

Title (en)

METHOD FOR OPERATING A FUEL SUPPLY SYSTEM, AND FUEL SUPPLY SYSTEM

Title (de)

VERFAHREN ZUM BETREIBEN EINES KRAFTSTOFFVERSORGUNGSSYSTEMS SOWIE KRAFTSTOFFVERSORGUNGSSYSTEM

Title (fr)

PROCÉDÉ POUR FAIRE FONCTIONNER UN SYSTÈME D'ALIMENTATION EN CARBURANT AINSI QUE SYSTÈME D'ALIMENTATION EN CARBURANT

Publication

**EP 3411583 A1 20181212 (DE)**

Application

**EP 17700027 A 20170102**

Priority

- DE 102016201511 A 20160202
- EP 2017050030 W 20170102

Abstract (en)

[origin: WO2017133854A1] The invention relates to a method for operating a fuel supply system, by means of which an internal combustion engine can be supplied with a gaseous fuel and with a liquid fuel. The gaseous fuel is drawn from a first storage line (1) and is injected directly into a combustion chamber of the internal combustion engine by means of an injection valve (2) connected to the first storage line (1). The pressure in the first storage line (1) is regulated by a pressure regulating device (3), which comprises at least one hydraulically controlled valve (4, 5), on the basis of a pressure in an additional storage line (6) for the liquid fuel. According to the invention, a pressure which is reduced compared to the pressure in the additional storage line (6) is used as the control pressure in order to hydraulically control the valve (4, 5). A throttle (7) is used to reduce the pressure, said throttle being arranged in a branch line (8) which connects the valve (4, 5) to the additional storage line (6). The invention further relates to a fuel supply system which is suitable for carrying out the method.

IPC 8 full level

**F02D 41/38** (2006.01); **F02D 19/02** (2006.01); **F02D 19/06** (2006.01); **F02D 41/00** (2006.01); **F02M 21/02** (2006.01)

CPC (source: EP)

**F02D 19/0605** (2013.01); **F02D 19/0647** (2013.01); **F02D 19/0678** (2013.01); **F02D 41/0025** (2013.01); **F02D 41/0027** (2013.01); **F02D 41/3836** (2013.01); **F02M 21/0275** (2013.01); **F02D 19/0689** (2013.01); **F02D 19/0694** (2013.01); **Y02T 10/30** (2013.01)

Citation (search report)

See references of WO 2017133854A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102016201511 A1 20170803**; CN 108699992 A 20181023; CN 108699992 B 20220208; EP 3411583 A1 20181212; WO 2017133854 A1 20170810

DOCDB simple family (application)

**DE 102016201511 A 20160202**; CN 201780009495 A 20170102; EP 17700027 A 20170102; EP 2017050030 W 20170102