

Title (en)

METHOD FOR DEPOSITING A CATALYST AT THE SURFACE OF A CATALYTIC COMBUSTION BURNER

Title (de)

VERFAHREN ZUR ABSCHIEDUNG EINES KATALYSATORS AUF DER OBERFLÄCHE EINES KATALYTISCHEN VERBRENNUNGSBRENNERS

Title (fr)

PROCEDE DE DEPOT D'UN CATALYSEUR A LA SURFACE D'UN BRULEUR A COMBUSTION CATALYTIQUE

Publication

**EP 3899368 B1 20240207 (FR)**

Application

**EP 19829572 A 20191219**

Priority

- FR 1873930 A 20181221
- EP 2019086486 W 20191219

Abstract (en)

[origin: WO2020127848A1] The present invention also relates to a method for depositing a catalyst at the surface of a catalytic combustion burner, comprising an end piece (1) of which the upper part (10) comprises an inner face (100), an outer face (101) and a crown-shaped upper face (102), and a sleeve (2) in the extension of the end piece (1), suitable for gripping a wick intended to convey a combustible composition to the burner. The method comprises A) a step of impregnating the outer (101), and inner (100) or upper (102), faces with a catalytic composition comprising at least one catalyst belonging to group 9 or 10 of the periodic table of elements; and B) a step of heat-treating the burner at a temperature Ta of at least 450°C. According to the invention, the catalytic composition is a non-Newtonian fluid exhibiting, before application on the end piece (1), a dynamic viscosity  $\mu$ c of at least 15 m Pa.s. at 20°C. The present invention also relates to a catalytic combustion burner which can be coated with a catalyst in accordance with the method according to the invention, and to a catalytic combustion bottle suitable for containing a combustible liquid and for receiving at its neck a catalytic combustion burner according to the invention.

IPC 8 full level

**F23D 3/24** (2006.01)

CPC (source: EP KR US)

**F23D 3/24** (2013.01 - EP KR US); **F23D 2213/00** (2013.01 - EP KR US); **F23D 2900/03081** (2013.01 - EP KR US); **F23D 2900/31004** (2021.05 - EP KR US)

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

DOCDB simple family (publication)

**WO 2020127848 A1 20200625**; CA 3121598 A1 20200625; CN 113195975 A 20210730; CN 113195975 B 20230919; EP 3899368 A1 20211027; EP 3899368 B1 20240207; EP 3899368 C0 20240207; ES 2971889 T3 20240610; FR 3090420 A1 20200626; FR 3090420 B1 20201211; JP 2022513281 A 20220207; JP 7483714 B2 20240515; KR 102658559 B1 20240419; KR 20210102909 A 20210820; TW 202030021 A 20200816; TW I731522 B 20210621; US 2022042677 A1 20220210

DOCDB simple family (application)

**EP 2019086486 W 20191219**; CA 3121598 A 20191219; CN 201980082868 A 20191219; EP 19829572 A 20191219; ES 19829572 T 20191219; FR 1873930 A 20181221; JP 2021534807 A 20191219; KR 20217019314 A 20191219; TW 108147104 A 20191220; US 201917416215 A 20191219