

Title (en)

DEVICE FOR THE THERMAL POST-COMBUSTION OF EXHAUST AIR

Title (de)

VORRICHTUNG ZUR THERMISCHEN NACHVERBRENNUNG VON ABLUFT

Title (fr)

DISPOSITIF DE POSTCOMBUSTION THERMIQUE D'AIR D'ÉCHAPPEMENT

Publication

EP 3120074 B1 20180926 (DE)

Application

EP 15712287 A 20150316

Priority

- DE 102014205200 A 20140320
- EP 2015055385 W 20150316

Abstract (en)

[origin: WO2015140085A1] The invention relates to a device for the post-combustion of exhaust air, comprising a burner (04), which has a fuel nozzle (07) and a burner cone (06) and which protrudes, in a raw-gas chamber (09), into an exhaust-air flow (02) of exhaust air to be treated at least by means of the burner cone (06) of the burner, wherein the burner cone (06) has a one- or multi-part wall (43), which surrounds the pre-mixing chamber (42) and has one or more wall segments (43.1; 43.2; 43.3; 43.4). The fuel nozzle (07) comprises an opening of at least one fuel outlet (44) for discharging fuel into the pre-mixing chamber (42), and the wall (43) bounding the pre-mixing chamber (42) outwardly on the lateral side has a structure such that the pre-mixing chamber (42) formed in the interior of the wall opens in the downstream direction in the manner of funnel on at least one cone longitudinal segment symmetrically to an axis of symmetry (S) defining the axial direction of the burner (04). The burner cone (06) comprises, in at least one longitudinal segment of the cone longitudinal segment of the wall (43), which cone longitudinal segment opens in the manner of a funnel, a plurality of tangential inlet openings (54) in order for exhaust air surrounding the burner cone (06) to enter the pre-mixing chamber (42) tangentially.

IPC 8 full level

F23C 9/00 (2006.01)

CPC (source: CN EP US)

F23C 9/00 (2013.01 - CN EP US); **F23C 9/006** (2013.01 - CN EP US); **F23C 2202/20** (2013.01 - CN EP US);
F23C 2900/07002 (2013.01 - CN EP 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)

DE 102014205200 B3 20150611; CN 106415126 A 20170215; CN 106415126 B 20180831; EP 3120074 A1 20170125;
EP 3120074 B1 20180926; US 2017254531 A1 20170907; WO 2015140085 A1 20150924

DOCDB simple family (application)

DE 102014205200 A 20140320; CN 201580026093 A 20150316; EP 15712287 A 20150316; EP 2015055385 W 20150316;
US 201515127088 A 20150316