

Title (en)

Pressurised-fluid motor for electrorheological fluids

Title (de)

Druckmittelmotor für elektrorheologische Flüssigkeiten

Title (fr)

Vérin à fluide à pression pour fluides électrorhéologiques

Publication

**EP 0898085 A3 20000119 (DE)**

Application

**EP 98114617 A 19980804**

Priority

DE 19735466 A 19970816

Abstract (en)

[origin: EP0898085A2] The motor has a piston movable in a housing (1) with two working chambers, an inlet channel for the liquid from a higher pressure chamber, an outlet channel to a lower pressure chamber and electrorheological valves (1a,1b) with annular gaps (8) connecting the channels and chambers with electrodes for generating an electric field. The valves are formed by longitudinal bores (6) through the housing wall containing insulated elements (7) bounding annular gaps of constant width. The elements and housing are connected to high voltage and earth respectively.

IPC 1-7

**F15B 21/06**

IPC 8 full level

**F15B 15/20** (2006.01); **F15B 21/06** (2006.01); **H02N 11/00** (2006.01)

CPC (source: EP US)

**F15B 21/065** (2013.01 - EP US)

Citation (search report)

- [DYA] US 4840112 A 19890620 - BHADRA DILIP K [US], et al
- [Y] GB 2244006 A 19911120 - BLATCHFORD & SONS LTD [GB]
- [A] US 3552275 A 19710105 - CHANEY HAROLD K, et al
- [A] US 5377721 A 19950103 - KIYOHIRO NORIAKI [JP], et al
- [A] US 3587613 A 19710628 - MARK JOHN W, et al

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EP1101953A3

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**DE 19735466 A1 19990218**; **DE 19735466 B4 20070628**; DE 59813531 D1 20060614; EP 0898085 A2 19990224; EP 0898085 A3 20000119; EP 0898085 B1 20060510; JP H11125215 A 19990511; KR 19990023619 A 19990325; US 6116144 A 20000912

DOCDB simple family (application)

**DE 19735466 A 19970816**; DE 59813531 T 19980804; EP 98114617 A 19980804; JP 23797398 A 19980811; KR 19980033111 A 19980814; US 13260998 A 19980811