

Title (en)

Apparatus and method for removing particulate matter from the exhaust gases of an internal combustion engine.

Title (de)

Apparat und Methode zum Entfernen von Teilchen aus den Abgasen einer Verbrennungskraftmaschine.

Title (fr)

Appareil et méthode pour éliminer des particules des gaz d'échappement d'un moteur à combustion interne.

Publication

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Application

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Abstract (en)

The apparatus for removing particulate matter from exhaust gases includes a filter 6 for trapping particulate matter carried by the gases. A microwave generator 8 is arranged to irradiate the upstream face 10 of the filter 6, heating and oxidising particulate matter trapped in only a region adjacent that face. The heated zone then travels through the filter 6, regenerating the whole filter.

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Cited by

EP0465938A3; CN114215630A; EP1541819A1; FR2809766A1; EP0412345A1; US5052178A; US11215102B2; US10425170B2; US7679374B2; WO2007130896A3; WO2011159593A3; WO2005056989A1; WO03029621A1; US11255799B2; US11543365B2; US10118119B2; US10260400B2; US10799826B2; US8384396B2; US9400297B2; US8384397B2; US9399185B2; US10309953B2

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