

Title (en)

A regenerable filter for the exhaust gas of an internal-combustion engine

Title (de)

Regenerierbarer Filter für die Abgase eines Verbrennungsmotors

Title (fr)

Filtre régénérable pour les gaz d'échappement d'un moteur à combustion interne

Publication

EP 0599323 B1 19970212 (EN)

Application

EP 93119035 A 19931125

Priority

IT TO920956 A 19921126

Abstract (en)

[origin: EP0599323A1] A filter cartridge (23) comprises a wall (24) formed of a porous and electrically conductive material. Two electrodes (29, 31) of opposite polarity are connected to two parts (32, 33) of the wall (24), which are mutually positioned so that, by supplying electrical energy to the two electrodes (29,31), current is induced to flow along an oblong zone (36) of the wall (24) itself thus bringing about the combustion of the residual products of the combustion of the gas present in said zone (36), and thus initiating the regeneration of the cartridge (23). The porous material is preferably formed of partly sintered and/or catalysed metallic powders or fibres. <IMAGE> <IMAGE>

IPC 1-7

F01N 3/02

IPC 8 full level

F01N 3/022 (2006.01); **F01N 3/027** (2006.01); **F01N 3/021** (2006.01)

CPC (source: EP)

F01N 3/0217 (2013.01); **F01N 3/022** (2013.01); **F01N 3/027** (2013.01); **F01N 2330/10** (2013.01); **F01N 2330/14** (2013.01)

Cited by

EP0764455A3; AU698568B2; US5873918A; EP1967712A3; WO0238245A1; WO9702411A1; EP1225316A2; WO9915257A1; EP1967712A2; US8761586B2; KR100406295B1

Designated contracting state (EPC)

CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

EP 0599323 A1 19940601; **EP 0599323 B1 19970212**; DE 69308107 D1 19970327; DE 69308107 T2 19970626; ES 2097963 T3 19970416; IT 1261725 B 19960530; IT TO920956 A0 19921126; IT TO920956 A1 19940527

DOCDB simple family (application)

EP 93119035 A 19931125; DE 69308107 T 19931125; ES 93119035 T 19931125; IT TO920956 A 19921126