Title (en)

Actuator for electromagnetic valve drive

Title (de)

Aktor zur elektromagnetischen Ventilsteuerung

Title (fr)

Actionneur pour commande électromagnétique de soupape

Publication

**EP 0977213 A1 20000202 (DE)**

Application

**EP 99113752 A 19990714**

Priority

- DE 19834109 A 19980729
- DE 19924417 A 19990527

Abstract (en)

The actuator includes two square, opposed magnetic yoke sections (OM, SM) for valve opening and closing respectively. These have coil-accommodating recesses (SF) formed into them. The inserted coils , and the recesses, are hollow-cylindrical, to reduce ohmic losses.

Abstract (de)

Die Erfindung betrifft einen Aktor zur elektromagnetischen Ventilsteuerung, bei dem das Spulenfenster im Joch des Öffnermagneten und im Joch des Schließermagneten sowie die in den Spulenfenstern angeordneten Erregerspulen zur Reduzierung von ohm'schen Verlusten die Form eines Hohlzylinders aufweisen. <IMAGE>

IPC 1-7 (main, further and additional classification)

**H01F 7/16**; F01L 9/04

IPC 8 full level (invention and additional information)

**F01L 9/04** (2006.01); **H01F 7/16** (2006.01)

CPC (invention and additional information)

**F01L 9/04** (2013.01); **H01F 7/1638** (2013.01)

Citation (search report)

- [X] DE 19751609 A1 19980604 - FEV MOTORENTECH GMBH & CO KG [DE]
- [A] EP 0793004 A1 19970903 - DAIMLER BENZ AG [DE]
- [A] DE 29712502 U1 19970918 - FEV MOTORENTECH GMBH & CO KG [DE]
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Designated contracting state (EPC)

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

EPO simple patent family

EP 0977213 A1 20000202; JP 2000133517 A 20000512

INPADOC legal status

**2000-08-30** [18W] APPLICATION WITHDRAWN
- Date of withdrawal : 20000705

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**2000-02-02** [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A1
- Designated State(s) : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

**2000-02-02** [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:
- Free text : AL;LT;LV;MK;RO;SI