

Title (en)
Petrol pressure regulator.

Title (de)
Benzindruckregler.

Title (fr)
Régulateur de pression d'essence.

Publication
EP 0181242 A1 19860514 (FR)

Application
EP 85401938 A 19851004

Priority
FR 8417061 A 19841109

Abstract (en)
1. A petrol pressure regulator for supplying an internal combustion engine of an automobile vehicle of the kind controlled by differences in pressure existing at different points in the pipes of the engine comprising a housing in which several chambers (2 to 5) are provided, separated by flexible membranes (6 to 8) stiffened in their central part by small cups (14 to 19) connected to one another, and of which a first flexible membrane (6) is rigid with a valve (9) the movement of which it controls relative to the aperture of a pipe (10) opening into one of the chambers (2), the membranes (6 to 8) being held parallel to one another by means of bracing pieces placed, during assembly of the housing at the time of closing the housing, in two of the consecutive chambers (3 and 4), each bracing piece being applied on both sides of the chamber containing it against the stiffening cups (15 and 16, 17 and 18) of the membranes delimiting the said chambers (3 and 4), the regulator being characterized in that the bracing pieces placed in the two consecutive chambers (3 and 4) consist of the small cups (15 and 18) themselves, the free ends of which are applied against the small cups (16, 17) facing them and rigid with a second membrane (7) defining the other partition of the chamber concerned, wedges (30) for positioning the bracing cups (15 and 18) being disposed on the cups (16, 17) facing them.

Abstract (fr)
Ce régulateur est plus particulièrement adapté pour la commande de l'alimentation en essence d'un moteur à combustion interne du type turbo-compressé à alimentation dite "monopoint" pour véhicule automobile et comporte un clapet (9) de commande de la pression d'essence commandé par une pluralité de membranes souples (6 à 8) maintenues parallèles entre elles, et d'orientation constante par rapport au boîtier (1) par des entretoises définies par les coupelles (15 et 18) de rigidification des parties centrales des membranes (6 et 8).

IPC 1-7
F02M 69/00

IPC 8 full level
F02M 69/20 (2006.01); **F02M 69/54** (2006.01)

CPC (source: EP)
F02M 69/20 (2013.01); **F02M 69/54** (2013.01)

Citation (search report)
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• [A] US 4359031 A 19821116 - STOLTMAN DONALD D, et al
• [A] US 4231347 A 19801104 - OHUMI TAKEHARU, et al

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CN106837626A

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DE GB IT

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EP 0181242 A1 19860514; **EP 0181242 B1 19880608**; DE 3563239 D1 19880714; ES 548726 A0 19861116; ES 8701302 A1 19861116; FR 2573131 A1 19860516; FR 2573131 B1 19861226

DOCDB simple family (application)
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