

Title (en)

METHOD FOR CONTROLLING AN ELECTROMECHANICAL ACTUATING DRIVE FOR A GAS EXCHANGE VALVE OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUM STEUERN EINES ELEKTROMECHANISCHEN STELLANTRIEBS FÜR EIN GASWECHSELVENTIL EINER BRENNKRAFTMASCHINE

Title (fr)

PROCEDE DE COMMANDE D'UN MECANISME DE COMMANDE ELECTROMECHANIQUE DESTINE A UNE SOUPAPE D'ECHANGE GAZEUX D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1133621 B1 20020918 (DE)

Application

EP 99964376 A 19991124

Priority

- DE 9903731 W 19991124
- DE 19854627 A 19981126

Abstract (en)

[origin: WO0031384A1] An assessed value (FG,AV,0) of an interfering force resulting from the gas forces which influence the gas exchange valve immediately before it opens is calculated. The time history (FG,AV,t) of the interfering force, which is produced on the gas exchange valve after it has begun to open, is assessed based on the step response of a transmission member to a step change of the interfering force from the assessed value (FG,AV,0) to a predetermined value. An actuating signal for the actuating drive is determined in dependence on the time history of the interfering force.

IPC 1-7

F01L 9/04

IPC 8 full level

F01L 13/00 (2006.01); **F01L 9/20** (2021.01); **F02D 13/02** (2006.01)

CPC (source: EP US)

F01L 9/20 (2021.01 - EP US); **F02D 41/145** (2013.01 - EP US); **F01L 2201/00** (2013.01 - EP US); **F02D 2200/703** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 0031384 A1 20000602; DE 59902798 D1 20021024; EP 1133621 A1 20010919; EP 1133621 B1 20020918; JP 2002530582 A 20020917; US 2001054400 A1 20011227; US 6371064 B2 20020416

DOCDB simple family (application)

DE 9903731 W 19991124; DE 59902798 T 19991124; EP 99964376 A 19991124; JP 2000584175 A 19991124; US 86725201 A 20010529