

Title (en)

Fuel tank ventilation system for a vehicle with a combustion engine

Title (de)

Tankentlüftungsanlage für ein Fahrzeug mit Verbrennungsmotor

Title (fr)

Système d'aération d'un réservoir pour véhicule à moteur à combustion

Publication

EP 0840002 A3 19981007 (DE)

Application

EP 97118297 A 19971022

Priority

DE 19645382 A 19961104

Abstract (en)

[origin: EP0840002A2] The unit comprises a tank venting conduit (17) and a by-pass conduit (19) parallelly-connected with a pump (21). In a conduit section (22) parallelly connected to the by-pass conduit, a check valve (23) is provided. Upstream from a suction tube (18) before the by-pass conduit and the parallel conduit section, a regenerating valve (24) is provided. The pump (21) is provided in a by-pass conduit (19), which branches from the suction tube and is coupled to a suction nozzle to the tank venting conduit. Between the suction nozzle and the adsorption filter (14) a regenerating valve is fitted.

IPC 1-7

F02M 25/08

IPC 8 full level

F02M 25/08 (2006.01)

CPC (source: EP US)

F02M 25/089 (2013.01 - EP US)

Citation (search report)

- [X] DE 4311316 C1 19940331 - FREUDENBERG CARL FA [DE]
- [X] DE 3832500 C2 19890706
- [X] US 5544483 A 19960813 - HEUER KARSTEN [DE]
- [XA] US 5273020 A 19931228 - HAYAMI TOSHIFUMI [JP]
- [A] DE 4316392 A1 19931202 - ATLAS FAHRZEUGTECHNIK GMBH [DE]
- [A] US 5183023 A 19930202 - HANSON JOHN D [US]

Cited by

CN102305151A; US6196202B1; US8555862B2; WO9906688A1; WO0173283A1; WO2010097067A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0840002 A2 19980506; EP 0840002 A3 19981007; DE 19645382 A1 19980514; DE 19645382 C2 19981008; US 5918580 A 19990706

DOCDB simple family (application)

EP 97118297 A 19971022; DE 19645382 A 19961104; US 96290197 A 19971103