

Title (en)
PRESSURE REGULATOR FOR GASEOUS MEDIA

Title (de)
DRUCKREGLER FÜR GASFÖRMIGE MEDIEN

Title (fr)
RÉGULATEUR DE PRESSION POUR DES SUBSTANCES GAZEUSES

Publication
EP 2010983 A2 20090107 (DE)

Application
EP 07727841 A 20070405

Priority
• EP 2007053373 W 20070405
• DE 102006019404 A 20060424

Abstract (en)
[origin: WO2007122092A2] Disclosed is a pressure regulator which can be used particularly in a CNG-operated motor vehicle as an electronically controlled pressure reducer for maintaining the gas pressure constant on the injection valve used for filling the respective cylinder. Said pressure regulator is composed of a control unit (1), a pressure reducer (3) that is controlled by the control unit (1), and a throttle (2) which connects the gas outlets (20, 40) of the working chamber (17) of the control unit (1) and the pressure reducer (3). A piezoelectric actuator (11) which affects the valve (21, 22) of an overflow device (14) makes it possible to specifically modify the gas pressure (P2) in the working chamber (17) of the control unit (1) and simultaneously influence the position of the valve (38, 39) of the overflow device (33) of the pressure reducer (3), thus allowing the output pressure (Pout) of the pressure reducer (3) to be adjusted to a predefined desired value.

IPC 8 full level
G05D 16/20 (2006.01)

CPC (source: EP KR US)
F02D 19/022 (2013.01 - EP US); **F02D 19/027** (2013.01 - EP US); **F02M 21/0239** (2013.01 - EP US); **G05D 7/06** (2013.01 - KR); **G05D 16/2097** (2018.12 - EP US); **F02M 21/0215** (2013.01 - EP US); **Y02T 10/30** (2013.01 - EP US)

Citation (search report)
See references of WO 2007122092A2

Designated contracting state (EPC)
DE NL

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
DE 102006019404 A1 20071025; EP 2010983 A2 20090107; KR 101483958 B1 20150119; KR 20080112411 A 20081224; US 2009065720 A1 20090312; US 8096522 B2 20120117; WO 2007122092 A2 20071101; WO 2007122092 A3 20071213

DOCDB simple family (application)
DE 102006019404 A 20060424; EP 07727841 A 20070405; EP 2007053373 W 20070405; KR 20087028646 A 20070405; US 29777307 A 20070405