

Title (en)

Control method of an internal combustion engine with a gas-dynamic pressure wave charger

Title (de)

Verfahren zur Regelung einer Verbrennungsmaschine mit einer gasdynamischen Druckwellenmaschine

Title (fr)

Méthode de contrôle d'un moteur à combustion interne avec un compresseur à ondes de pression gazodynamique

Publication

EP 1375858 B1 20051005 (DE)

Application

EP 02405544 A 20020628

Priority

EP 02405544 A 20020628

Abstract (en)

[origin: EP1375858A1] The supercharger (30) is connected to the IC engine (33) by the HP exhaust gas (31) and supercharged air (32) ducts the width of the former being variable. The gas housing (34) can be rotated approx. 250 relative to the air housing. The aim is to line-up the openings of these ducts to coordinate the operation of the charger with a specific characteristic. A pipe (46) connects the supercharged air duct to the exhaust gas duct and is fitted with an electronically controlled non-return valve (47). This enables positive pressure surges in the air duct to be transferred to the exhaust gas duct.

IPC 1-7

F02B 33/42; **F04F 11/02**

IPC 8 full level

F02B 33/42 (2006.01); **F04F 13/00** (2009.01)

IPC 8 main group level

F04F 99/00 (2009.01)

CPC (source: EP US)

F02B 33/42 (2013.01 - EP US); **F04F 13/00** (2013.01 - EP US)

Cited by

DE102008052631A1; CN106321291A; EP2562381A1; US7669587B2; WO2011100958A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1375858 A1 20040102; **EP 1375858 B1 20051005**; AT E306014 T1 20051015; BR 0301987 A 20040831; BR 0301987 B1 20111227; DE 50204469 D1 20060216; DE 50307685 D1 20070830; ES 2250605 T3 20060416; JP 2004100690 A 20040402; JP 4481595 B2 20100616; US 2004003802 A1 20040108; US 6988493 B2 20060124

DOCDB simple family (application)

EP 02405544 A 20020628; AT 02405544 T 20020628; BR 0301987 A 20030625; DE 50204469 T 20020628; DE 50307685 T 20030527; ES 02405544 T 20020628; JP 2003177821 A 20030623; US 46045403 A 20030612