Title (en)

PARTICULATE TRAP SYSTEM FOR ENGINE EXHAUST USING ELECTRICALLY POWERED REGENERATION.

Title (de)

ABGASPARTIKELABSCHEIDSYSTEM MIT ELEKTRISCHER REGENERATIONSANLAGE.

Title (fr)

SYSTEME DE PIEGE A PARTICULES POUR GAZ D'ECHAPPEMENT DE MOTEUR UTILISANT UNE REGENERATION A ALIMENTATION ELECTRIQUE.

Publication

EP 0168387 A4 19860516 (EN)

Application

EP 84900579 A 19831227

Priority

US 8302044 W 19831227

Abstract (en)

[origin: WO8502882A1] An apparatus which is operative to remove oxidizable particulates from the exhaust gas of an engine. It has a particulate filter trap (C-1) disposed in a stream of exhaust gases from the engine (A), and has electrically heated elements (25) effective, when at least a portion of the stream of exhaust gases is displaced with a fluid medium for transferring heat between the elements and the collected particulates, to promote oxidation of the particulates collected in the filter trap. The electrically heated elements are supplied with energy generated by an alternator (24) driven by the engine; the elements are first heated to an incineration temperature for the particulates in the absence of gas flow, and heating of the elements is continued in the presence of a flow of an oxygen carrying heat transfer medium to promote complete oxidation of the particulates.

IPC 1-7

F01N 3/02

IPC 8 full level

F01N 3/02 (2006.01); **F01N 3/027** (2006.01); **F01N 3/032** (2006.01); **F01N 9/00** (2006.01)

CPC (source: EP)

F01N 3/027 (2013.01); **F01N 3/032** (2013.01); **F01N 9/002** (2013.01); Y02T 10/40 (2013.01)

Citation (search report)

- [A] US 3043096 A 19620710 - MCLOUGHLIN JAMES H
- See references of WO 8502882A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 8502882 A1 19850704; CA 1251743 A 19890328; EP 0168387 A1 19860122; EP 0168387 A4 19860516; JP S61500863 A 19860501

DOCDB simple family (application)

US 8302044 W 19831227; CA 467647 A 19841113; EP 84900579 A 19831227; JP 50070184 A 19831227