

Title (en)

APPARATUS FOR DETECTING TROUBLE WITH SOLENOID-OPERATED DEVICE

Title (de)

FEHLERERKENNUNGSVORRICHTUNG EINES ELEKTROMAGNETISCHEN GESTEVERTEN ANORDNUNG

Title (fr)

APPAREIL PERMETTANT DE DETECTER LES DEFAILLANCES D'UN DISPOSITIF A SOLENOIDE

Publication

EP 0995997 A4 20040721 (EN)

Application

EP 99910824 A 19990402

Priority

- JP 9901753 W 19990402
- JP 11821998 A 19980428

Abstract (en)

[origin: EP0995997A1] An apparatus for determining faults of an electromagnetic coil actuator that includes two current paths having of two pairs of series switches(10,20,30,40) and an electromagnetic coil(1) connected between the intermediates nodes(2,4) of the pairs. The existence of faults of an electromagnetic coil actuator is decided based both on the state of operation of the switch pair and on the magnitude of the voltage signal corresponding to the sum of a first voltage signal(VP) and a second voltage signal(VN) corresponding, respectively, to potentials at the intermediate nodes(2,4). <IMAGE>

IPC 1-7

G01R 31/02; **H01F 7/20**; **G01R 31/06**; **H01F 7/18**

IPC 8 full level

G01R 31/00 (2006.01); **H01F 7/18** (2006.01)

CPC (source: EP)

H01F 7/1844 (2013.01); **H01F 7/1872** (2013.01)

Citation (search report)

- [X] US 4673857 A 19870616 - INOUE YUICHI [JP]
- [X] US 4749931 A 19880607 - KEGEL JACOBUS A [NL], et al
- [A] US 3909681 A 19750930 - CAMPARI ALFREDO, et al
- [A] EP 0638812 A2 19950215 - VEBA KRAFTWERKE RUHR [DE]
- [A] GB 2305560 A 19970409 - GEC ALSTHOM LTD [GB]
- [A] GB 2273836 A 19940629 - ROVER GROUP [GB]
- [X] PATENT ABSTRACTS OF JAPAN vol. 017, no. 610 (M - 1508) 10 November 1993 (1993-11-10)
- See references of WO 9956139A1

Cited by

US7486496B2; WO2005096327A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0995997 A1 20000426; **EP 0995997 A4 20040721**; JP H11311651 A 19991109; WO 9956139 A1 19991104

DOCDB simple family (application)

EP 99910824 A 19990402; JP 11821998 A 19980428; JP 9901753 W 19990402