

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

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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)

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

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