

Title (en)

GAS METERING VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)

GASDOSIERVENTIL FÜR BRENNKRAFTMASCHINEN

Title (fr)

SOUPAPE DE MESURE DE GAZ POUR MOTEURS À COMBUSTION INTERNE

Publication

**EP 4097346 A1 20221207 (DE)**

Application

**EP 21703170 A 20210127**

Priority

- DE 102020201168 A 20200131
- DE 102020201973 A 20200218
- EP 2021051857 W 20210127

Abstract (en)

[origin: WO2021151941A1] A gas metering valve for an internal combustion engine with a housing (1), in which a gas chamber (2) is configured which has an inlet opening (5) and an outlet opening (6). A movable valve element (8) is arranged in the gas chamber (2), which valve element (8) can be moved by way of an electric actuator (16) counter to the force of a restoring spring (17), and which valve element (8) interacts with a valve seat (11) in order to open and close the inlet opening (5). A shut-off valve (25) is arranged between the valve element (8) and the outlet opening (6), which shut-off valve (25) opens in the flow direction (15) to the outlet opening (6) and shuts off the opposite flow direction.

IPC 8 full level

**F02M 21/02** (2006.01); **F02M 61/04** (2006.01); **F02M 61/08** (2006.01)

CPC (source: EP KR US)

**F02M 21/023** (2013.01 - EP); **F02M 21/0242** (2013.01 - EP KR US); **F02M 21/0257** (2013.01 - EP); **F02M 21/026** (2013.01 - EP); **F02M 21/0263** (2013.01 - US); **F02M 21/0269** (2013.01 - EP KR); **F02M 21/0272** (2013.01 - EP KR); **F02M 21/0275** (2013.01 - EP KR); **F02M 21/0293** (2013.01 - EP KR); **F02M 21/0293** (2013.01 - US); **Y02T 10/30** (2013.01 - EP KR)

Designated contracting state (EPC)

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**DE 102020201973 A 20200218**; CN 202180011883 A 20210127; EP 2021051857 W 20210127; EP 21703170 A 20210127; JP 2022546528 A 20210127; KR 20227029256 A 20210127; US 202117794372 A 20210127