

Title (en)

INTERNAL COMBUSTION ENGINE COMPRISING A GAS CONVEYING SYSTEM AND OPERATING METHOD THEREFOR

Title (de)

BRENNKRAFTMASCHINE MIT GASFÖRDERSYSTEM UND BETRIEBSVERFAHREN HIERFÜR

Title (fr)

MOTEUR A COMBUSTION INTERNE POURVU D'UN SYSTEME DE TRANSPORT DE GAZ ET PROCEDE DE FONCTIONNEMENT CORRESPONDANT

Publication

**EP 1540153 A1 20050615 (DE)**

Application

**EP 03798145 A 20030830**

Priority

- DE 10243317 A 20020918
- EP 0309646 W 20030830

Abstract (en)

[origin: WO2004029425A1] Disclosed is an internal combustion engine (1) comprising a gas conveying system that is provided with a turbine (7) which is driven by an air flow and a pump (8) which is driven by said turbine (7) and by means of which gas can be supplied to the exhaust system (3, 4, 5). Also disclosed is a method for operating said internal combustion engine (1), according to which the quantity of injected fuel is adjusted in accordance with the conveying performance of the pump (8) when starting the internal combustion engine (1). The invention applies to motor vehicles, particularly passenger cars comprising an internal combustion engine with fuel injection.

IPC 1-7

**F01N 3/32**; **F02D 9/02**

IPC 8 full level

**F01N 3/22** (2006.01); **F01N 3/32** (2006.01); **F02D 41/02** (2006.01); **F02D 41/06** (2006.01); **F02D 9/02** (2006.01)

CPC (source: EP US)

**F01N 3/22** (2013.01 - EP US); **F01N 3/32** (2013.01 - EP US); **F02D 41/0255** (2013.01 - EP US); **F02D 41/062** (2013.01 - EP US); **F02D 2009/0279** (2013.01 - EP US); **F02D 2009/0283** (2013.01 - EP US); **Y02A 50/20** (2017.12 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2004029425A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**WO 2004029425 A1 20040408**; DE 10243317 A1 20040401; DE 10243317 B4 20151015; EP 1540153 A1 20050615; JP 2006517012 A 20060713; US 2006096279 A1 20060511

DOCDB simple family (application)

**EP 0309646 W 20030830**; DE 10243317 A 20020918; EP 03798145 A 20030830; JP 2004538858 A 20030830; US 52814705 A 20051021