

Title (en)

HEATABLE TANK LEAKAGE DIAGNOSIS UNIT, PARTICULARLY FOR MOTOR VEHICLES

Title (de)

BEHEIZBARE TANKLECKDIAGNOSEEINHEIT INSBESONDERE FÜR KRAFTFAHRZEUGE

Title (fr)

UNITE DE DETECTION DE FUITE DE RESERVOIR CHAUFFANTE, NOTAMMENT POUR AUTOMOBILES

Publication

EP 1377741 B1 20070110 (DE)

Application

EP 02735018 A 20020327

Priority

- DE 0201108 W 20020327
- DE 10116693 A 20010404

Abstract (en)

[origin: WO02081898A1] The invention relates to a method and device for conducting a leak test of a reservoir (10), especially of a tank ventilation system of a motor vehicle. According to the invention, the reservoir (10) is subjected to the action of a pressure generated by means of a motor-driven pressure source (30), whereby the motor current is determined at the same time. A reference leak (36), which can be operated as desired by means of a change-over valve (32), is subjected to the action of a corresponding pressure, whereby the motor current is additionally determined at the same time. The determined electric characteristic quantity and the determined reference characteristic quantity are compared and the existence of a leak is established from this comparison. The aim of the invention is to prevent moisture from entering the pressure source (30). To this end, at least the pressure source (30) is heated at least occasionally. The heating is preferably effected by controlling the change-over valve (32) with a suitable pulse duty factor. In order to prevent moisture from entering the pressure source (30), a check valve (44) is provided that is integrated in the connection part of the pressure source (30).

IPC 8 full level

F02M 25/08 (2006.01); **G01M 3/26** (2006.01)

CPC (source: EP US)

F02M 25/0818 (2013.01 - EP US); **F02M 25/08** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR SE

DOCDB simple family (publication)

WO 02081898 A1 20021017; DE 10116693 A1 20021017; DE 50209230 D1 20070222; EP 1377741 A1 20040107; EP 1377741 B1 20070110; JP 2004523690 A 20040805; JP 4342180 B2 20091014; US 2004129066 A1 20040708; US 6959587 B2 20051101

DOCDB simple family (application)

DE 0201108 W 20020327; DE 10116693 A 20010404; DE 50209230 T 20020327; EP 02735018 A 20020327; JP 2002579641 A 20020327; US 47412204 A 20040210