Title (en)

SUPERCHARGING SYSTEM FOR AN INTERNAL COMBUSTION PISTON ENGINE AND METHOD OF OPERATING AN INTERNAL COMBUSTION PISTON ENGINE

Title (de)

AUFLADESYSTEM FÜR EINEN HUBKOLBENMOTOR SOWIE VERFAHREN ZUM BETRIEB EINES HUBKOLBENMOTORS

Title (fr)

SYSTÈME DE SURALIMENTATION POUR UN MOTEUR À PISTON À COMBUSTION INTERNE ET PROCÉDÉ DE FONCTIONNEMENT D'UN MOTEUR À PISTON À COMBUSTION INTERNE

Publication

EP 2724008 A2 20140430 (EN)

Application

EP 12737315 A 20120612

Priority

- FI 20115651 A 20110623
- FI 2012050587 W 20120612

Abstract (en)

[origin: WO2012175794A2] Invention relates to a supercharging system for an internal combustion piston engine (100) comprising a turbocharger unit (101) having a compressor part (102) and a turbine part (103) mechanically connected with each other, and a gas flow system connecting the compressor part (102) and the turbine part (103) of turbocharger unit (101) with the engine, which gas flow system comprises at least one fluid flow control device arranged to control the flow of gas between the compressor part (102), the turbine part (103) and the engine (100). At least one fluid flow control device (22) comprises at least two parallel valve units (22.1 - 22. N) each having two operational positions.

IPC 8 full level

F02D 41/00 (2006.01); **F02B 37/18** (2006.01)

CPC (source: EP FI)

F02B 37/183 (2013.01 - EP FI); **F02D 23/00** (2013.01 - FI); **F02D 41/0007** (2013.01 - EP FI); **F02M 26/38** (2016.02 - EP); **F02M 26/66** (2016.02 - EP); **F02M 26/71** (2016.02 - EP); **G05D 7/0652** (2013.01 - FI); F02M 26/05 (2016.02 - EP); Y02T 10/12 (2013.01 - EP)

Citation (search report)

See references of WO 2012175794A2

Citation (examination)

- EP 1672197 A1 20060621 - BORGWARNER INC [US]
- EP 0137282 A2 19850417 - FRAM LTD CANADA [CA]

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012175794 A2 20121227; **WO 2012175794 A3 20130221**; EP 2724008 A2 20140430; FI 123325 B 20130228; FI 20115651 A0 20110623; FI 20115651 A 20121224

DOCDB simple family (application)

FI 2012050587 W 20120612; EP 12737315 A 20120612; FI 20115651 A 20110623