

Title (en)

A ventilation device

Title (de)

Belüftungsvorrichtung

Title (fr)

Dispositif de ventilation

Publication

EP 2051020 B1 20110202 (EN)

Application

EP 07075890 A 20071016

Priority

EP 07075890 A 20071016

Abstract (en)

[origin: EP2051020A1] A device is described for controlling the airflow through an airduct, the airduct having a housing, an inlet and an outlet. The device comprises a self-regulating valve having a diaphragm, the position of the diaphragm being determined by the difference between the pressure at the inlet and the pressure at the outlet. The diaphragm is rotatably suspended on a support so that, under influence of an increasing difference in pressure, the diaphragm can rotate between a minimum rotation angle and a maximum rotation angle over an intermediate rotation angle, the intermediate angle being situated between the minimum and maximum angle. The diaphragm is provided with a counterbalance and that, within the angle range between the intermediate rotation angle and the maximum rotation angle, the rotation movement of the diaphragm under influence of an increasing pressure difference is counteracted by an elastic resisting force.

IPC 8 full level

F24F 11/75 (2018.01); **F24F 13/18** (2006.01)

CPC (source: EP US)

F24F 11/75 (2017.12 - EP US); **F24F 13/18** (2013.01 - EP US)

Cited by

EP2620714A3; JP2016217642A; JP2016211785A; BE1020748A3; EP3312521A1; BE1024668B1; DE202012000618U1; EP2620714A2; EP2505930A1

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Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 2051020 A1 20090422; EP 2051020 B1 20110202; AT E497593 T1 20110215; CA 2641045 A1 20090416; DE 602007012356 D1 20110317; DK 2051020 T3 20110516; EP 2339259 A1 20110629; EP 2339259 B1 20130605; ES 2362742 T3 20110712; PL 2051020 T3 20120531; PL 2339259 T3 20140131; PT 2051020 E 20110428; RS 51851 B 20120229; US 2009098819 A1 20090416

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EP 07075890 A 20071016; AT 07075890 T 20071016; CA 2641045 A 20081015; DE 602007012356 T 20071016; DK 07075890 T 20071016; EP 11152932 A 20071016; ES 07075890 T 20071016; PL 07075890 T 20071016; PL 11152932 T 20071016; PT 07075890 T 20071016; RS P20110176 A 20071016; US 25285508 A 20081016