Title (en)

Improved air flow control device

Title (de)

Verbesserte Luftströmungsregler-Vorrichtung

Title (fr)

Dispositif régulateur de débit d'air perfectionné

Publication

EP 0764819 B1 20000329 (FR)

Application

EP 96401983 A 19960918

Priority

FR 9511047 A 19950920

Abstract (en)

[origin: EP0764819A1] The regulator consists of a single shutter (5) with a spring (9), pivoted to the forward end of a housing (1) to form a duct (2) with a section which varies with the air pressure to maintain a constant flow rate. The shutter interacts with the duct housing so that the channel through which the air flows converges in the direction of the flow for all shutter positions. The shutter extends beyond the minimal section of the canal, and the housing has a wall which faces the shutter and is inclined towards the axis of the canal from front to rear. The wall (7) can be made adjustable to vary the air flow through the duct, and the channel (8) can be made with an axis which is inclined relative to that of the housing. During operation the position of the shutter varies with the force of the aid flow through an aperture (10) beneath it, maintaining the flow through the duct at a constant rate.

IPC 1-7

F24F 11/047

IPC 8 full level

F24F 11/75 (2018.01)

CPC (source: EP)

F24F 11/75 (2017.12)

Cited by

EP1223388A3; FR2901013A1; FR3009068A1; US11193459B2; WO2019073142A1; WO2007132076A1

Designated contracting state (EPC)

BE DE GB IT NL

DOCDB simple family (publication)

EP 0764819 A1 19970326; **EP 0764819 B1 20000329**; DE 69607428 D1 20000504; DE 69607428 T2 20001019; FR 2738901 A1 19970321; FR 2738901 B1 19971121

DOCDB simple family (application)

EP 96401983 A 19960918; DE 69607428 T 19960918; FR 9511047 A 19950920