

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

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Application
EP 15712287 A 20150316

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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.

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