

Title (en)

EXHAUST GAS TURBOCHARGER, SUPERCHARGED INTERNAL COMBUSTION ENGINE AND CORRESPONDING METHOD

Title (de)

ABGASTURBOLADER, AUFGELADENE BRENNKRAFTMASCHINE UND VERFAHREN HIERZU

Title (fr)

TURBOCOMPRESSEUR A GAZ D'ECHAPPEMENT, MOTEUR A COMBUSTION INTERNE SURALIMENTE ET PROCEDE ASSOCIE

Publication

EP 1320670 A1 20030625 (DE)

Application

EP 01978360 A 20010912

Priority

- DE 10048237 A 20000929
- EP 0110525 W 20010912

Abstract (en)

[origin: WO0227164A1] The invention relates to an internal combustion engine, which is provided with an exhaust gas recirculation system (23) and which has an exhaust gas turbocharger (2) having a variable turbine geometry (8). In order to improve the behavior of the exhaust gas, the exhaust gas turbine (3) is provided with two inflow channels (10, 11), which are separated from one another in a pressure-tight manner, whereby an inflow channel (10) communicates with an exhaust gas line (17), from which a recirculation line (24) of the exhaust gas recirculation system (23) branches.

IPC 1-7

F02B 37/24; **F02B 37/18**; **F02B 37/02**; **F01D 17/16**

IPC 8 full level

F02B 37/00 (2006.01); **F01D 17/16** (2006.01); **F02B 37/02** (2006.01); **F02B 37/12** (2006.01); **F02B 37/24** (2006.01); **F02B 39/00** (2006.01); **F02C 6/12** (2006.01); **F02D 23/00** (2006.01); **F02M 26/05** (2016.01); **F02M 26/43** (2016.01); **F02D 9/06** (2006.01)

CPC (source: EP US)

F01D 17/165 (2013.01 - EP US); **F02B 37/02** (2013.01 - EP US); **F02B 37/025** (2013.01 - EP US); **F02B 37/24** (2013.01 - EP US); **F02C 6/12** (2013.01 - EP US); **F02M 26/05** (2016.02 - EP US); **F02M 26/43** (2016.02 - EP US); **F02B 29/0406** (2013.01 - EP US); **F02D 9/06** (2013.01 - EP US); **F02M 26/10** (2016.02 - EP US); **F02M 26/23** (2016.02 - EP US); **F05D 2220/40** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)

See references of WO 0227164A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

WO 0227164 A1 20020404; DE 10048237 A1 20020411; EP 1320670 A1 20030625; JP 2004510094 A 20040402; US 2003230085 A1 20031218

DOCDB simple family (application)

EP 0110525 W 20010912; DE 10048237 A 20000929; EP 01978360 A 20010912; JP 2002530509 A 20010912; US 40127303 A 20030327