

Title (en)
Oil or gas burner.

Title (de)
Oel- oder Gasbrenner.

Title (fr)
Brûleur à huile ou à gaz.

Publication
EP 0389409 B1 19941123 (DE)

Application
EP 90810083 A 19900207

Priority
CH 105889 A 19890322

Abstract (en)
[origin: EP0389409A2] The burner has a radial blower with a pressure-generating chamber (31), the external walling (26) of which runs spirally. The pressure- generating chamber is essentially wider than the fan wheel (27) but, in the region of the air outlet (35), has a first blocking means in the form of a bulwark (37). The air inlet (33) to the pressure- generating chamber (31) is arranged on the periphery of this chamber and more specifically axially staggered in relation to the fan wheel (27). Between the air inlet (33) and the air outlet (35), there are second blocking means. These second blocking means (39) have a part (42) which is concentric with the fan wheel (27) and a part (43) which extends from the concentric part (42) as far as the proximity of the inner edges of the blades (41). The outlet chamber (55) has an outlet opening (57), through which combustion air can flow to the burner head. This radial blower is very compact but makes it possible to generate a relatively high pressure, as is required for burners, in which the combustion air is delivered through an air screen in order to obtain recirculation of combustion gases. By means of recirculation of the combustion gases, a relatively favourable flame temperature can be brought about, which extensively excludes the formation of nitrogen oxide.
<IMAGE>

IPC 1-7
F23D 11/00; **F23D 14/36**; **F04D 29/42**

IPC 8 full level
F04D 23/00 (2006.01); **F23D 11/00** (2006.01); **F23D 14/36** (2006.01)

CPC (source: EP)
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Cited by
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EP 0389409 A2 19900926; **EP 0389409 A3 19910522**; **EP 0389409 B1 19941123**; AT E114365 T1 19941215; DE 59007729 D1 19950105; DK 0389409 T3 19950403; ES 2065512 T3 19950216

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