Title (en)

RADIANT POWER FROM PULSED LASER AND MICROWAVE FOR ELIMINATING NOXIOUS EMISSIONS OF HYDROCARBON COMBUSTIONS

Title (de)

STRAHLUNGSENERGIE VON EINEM GEPULSTEN LASER UND EINER MIKROWELLE ZUM ELIMINIEREN VON SCHÄDLICHEN EMISSIONEN VON KOHLENWASSERSTOFFVERBRENNUNGEN

Title (fr)

FLUX ENERGETIQUE EMANANT D'UN LASER PULSE ET MICRO-ONDES DESTINES A ELIMINER LES EMISSIONS NOCIVES DE COMBUSTIONS D' HYDROCARBURES

Publication

EP 1907674 A1 20080409 (EN)

Application

EP 05734827 A 20050330

Priority

IT 2005000173 W 20050330

Abstract (en)

[origin: WO2006103704A1] A method and subsequent apparatus for eliminating noxious products in the emissions of hydrocarbon combustions exhaust gases. The invention here claimed consists in the combination of three forms of radiant energy production which all together and/or also separately concur to eliminate all the carbon particulates and the unburnt hydroxarbons, as well as the volatile gases (SOV) deriving from combustion processes of any kind. The three forms of radiant energy are the following: 1.radiant energy by means of radiant tubes 2.radiant energy produced by bombarding the material by means of microwaves (212, 312, 612, 812, 912, 1012) due to a quantum effect 3.radiant energy created by pulsed laser rays properly sent upon a graybody (202, 302, 602, 1002).

IPC 8 full level

F01N 3/08 (2006.01); **F01N 3/021** (2006.01); **F01N 3/035** (2006.01); **F01N 3/26** (2006.01); **F23G 7/06** (2006.01)

CPC (source: EP US)

F01N 3/027 (2013.01 - EP US); **F23G 7/063** (2013.01 - EP US); F01N 2240/16 (2013.01 - EP US); F23G 2204/202 (2013.01 - EP US); F23G 2204/203 (2013.01 - EP US)

Citation (search report)

See references of WO 2006103704A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006103704 A1 20061005; **WO 2006103704 A8 20080424**; EP 1907674 A1 20080409; US 2009266051 A1 20091029

DOCDB simple family (application)

IT 2005000173 W 20050330; EP 05734827 A 20050330; US 88770705 A 20050330