Title (en)

Device for removing a waste gas partial stream and combustion engine with this device

Title (de)

Vorrichtung zur Entnahme eines Abgasteilstroms und Brennkraftmaschine mit dieser Vorrichtung

Title (fr)

Dispositif d'extraction d'un flux partiel de gaz d'échappement et moteur à combustion interne en étant équipé

Publication

EP 2151569 B1 20121017 (DE)

Application

EP 08161916 A 20080806

Priority

EP 08161916 A 20080806

Abstract (en)

[origin: EP2151569A1] The device has an exhaust gas removing channel (106) flowing into an exhaust pipe (105) of an internal combustion engine. An annular passage (120) is arranged directly after a valve disk (101) in a flow direction of exhaust gas, such that an exhaust gas partial flow arrives into the passage using dynamic pressure of the exhaust gas. A valve (130) is provided in the channel, and the passage is arranged in a partial cross sectional region of the exhaust pipe. An inner contour of the channel forms a diffuser in the passage. An independent claim is also included for an internal combustion engine including an auxiliary device connected to a turbine.

IPC 8 full level

F01L 1/28 (2006.01); **F01L 1/32** (2006.01); **F01L 7/00** (2006.01); **F01L 15/14** (2006.01); **F02M 25/07** (2006.01)

CPC (source: EP KR)

F01L 1/28 (2013.01 - EP); **F01L 1/32** (2013.01 - EP); **F01L 3/00** (2013.01 - KR); **F01L 3/08** (2013.01 - EP); **F01L 3/20** (2013.01 - EP); **F01N 5/04** (2013.01 - KR); **F02B 37/00** (2013.01 - KR); **F02M 26/40** (2016.02 - EP); **F02M 26/41** (2016.02 - EP); **F02M 26/615** (2016.02 - EP); F01L 1/181 (2013.01 - EP); F01L 2001/0537 (2013.01 - EP); F01L 2003/258 (2013.01 - EP); F01L 2250/02 (2013.01 - EP); F01L 2305/00 (2020.05 - EP)

Cited by

DE102010054206A1; AT519009A4; AT519009B1; DE102010054206B4; WO2012076183A1; EP3754164A1; EP3569835A1; EP3569834A1

Designated contracting state (EPC)

DE DK

DOCDB simple family (publication)

EP 2151569 A1 20100210; **EP 2151569 B1 20121017**; CN 101644213 A 20100210; CN 101644213 B 20150325; DK 2151569 T3 20121029; JP 2010038164 A 20100218; JP 2014122639 A 20140703; JP 5570773 B2 20140813; JP 5833170 B2 20151216; KR 101586499 B1 20160121; KR 20100018455 A 20100217

DOCDB simple family (application)

EP 08161916 A 20080806; CN 200910162433 A 20090804; DK 08161916 T 20080806; JP 2009179136 A 20090731; JP 2014076734 A 20140403; KR 20090067327 A 20090723