

Title (en)

DEVICE FOR THE CLEANING OF EXHAUST GASES FROM INTERNAL COMBUSTION ENGINES

Title (de)

VORRICHTUNG ZUM REINIGEN VON ABGASEN AUS VERBRENNUNGSKRAFTMASCHINEN

Title (fr)

DISPOSITIF DE PURIFICATION DES GAZ D'ECHAPPEMENT D'UN MOTEUR A COMBUSTION INTERNE

Publication

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Application

EP 97904288 A 19970210

Priority

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- AT 24696 A 19960212

Abstract (en)

[origin: WO9730274A1] The invention relates to a device for the cleaning of exhaust gases from internal combustion engines, in particular a diesel exhaust soot filter. Said device has a discharge electrode (8), a counterelectrode (28) opposite thereto for electrical charging of the exhaust gas components, a ceramic structure (1) with a circular cross-section and ducts (20) extending therethrough in the direction of flow, and an internal electrode (5) at high voltage. This electrode is arranged on the inner cylinder wall (21) of the ceramic structure (1) and creates an electrical field at right angles to the ducts (20) passing through said ceramic structure. The soot particles are deposited and oxidised on the walls of the ducts (20), and a separation is provided to prevent flow through the hollow internal space (22) of the ceramic structure (1). To prevent the formation of conductive soot bridges between high-voltage-conducting components and earth the separation of the hollow internal space (22) of the ceramic structure (1) is an electrical insulator, preferably a ceramic stopper (4), arranged at the inlet side of the gas stream.

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IPC 8 full level

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Cited by

CN107684976A; AT500959A1; AT500959B1; WO2006050546A1; US7776140B2; EP1225316A2; TWI678233B

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