Title (en)
METHOD FOR FAULT DETECTION IN AN ACTUATOR

Title (de)
VERFAHREN ZUR FEHLERERKENNUNG AN EINEM AKTUATOR

Title (fr)
PROCEDE DE DETECTION DES ERREURS DANS UN ACTIONNEUR

Publication
EP 1994300 A1 20081126 (DE)

Application
EP 07712278 A 20070221

Priority
• EP 2007051679 W 20070221
• DE 102006011807 A 20060315

Abstract (en)
[origin: WO2007104631A1] The invention comprises a method for fault detection in an actuator (2). On account of an actuating variable (1) which is present at an input of the actuator (2) and is generated by a control unit, for example an automatic or automated change-speed gearbox or an automated clutch, a signal for the measured actuator position (4) is generated at the output of the actuator (2). The signal for the measured actuator position (4) is applied to an input of a signal conditioning unit (5) which determines a measured actuator movement (6) from it. The actuating variable (1) is also applied to an input of a modelling unit (3) which calculates an actuator movement which is to be expected from it. The measured actuator movement (6) and the calculated actuator movement (7) are supplied to a computing unit (8) which generates a status signal (9) at its output, which status signal (9) corresponds to the functionality of the actuator (2) and the functionality of the sensor for determining the actuator position (4).

IPC 8 full level
F16D 48/06 (2006.01); **F16H 61/12** (2010.01)

CPC (source: EP US)
F16D 48/06 (2013.01 - EP US); **F16H 61/12** (2013.01 - EP US); **G05B 23/0243** (2013.01 - EP US); F16D 2500/3026 (2013.01 - EP US); F16D 2500/501 (2013.01 - EP US); F16D 2500/5108 (2013.01 - EP US); F16D 2500/70605 (2013.01 - EP US); F16D 2500/7082 (2013.01 - EP US); F16H 61/32 (2013.01 - EP US); F16H 2061/1208 (2013.01 - EP US); F16H 2061/1284 (2013.01 - EP US); F16H 2061/1288 (2013.01 - EP US); G05B 2219/24083 (2013.01 - EP US)

Citation (search report)
See references of WO 2007104631A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102006011807 A1 20070920; EP 1994300 A1 20081126; US 2009099810 A1 20090416; US 7827001 B2 20101102; WO 2007104631 A1 20070920

DOCDB simple family (application)
DE 102006011807 A 20060315; EP 07712278 A 20070221; EP 2007051679 W 20070221; US 28238707 A 20070221