

Title (en)

Gas extraction opening with automatic adjustment and method for manufacturing such an opening

Title (de)

Gasextraktionsöffnung mit automatischer Regulierung, und Herstellungsverfahren einer solchen Öffnung

Title (fr)

Bouche d'extraction de gaz à réglage automatique et procédé de fabrication d'une telle bouche

Publication

**EP 2604942 B1 20161228 (FR)**

Application

**EP 12194694 A 20121128**

Priority

FR 1103895 A 20111216

Abstract (en)

[origin: EP2604942A1] The mouth (1) has a flexible, self-supporting and elastic membrane (6) with a wing (7) fixed to a crosspiece of a case (2). The wing overhangingly extends relative to orifices (5) of the case in a rest position in absence of an extraction gas flow (F) to bend and partially seal the orifices. The membrane has curvature and/or elasticity variable based on moisture to oppose inflection of the membrane under effect of the flow so that flow rate of the flow traversing the mouth is simultaneously variable based on moisture of the flow and a difference in pressure on both sides of a partition (3). The membrane has a support film made of a hydrophobic material and assembled with a hygrosensible film that is made of hygrosensible material e.g. poly hexamethylene adipamide. The hydrophobic material is chosen from metal, PVC and polyethylene terephthalate. An independent claim is also included for a method for manufacturing a gas extraction mouth to be mounted in an opening of a partition.

IPC 8 full level

**F24F 11/00** (2006.01); **F24F 11/75** (2018.01); **F24F 13/10** (2006.01)

CPC (source: EP US)

**F24F 11/75** (2017.12 - EP US); **F24F 13/10** (2013.01 - EP); **F24F 11/30** (2017.12 - EP); **F24F 2110/20** (2017.12 - EP)

Cited by

CN111288569A; FR3007109A1; EP2813774A3

Designated contracting state (EPC)

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DOCDB simple family (publication)

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