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 1365149 A2 20031126; EP 1365149 A3 20031217; EP 1365149 B1 20060920**; AT E340306 T1 20061015; DE 60308440 D1 20061102; DE 60308440 T2 20070920; IT MI20020271 U1 20031124

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