

Title (en)  
FILTERING SYSTEM FOR REMOVING SOOT PARTICLES FROM THE EXHAUST GAS OF A COMBUSTION ENGINE

Title (de)  
FILTERANORDNUNG ZUM ENTFERNEN VON RUSSPARTIKELN AUS ABGASEN EINER VERBRENNUNGSKRAFTMASCHINE

Title (fr)  
DISPOSITIF DE FILTRATION POUR ELIMINER LES PARTICULES DE SUIE DES GAZ D'ECHAPPEMENT D'UN MOTEUR A COMBUSTION INTERNE

Publication  
**EP 0585432 B1 19960214 (DE)**

Application  
**EP 93905339 A 19930311**

Priority  
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• EP 9300553 W 19930311

Abstract (en)  
[origin: WO9319288A1] A filtering system for removing soot particles from the exhaust gas of a combustion engine, such as a diesel engine, has at least one filtering unit (6) made of porous material and comprising filtering ducts (5) in a honeycomb configuration. A resistor-heating element (1) is respectively arranged in the vicinity of the inlet aperture of the filter ducts (5), which are open on the gas inlet side, and serves several inlet apertures; the said heating element protrudes into the filter ducts as a loop and is connected via feed and discharge lines to electrical power supply. To prevent the resistor heating elements (1) from coming adrift, the surface of the filter ducts (5) and the loop-shaped heating element (1) therein are designed in such a way that their resistance to any movement of the heating loops out of the filter duct (5) is at least as great as the resistance of the loops to being pushed into the duct (5).

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