

Title (en)

METHOD OF IMPROVING COMBUSTION PROPERTIES OF FUEL

Title (de)

VERFAHREN ZUR VERBESSERUNG DER VERBRENNUNGSEIGENSCHAFTEN VON BRENNSTOFF

Title (fr)

PROCÉDÉ POUR AMÉLIORER LES PROPRIÉTÉS DE COMBUSTION DE CARBURANT

Publication

**EP 3971408 A1 20220323 (EN)**

Application

**EP 20196404 A 20200916**

Priority

EP 20196404 A 20200916

Abstract (en)

A method of improving the combustion properties of fuels, the method comprising the steps of:-providing a flow of fuel through a magnetically permeable fuel conduit;-providing an electrical conductor connected to a power supply;-winding the electrical conductor around the fuel conduit to obtain a solenoid;-applying a current to the solenoid via the power supply, and periodically varying the voltage thereby providing a voltage with a frequency;-altering the frequency of the voltage over a sweep cycle defined by a first limit frequency and a last limit frequency, which limit frequencies are in the range of 250 Hz to 10 GHz and are separated by at least 5000 Hz, the sweep cycle having a duration in the range of 0.01 s to 1 s.

IPC 8 full level

**F02M 27/04** (2006.01)

CPC (source: EP)

**F02M 27/04** (2013.01); **F02M 2027/047** (2013.01)

Citation (applicant)

EP 0652362 A1 19950510 - SCHULTE HARTMUT DIPL ING [DE]

Citation (search report)

- [XY] CN 201671729 U 20101215 - HE JUN
- [YA] US 2019186435 A1 20190620 - LOWERY ANDREW D [US], et al
- [YA] WO 2005108304 A1 20051117 - MIKHNEVICH VLADIMIR V [BY], et al
- [IA] WO 02075144 A1 20020926 - ONGLEY ERIC NORMAN [AU]
- [IA] EP 0894969 A2 19990203 - REIKA ELEKTRONIK KARIN WALCH [DE]

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)

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