

Title (en)

Apparatus and method for treating gas to be delivered to a combustion process in an internal combustion engine

Title (de)

Vorrichtung und Verfahren zur Verarbeitung von Gas, das einem Verbrennungsmotor zuzuführen ist

Title (fr)

Appareil et procédé de traitement de gaz pour être délivré à un processus de combustion dans un moteur à combustion interne

Publication

EP 2957757 B1 20180808 (EN)

Application

EP 14173283 A 20140620

Priority

EP 14173283 A 20140620

Abstract (en)

[origin: EP2957757A1] The invention relates to an Apparatus for treating gas to be delivered to a combustion process in an internal combustion engine comprises a canister (16) having an inlet (18) for introducing gas (12), an outlet (20) for allowing gas (14) to flow out, a permeable zeolite based charge (22) arranged between the inlet and the outlet and being able to absorb and desorb water. The apparatus further comprises a first temperature sensor (24) arranged in thermal contact with the zeolite based charge, a second temperature sensor (26) that is arranged upstream of the canister, and a control unit (28) that is adapted to determine whether the charge is in an absorbing state, a desorbing state or in a transition state between the absorbing state and the desorbing state, based on signals of the first temperature sensor and the second temperature sensor, and to control an amount of recirculated exhaust gas based on the determined state. Further disclosed is a method utilizing said apparatus

IPC 8 full level

F02M 26/15 (2016.01); **F02M 26/35** (2016.01); **F02M 26/47** (2016.01)

CPC (source: EP)

F02M 26/15 (2016.02); **F02M 26/35** (2016.02); **F02M 26/47** (2016.02)

Cited by

GB2546488A; GB2546488B; JP2017137769A; US9689354B1; DE102017200541A1

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

DOCDB simple family (publication)

EP 2957757 A1 20151223; EP 2957757 B1 20180808

DOCDB simple family (application)

EP 14173283 A 20140620