

Title (en)

DEVICE FOR CONTROLLED INTRODUCTION OF VOLATILE FUEL COMPONENTS INTO THE SUCTION PIPE OF AN INTERNAL COMBUSTION ENGINE

Publication

EP 0507997 A3 19921125 (DE)

Application

EP 91121309 A 19911212

Priority

DE 4111259 A 19910408

Abstract (en)

[origin: US5226397A] An apparatus for temporarily storing and feeding in measured quantities the volatile fuel components found in the free space of a tank installation into the intake tube of an internal combustion engine includes a vent line which connects the free space to the atmosphere. A storage chamber with an absorption element is arranged in the vent line. A line connects the storage chamber to the intake tube and is capable of being sealed by a valve. A throttle valve is supported on a drive shaft and is configured in the intake tube. The valve includes an actuator, which is capable of being operated by the drive shaft.

IPC 1-7

F02M 25/08

IPC 8 full level

B60K 15/077 (2006.01); **F02D 9/02** (2006.01); **F02M 25/08** (2006.01)

CPC (source: EP US)

F02M 25/0836 (2013.01 - EP US)

Citation (search report)

- [YD] DE 3802664 C1 19881013
- [Y] GB 1256158 A 19711208 - SIBE [FR]

Designated contracting state (EPC)

AT DE ES FR GB IT NL SE

DOCDB simple family (publication)

US 5226397 A 19930713; AT E103671 T1 19940415; BR 9201006 A 19921201; CA 2065541 A1 19921009; CA 2065541 C 19961112; DE 4111259 C1 19920423; DE 59101284 D1 19940505; EP 0507997 A2 19921014; EP 0507997 A3 19921125; EP 0507997 B1 19940330; ES 2051066 T3 19940601; JP H05106522 A 19930427; JP H086648 B2 19960129; MX 9201583 A 19921001

DOCDB simple family (application)

US 86190292 A 19920401; AT 91121309 T 19911212; BR 9201006 A 19920324; CA 2065541 A 19920407; DE 4111259 A 19910408; DE 59101284 T 19911212; EP 91121309 A 19911212; ES 91121309 T 19911212; JP 8694592 A 19920408; MX 9201583 A 19920407