

Title (en)

Electrical means for controlling a multiway valve with wear condition diagnosis

Title (de)

Elektrische Einrichtung für die Ansteuerung eines Mehrwegeventils mit einer Verschleisszustandserkennung

Title (fr)

Agencement électrique pour la commande d'un distributeur à voies multiples avec diagnostic d'état d'usage

Publication

**EP 1365159 A3 20050525 (DE)**

Application

**EP 03101417 A 20030520**

Priority

DE 10222890 A 20020523

Abstract (en)

[origin: EP1365159A2] The device has an electronic unit (5) that receives the electrical drive signal (4) and a reaction signal (6) following a drive pulse and determines the time interval between the signals to determine the switching delay as a measure of the state of wear of a switching mechanism (2). The reaction signal is determined with a pressure sensor integrated into the multi-way valve and electrically connected to the electronic unit. Independent claims are also included for the following: (a) a pneumatic multi-way valve with an inventive electrical device (b) a pneumatic valve unit with several multi-way valves (c) and a method of driving a multi-way valve with an electrical drive signal.

IPC 1-7

**F15B 19/00**; F16K 37/00

IPC 8 full level

**F15B 13/04** (2006.01); **F15B 19/00** (2006.01)

CPC (source: EP)

**F15B 13/0402** (2013.01); **F15B 19/005** (2013.01)

Citation (search report)

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- [Y] US 5765589 A 19980616 - STOLL KURT [DE], et al
- [X] EP 1070893 A2 20010124 - SMC CORP [JP]
- [X] DE 20120609 U1 20020321 - FESTO AG & CO [DE], et al
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 09 31 July 1998 (1998-07-31)

Cited by

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**EP 1365159 A2 20031126**; **EP 1365159 A3 20050525**; **EP 1365159 B1 20070627**; AT E365872 T1 20070715; DE 10222890 A1 20031211; DE 10222890 B4 20040617; DE 50307545 D1 20070809

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