

Title (en)

METHOD FOR DETERMINING A POSITION SET POINT OF A BY-PASS ACTUATOR, INTENDED FOR A TURBOSUPERCHARGER

Title (de)

VERFAHREN ZUR BESTIMMUNG EINES POSITIONSSOLLWERTS EINES FÜR EINEN TURBOLADER BESTIMMTEN BYPASS-AKTUATORS

Title (fr)

PROCEDE, POUR UN TURBCOMPRESSEUR DE SURALIMENTATION, DE DETERMINATION D'UNE CONSIGNE DE POSITION D'UN ACTIONNEUR DE BY-PASS

Publication

EP 2414657 A1 20120208 (FR)

Application

EP 10708331 A 20100211

Priority

- FR 2010050234 W 20100211
- FR 0951992 A 20090330

Abstract (en)

[origin: WO2010112718A1] The invention relates to a method intended for a turbosupercharger (1, 11) of a heat engine (4) including a turbine (2, 12), a compressor (3, 13) and a by-pass actuator (15, 16) which can be used to control an air flow (Wact) that does not pass through the turbine (2, 12). The method includes a step consisting in determining a position set point (asp) of the by-pass actuator (15, 16) as a function of a compression ratio set point (PRc,sp), a compression ratio measurement (PRc,m), a measurement of the rate of flow (Wc,m) through the compressor (3, 13), a measurement of the pressure Pdt downstream from the turbine (2, 12), a measurement of the pressure Pdc downstream from the compressor (3, 13), a measurement of the temperature Tut upstream from the turbine (2, 12), and a measurement of the temperature Tuc upstream from the compressor (3, 13). The invention can be used to control a supercharging device with a single or dual turbocharger.

IPC 8 full level

F02D 23/00 (2006.01)

CPC (source: EP KR US)

F02B 37/004 (2013.01 - KR); **F02B 37/013** (2013.01 - KR); **F02B 37/18** (2013.01 - EP KR US); **F02D 23/00** (2013.01 - EP KR US); **F02D 41/0007** (2013.01 - EP KR US); **F02B 37/004** (2013.01 - EP US); **F02B 37/013** (2013.01 - EP US); **F02D 2041/1434** (2013.01 - EP KR US); **Y02T 10/12** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2010112718A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

FR 2943727 A1 20101001; CN 102449290 A 20120509; CN 102449290 B 20141105; EP 2414657 A1 20120208; KR 20120006525 A 20120118; US 2012222417 A1 20120906; US 8931271 B2 20150113; WO 2010112718 A1 20101007

DOCDB simple family (application)

FR 0951992 A 20090330; CN 201080023128 A 20100211; EP 10708331 A 20100211; FR 2010050234 W 20100211; KR 20117025787 A 20100211; US 201013262404 A 20100211