

Title (en)  
ACTIVATED CARBON FILTER FOR MOTOR VEHICLES

Title (de)  
AKTIVKOHLEFILTER FÜR KRAFTFAHRZEUGE

Title (fr)  
FILTRE A CHARBON ACTIF POUR VEHICULES A MOTEUR

Publication  
**EP 0719384 A1 19960703 (DE)**

Application  
**EP 94926159 A 19940806**

Priority  
• DE 9313840 U 19930913  
• EP 9402615 W 19940806

Abstract (en)  
[origin: WO9508059A1] An activated carbon filter (10) for motor vehicles is used to adsorb the fuel vapours produced in the tank and possibly in the float chamber of the carburettor of a motor vehicle and to desorb and return said vapours to the combustion chambers of the engine of the motor vehicle. A space for receiving activated carbon in bulk is provided in a housing (12) closed on all sides. The housing (12) has a tank inlet (22) that may be connected to a duct that leads to the motor vehicle tank, an engine outlet (24) for returning the fuel vapours that may be connected to a duct that leads to the suction pipe or air filter housing of the engine, and a fresh air inlet (20) connected to the surrounding atmosphere. The tank inlet (22) and the engine outlet (24) are preferably provided on the same face of the housing (12), whereas the fresh air inlet (20) is arranged in an area of the housing (12) separated from the engine outlet (24) by the activated carbon in bulk. The ventilation current loaded with water, water droplets or steam or the fresh air current are guided into a water collecting vat (40) arranged upstream of the space receiving activated carbon in the housing (12). The water collecting vat (40) is linked by its top side to the activated carbon-receiving space. A floating valve body (46) arranged in the collecting vat (40) floats on the water that is collected in the collecting vat (40), closing the connection with the activated carbon-receiving space or opening an outflow into the surrounding atmosphere that bypasses the activated carbon-receiving space.

IPC 1-7  
**F02M 25/08**; **B01D 35/04**

IPC 8 full level  
**B01D 35/04** (2006.01); **F02M 25/08** (2006.01)

CPC (source: EP)  
**F02M 25/0854** (2013.01)

Citation (search report)  
See references of WO 9508059A1

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI LU NL PT SE

DOCDB simple family (publication)  
**WO 9508059 A1 19950323**; AT E159323 T1 19971115; CZ 284270 B6 19981014; CZ 75096 A3 19960717; DE 59404367 D1 19971120; DE 9313840 U1 19931202; EP 0719384 A1 19960703; EP 0719384 B1 19971015; ES 2109727 T3 19980116; HU 218772 B 20001228; HU 9600400 D0 19960429; HU T76940 A 19980128; PL 173945 B1 19980529; PL 313169 A1 19960610

DOCDB simple family (application)  
**EP 9402615 W 19940806**; AT 94926159 T 19940806; CZ 75096 A 19940806; DE 59404367 T 19940806; DE 9313840 U 19930913; EP 94926159 A 19940806; ES 94926159 T 19940806; HU 9600400 A 19940806; PL 31316994 A 19940806