

Title (en)

Circuit arrangement for controlling of electromagnetic actuation means and method for operating such circuit arrangement

Title (de)

Schaltungsanordnung zur Ansteuerung eines elektromagnetischen Betätigungsorgans und Verfahren zum Betreiben einer derartigen Schaltungsanordnung

Title (fr)

Circuit pour contrôler un actionneur électromagnétique et procédé pour le fonctionnement d'un tel circuit

Publication

EP 0977230 A3 20010816 (DE)

Application

EP 99111235 A 19990609

Priority

DE 19834204 A 19980729

Abstract (en)

[origin: EP0977230A2] Actuating mechanisms have activation coils (L2,L2',L3,L3') with a coil core, also activation switches (T2,T2',T3,T3') to connect and disconnect the activation coils to and from an energy source (4) and a ferromagnetic adjuster with movable bearings to go from static to active driven by a magnetic field created by an activation coil with the activation switch off.

IPC 1-7

H01H 47/00

IPC 8 full level

F02D 41/20 (2006.01); **F02M 51/06** (2006.01); **H01F 7/18** (2006.01)

CPC (source: EP)

F02D 41/20 (2013.01); **H01F 7/1816** (2013.01)

Citation (search report)

- [X] GB 2020503 A 19791114 - BENDIX CORP
- [X] US 4688139 A 19870818 - NAGATA OSAMU [JP], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 018, no. 239 (M - 1601) 9 May 1994 (1994-05-09)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 05 30 April 1998 (1998-04-30)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 01 28 February 1995 (1995-02-28)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 04 31 March 1998 (1998-03-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 04 31 May 1995 (1995-05-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 10 31 August 1999 (1999-08-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 01 29 January 1999 (1999-01-29)

Cited by

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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

DOCDB simple family (publication)

EP 0977230 A2 20000202; **EP 0977230 A3 20010816**; DE 19834204 A1 20000203; JP 2000100621 A 20000407; JP 3094020 B2 20001003

DOCDB simple family (application)

EP 99111235 A 19990609; DE 19834204 A 19980729; JP 20869199 A 19990723