

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

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Application

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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 μ 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.

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