

Title (en)

Burner for the combustion of liquid or gaseous fuels

Title (de)

Brenner zur Verbrennung von flüssigen oder gasförmigen Brennstoffen

Title (fr)

Brûleur pour la combustion de combustibles liquides ou gazeux

Publication

EP 0430011 B1 19960214 (DE)

Application

EP 90122073 A 19901119

Priority

DE 3938786 A 19891123

Abstract (en)

[origin: EP0430011A1] In a burner (1) for the combustion of liquid or gaseous fuels, its oil nozzle (12) or a filling piece extends through a screen (21) and is arranged or ends behind the screen (21) in the direction of flow of the combustion air. Moreover, the oil nozzle (12) or the filling piece is surrounded by a mixing member (31) which with the latter forms a mixing chamber (32) which is connected to the boiler space (4) via one or more ducts (33). By means of this arrangement, it is possible to add in a defined controlled manner a large quantity of waste gas to the combustion air before the latter flows into the combustion chamber (20), so that a blue-burning soot-free flame with a low proportion of nitrogen oxides can be achieved. The waste gas is in this connection drawn into the mixing chamber (32) by the combustion air which flows at a high speed and intimately mixed there, and a virtually stoichiometric combustion at a low temperature level is consequently guaranteed. <IMAGE>

IPC 1-7

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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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