

Title (en)

Pressure regulator for regulating the pressure inside the fuel supply manifold of an internal combustion engine fuel supply device.

Title (de)

Druckregler für den Druck innerhalb der Brennstoffspeisesammelleitung einer Brennstoffspeisevorrichtung eines Verbrennungsmotors.

Title (fr)

Régulateur pour la pression dans la tubulure d'alimentation en combustible d'un dispositif d'alimentation en combustible d'un moteur à combustion interne.

Publication

EP 0399402 A1 19901128 (EN)

Application

EP 90109460 A 19900518

Priority

IT 5313089 U 19890526

Abstract (en)

A device comprising a cup-shaped body (1) defining a fuel chamber (4) communicating with a fuel inlet hole (5) and with a fuel outlet hole (6), which outlet hole (6) is controlled by a plunger (7) connected to a deformable diaphragm (8) subjected to the action of a spring (9) designed to normally maintain the plunger (7) against a seat (10) and so close the outlet hole (6). The fuel inlet hole (5) communicates with an inlet fitting (12) projecting from the bottom wall (3) of the body (1) and connectable in fluidtight manner inside a seat (13) on the manifold. The fuel outlet hole (6) communicates with an outlet fitting (15) projecting from the lateral surface (16) of the body (1) and having its axis perpendicular to the longitudinal axis of the body (1).

IPC 1-7

F02M 69/54

IPC 8 full level

F02M 69/54 (2006.01)

CPC (source: EP)

F02M 69/54 (2013.01)

Citation (search report)

- [A] EP 0233697 A1 19870826 - GEN MOTORS CORP [US]
- [A] GB 2197685 A 19880525 - WEBER SRL
- [A] US 4570601 A 19860218 - ITO MASAKI [JP], et al
- [A] EP 0116742 A1 19840829 - GEN MOTORS CORP [US]
- [A] DE 3505625 A1 19860821 - BOSCH GMBH ROBERT [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 60 (M-796)(3408) 10 February 1989, & JP-A-63 263266 (AISAN) 31 October 1988,

Designated contracting state (EPC)

DE ES FR GB SE

DOCDB simple family (publication)

EP 0399402 A1 19901128; EP 0399402 B1 19930728; BR 9002399 A 19910806; DE 69002390 D1 19930902; DE 69002390 T2 19931118; ES 2052096 T3 19940701; IT 217084 Z2 19911029; IT 8953130 V0 19890526

DOCDB simple family (application)

EP 90109460 A 19900518; BR 9002399 A 19900522; DE 69002390 T 19900518; ES 90109460 T 19900518; IT 5313089 U 19890526