

Title (en)

METHOD AND SYSTEM FOR TREATING EMISSIONS USING A TRANSIENT PULSED PLASMA

Title (de)

VERFAHREN UND SYSTEM ZUR BEHANDLUNG VON EMISSIONEN MITHILFE EINES TRANSIENTEN GEPULSTEN PLASMAS

Title (fr)

PROCÉDÉ ET SYSTÈME DE TRAITEMENT D'ÉMISSIONS À L'AIDE D'UN PLASMA PULSÉ TRANSITOIRE

Publication

EP 3798431 A1 20210331 (EN)

Application

EP 20197970 A 20200924

Priority

US 201916586514 A 20190927

Abstract (en)

A method and system to treat emissions (e.g., smoke, particulate, odor, grease) employs a nanosecond high voltage pulse generator, a transient pulsed plasma reactor, and a DC voltage source that supplies a DC bias voltage, preferably a negative DC bias voltage to a conductor of the transient pulsed plasma reactor. The system is used in a scheme that substantially reduces at least particulate matter in emissions streams, for example emissions streams produced during cooking, for instance in commercial charbroiling processes (e.g., cooking of hamburger meat), or from operation of internal combustion engines. Both a reduction in the size distribution and total particulate mass is achieved using the method and system described herein.

IPC 8 full level

F01N 3/08 (2006.01)

CPC (source: EP)

F01N 3/0892 (2013.01); **F01N 2240/04** (2013.01); **F01N 2240/28** (2013.01)

Citation (applicant)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3798431 A1 20210331

DOCDB simple family (application)

EP 20197970 A 20200924