

Title (en)
Diagnosis of gas leakage

Title (de)
Diagnose von Gasaustritt

Title (fr)
Diagnostic de fuite de gaz

Publication
EP 1998037 B1 20141210 (EN)

Application
EP 08105249 A 20060904

Priority
• EP 08105249 A 20060904
• EP 06120073 A 20060904

Abstract (en)
[origin: EP1895144A1] The invention relates to a method for estimating a leakage area in a vehicle tank assembly (10). The tank assembly (10) comprises a tank (12), a gas pump (26) in fluid communication with the rest of the tank assembly (10) and means (30) for determining a pressure in the tank assembly (10) and a gas mass flow through the gas pump (26). The method comprises the step of varying the pressure in the tank assembly (10) by applying the gas mass flow through the gas pump (26) during an area estimation time period. According to the invention, the method further comprises the steps of: - for each of a plurality of time instants during the area estimation time period, establishing an instantaneous gas mass flow relation of the gas in the tank assembly (10) in which relation the leakage area is an unknown parameter; and - estimating the leakage area by utilizing the instantaneous gas mass flow relations.

IPC 8 full level
F02M 25/08 (2006.01)

CPC (source: EP)
F02M 25/0809 (2013.01); **F02M 25/0818** (2013.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1895144 A1 20080305; EP 1895144 B1 20100414; DE 602006013630 D1 20100527; EP 1998037 A2 20081203; EP 1998037 A3 20130529; EP 1998037 B1 20141210

DOCDB simple family (application)
EP 06120073 A 20060904; DE 602006013630 T 20060904; EP 08105249 A 20060904