

Title (en)  
PROCESS AND DEVICE FOR TANK VENTILATION

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR TANKENTLÜFTUNG

Title (fr)  
PROCEDE ET DISPOSITIF POUR LA VENTILATION DE RESERVOIRS

Publication  
**EP 0576448 B1 19970709 (DE)**

Application  
**EP 92905556 A 19920221**

Priority  
• DE 9200127 W 19920221  
• DE 4109401 A 19910322

Abstract (en)  
[origin: DE4109401A1] A process for alternating execution of phases with and without tank ventilation during the operation of an internal combustion engine (10) with a tank ventilator (21, 24-26) is characterized in that the ratio of the time-intervals with and without tank ventilation is chosen so that it is dependent on operating data of the engine or of the tank ventilator. Preferably the quantity measured is a measure of the quantity of fuel to be regenerated during tank ventilation, and the above-mentioned ratio is increased with respect to an initial ratio in favour of the tank ventilation time-interval if the value of the measured quantity exceeds an upper limit (Dp-SMW; FTEA-SWU). This process makes it possible to equip the corresponding device with an adsorption filter (24) and a tank ventilation valve (25) for smaller throughputs than hitherto, without the risk of fuel vapours escaping into the atmosphere. If large quantities of fuel vapor are produced, the tank ventilation time-interval is increased with respect to the basic adaptation time-interval. The smaller adsorption filter is therefore still adequately regenerated despite the smaller cross-section of the tank ventilation valve.

IPC 1-7  
**F02M 25/08**; **F02D 35/00**

IPC 8 full level  
**F02D 35/00** (2006.01); **F02D 41/00** (2006.01); **F02M 25/08** (2006.01); **F02M 37/00** (2006.01)

CPC (source: EP US)  
**F02D 41/004** (2013.01 - EP US); **F02M 25/08** (2013.01 - EP US); **F02M 25/0809** (2013.01 - EP US)

Citation (examination)  
Patent Abstracts of Japan, vol. 9, no. 202 (M-405)[1925], 20. August 1985; & JP-A-6065245 (TOYOTA) 15. April 1985

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WO2005116427A1; DE10319257A1

Designated contracting state (EPC)  
DE FR

DOCDB simple family (publication)  
**WO 9216734 A2 19921001**; **WO 9216734 A3 19921112**; DE 4109401 A1 19920924; DE 59208691 D1 19970814; EP 0576448 A1 19940105; EP 0576448 B1 19970709; JP 3396220 B2 20030414; JP H06505782 A 19940630; US 5372117 A 19941213

DOCDB simple family (application)  
**DE 9200127 W 19920221**; DE 4109401 A 19910322; DE 59208691 T 19920221; EP 92905556 A 19920221; JP 50485092 A 19920221; US 11914493 A 19930922