

Title (en)

Exhaust recirculation device for an internal combustion engine

Title (de)

Abgasrückführeinrichtung für eine Brennkraftmaschine

Title (fr)

Dispositif de recirculation de gaz d'échappement pour un moteur à combustion interne

Publication

EP 1223331 B1 20050316 (DE)

Application

EP 01124739 A 20011017

Priority

DE 10101412 A 20010113

Abstract (en)

[origin: EP1223331A2] An exhaust gas recirculation device (1) for an internal combustion engine comprises an exhaust gas collection line (2) from an outlet system of the engine connected via a rotary disk valve (4) to air inlet channels of the engine. The rotary disk valve has a housing (3) with a switch element corresponding to a control surface having openings to which exhaust gas control channels (5) are assigned. A drive module (6) for the rotary disk valve is provided on the housing. Preferred Features: The drive module is connected via a coupling organ to the axis of rotation of the switch element. The openings of the control surface have a definite geometric shape, e.g. round, elliptical, etc., defining a certain flow characteristic.

IPC 1-7

F02M 25/07

IPC 8 full level

F02M 25/07 (2006.01); **F02M 26/54** (2016.01); **F02M 26/70** (2016.01)

CPC (source: EP US)

F02M 26/54 (2016.02 - EP US); **F02M 26/70** (2016.02 - EP US); **F02M 26/11** (2016.02 - EP US); **F02M 26/50** (2016.02 - EP US)

Cited by

EP2143931A3; EP1338785A3; DE102008046594A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1223331 A2 20020717; **EP 1223331 A3 20040102**; **EP 1223331 B1 20050316**; DE 10101412 A1 20020718; DE 10101412 B4 20140528; DE 50105613 D1 20050421; ES 2236110 T3 20050716; US 2002092510 A1 20020718; US 6651634 B2 20031125

DOCDB simple family (application)

EP 01124739 A 20011017; DE 10101412 A 20010113; DE 50105613 T 20011017; ES 01124739 T 20011017; US 3758002 A 20020104