

## Title (en)

ACTUATING DEVICE FOR A HYDRAULIC, ELECTRICALLY CONTROLLED PROPORTIONAL VALVE

## Publication

**EP 0278227 A3 19891213 (DE)**

## Application

**EP 88100238 A 19880111**

## Priority

DE 3704189 A 19870211

## Abstract (en)

[origin: EP0278227A2] An actuating device (10) for an electro-hydraulic proportional valve (16) is proposed in which a proportional magnet (11) and a displacement transducer (12) are arranged in a common housing (14) and have a common one-piece pressure tube (23) in which an armature (31) and a receiver core (33) rigidly coupled to the latter are guided. The hollow bore (17) accommodating the pressure tube (23) has in the housing (14) a second section (22) of smaller diameter which supports the pressure tube (23) and merges towards both end faces (15, 18) into sections (19, 24) of larger diameter so that magnet coil (21) and pressure tube (23) can be fitted in the housing (14) from an end face (15) on the valve side, and the measuring coils (37) on the receiver side can be fitted in the housing (14) from the other end face (18). A flat longitudinal side of the housing (14) forms a mounting surface (47) spanning the proportional magnet (11) and the displacement transducer (12) for attachment to the associated electronic unit (13). <IMAGE>

## IPC 1-7

**F15B 13/16; F16K 37/00**

## IPC 8 full level

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## CPC (source: EP)

**H01F 7/1607** (2013.01); **H01F 2007/085** (2013.01); **H01F 2007/1684** (2013.01)

## Citation (search report)

- [A] DE 3241521 A1 19840510 - BOSCH GMBH ROBERT [DE]
- [A] DE 3132212 A1 19830303 - KLEIN SCHANZLIN & BECKER AG [DE]
- [A] DE 3506053 A1 19860821 - REXROTH MANNESMANN GMBH [DE]
- [A] PATENT ABSTRACTS OF JAPAN Band 10, Nr. 96 (M-469)(2153) 12 April 1986, & JP-A-60 231 081 (SANMEI DENKI) 16.11.1985
- [A] PATENT ABSTRACTS OF JAPAN Band 7, Nr. 5 (M-184)(1150) 11 Januar 1983, & JP-A-57 163 782 (HITACHI KENKI) 08.10.1982

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US8138871B2; DE19707587B4; GB2262809A; GB2262809B; DE19530935A1; DE19530935C2; WO02091404A1

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