

Title (en)

Burner for stoichiometric combustion of liquid or gaseous fuels.

Title (de)

Brenner zur stöchiometrischen Verbrennung von flüssigen oder gasförmigen Brennstoffen.

Title (fr)

Brûleur pour la combustion stoechiométrique de combustible liquide ou gazeux.

Publication

EP 0410135 B1 19941207 (DE)

Application

EP 90111657 A 19900620

Priority

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- DE 4009222 A 19900322

Abstract (en)

[origin: EP0410135A1] In a burner (1) for stoichiometric combustion of liquid or gaseous fuels, which consists of an atomising nozzle (12), an air supply pipe (13) surrounding this, and a combustion chamber (20) which is formed by a burner pipe (11) and is provided with a screen (21) or with a baffle plate, there are made in the burner pipe (11) in the region facing the screen (21) a number of recesses (31) extending in the longitudinal direction of the burner pipe (11), through which waste gas (R) can flow into the combustion chamber (20) from the boiler space (2). There can moreover be provided in the front region of the burner pipe (11) a circumferential constriction (41). By means of this design, an optimum gasification and exceptionally good combustion of the air/fuel mixture is made possible with low operating noise, in particular even in the start phase, so that the content of nitrogen oxides in the waste gases can be reduced to a considerable extent during the entire duration of operation of the burner (1).
<IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Cited by

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