

Title (en)

Exhaust system with reservoir for an internal combustion engine

Title (de)

Abgasanlage einer Brennkraftmaschine mit einem Speichervolumen

Title (fr)

Système d'échappement avec accumulateur pour un moteur à combustion interne

Publication

**EP 0980966 B1 20020508 (DE)**

Application

**EP 99115344 A 19990803**

Priority

- DE 19837507 A 19980819
- DE 19837509 A 19980819

Abstract (en)

[origin: EP0980966A1] The engine (1) has an exhaust gas cleaner/catalytic converter (3,5) and a storage volume for part of the exhaust flow after starting the engine. The vacuum in the storage volume (8) is maintained by a shut-off valve (10) when the engine is stopped. An under pressure pump (18) to evacuate the storage volume is connected to it with its intake side. The feed side of the pump is connected to intake unit (11) of the engine, and/or to the exhaust pipe (4') upstream of the exhaust gas cleaner/main catalytic converter (5).

IPC 1-7

**F01N 3/18**; **F02M 25/07**

IPC 8 full level

**F01N 3/18** (2006.01); **F01N 3/20** (2006.01); **F02D 9/04** (2006.01); **F02M 25/07** (2006.01)

CPC (source: EP US)

**F01N 3/18** (2013.01 - EP US); **F01N 3/20** (2013.01 - EP US); **F02D 9/04** (2013.01 - EP US); **F02M 26/15** (2016.02 - EP US); **F02M 26/34** (2016.02 - EP US); **F02M 26/37** (2016.02 - EP US); **F02M 26/71** (2016.02 - EP US); **F01N 2240/26** (2013.01 - EP US); **F02M 26/42** (2016.02 - EP US)

Cited by

DE102019124775A1; FR2902151A1; DE102019202383A1; DE102018215877A1; FR3085998A1; FR3121714A1; AT503458B1; EP3406874A1; IT201700055359A1; WO2013175238A1; WO2007141435A1; WO2007050563A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0980966 A1 20000223**; **EP 0980966 B1 20020508**; DE 59901383 D1 20020613; US 6250073 B1 20010626

DOCDB simple family (application)

**EP 99115344 A 19990803**; DE 59901383 T 19990803; US 37545099 A 19990817