

Title (en)

VALVE FOR DOSED FEEDING OF VAPORISED FUEL FROM A FUEL TANK OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VENTIL ZUM DOSIERTEN EINLEITEN VON AUS EINEM BRENNSTOFFTANK EINER BRENNKRAFTMASCHINE VERFLÜCHTIGTEM BRENNSTOFFDAMPF

Title (fr)

SOUPAPE POUR DOSER L'INJECTION D'UNE VAPEUR DE CARBURANT PROVENANT DU RESERVOIR DE CARBURANT D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 0800621 A1 19971015 (DE)

Application

EP 96918613 A 19960626

Priority

- DE 9601120 W 19960626
- DE 19540021 A 19951027

Abstract (en)

[origin: US5791318A] PCT No. PCT/DE96/01120 Sec. 371 Date Jun. 24, 1997 Sec. 102(e) Date Jun. 24, 1997 PCT Filed Jun. 26, 1996 PCT Pub. No. WO97/16640 PCT Pub. Date May 9, 1997A valve is provided for a metered introduction of fuel vapor evaporated from a fuel tank of an internal combustion engine into an intake tube of the engine. A valve housing which has an inflow fitting for connection to a ventilation fitting of the fuel tank or an adsorption filter for evaporated fuel vapors. The valve housing is connected to the fuel tank and has an outflow fitting for connection to the intake tube. An armature is provided inside the valve housing in which the armature is moved by an electromagnet and which is pressed against a valve seat by a valve spring when the electromagnet is without current. The armature closes a metering opening of a flow connection from the inflow fitting to the outflow fitting, and opens this flow connection to a greater or lesser degree when the electromagnet is supplied with current, wherein the metering opening has a V-shaped cross sectional area for improved metering. The valve according to the invention is suited for introducing fuel vapor evaporated from a fuel tank of a mixture compressing internal combustion engine with externally supplied ignition into an intake tube of the engine.

IPC 1-7

F02M 25/08

IPC 8 full level

F02M 25/08 (2006.01); **F16K 31/06** (2006.01)

CPC (source: EP KR US)

F02M 25/08 (2013.01 - KR); **F02M 25/0836** (2013.01 - EP US); **F02M 63/0017** (2013.01 - EP US); **F02M 63/004** (2013.01 - EP US); **F02M 2025/0845** (2013.01 - EP US)

Citation (search report)

See references of WO 9716640A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

US 5791318 A 19980811; CN 1166195 A 19971126; DE 19540021 A1 19970430; DE 59600906 D1 19990114; EP 0800621 A1 19971015; EP 0800621 B1 19981202; ES 2126404 T3 19990316; JP H10512346 A 19981124; KR 980700514 A 19980330; WO 9716640 A1 19970509

DOCDB simple family (application)

US 86004697 A 19970624; CN 96191281 A 19960626; DE 19540021 A 19951027; DE 59600906 T 19960626; DE 9601120 W 19960626; EP 96918613 A 19960626; ES 96918613 T 19960626; JP 51696297 A 19960626; KR 19970704163 A 19970620