

Title (en)
Gas burner for boiler

Title (de)
Gasbrenner für einen Heizkessel

Title (fr)
Brûleur à gaz pour chaudières

Publication
EP 0884529 A3 19990915 (DE)

Application
EP 98109690 A 19980528

Priority
DE 19724861 A 19970612

Abstract (en)
[origin: DE19724861C1] The gas burner is especially used in a domestic heating boiler. It has a set of burner tubes through which the gas can escape into the combustion space. The tubes have bell-mouthed ends (5) where the gas enters. The gas enters through nozzles (4) which extend into the bell-mouths and mixes with primary air drawn in through the bell-mouths. The nozzles are cylindrical tubes, closed at the ends and with several radial holes (16) near the ends, through which the gas escapes at right-angles to the longitudinal axes (A) of each burner assembly. The gas nozzles have hexagonal bases (18) which screw into a gas supply manifold which may be accommodated inside an air chest supplied with air by a fan.

IPC 1-7
F23D 14/64; **F23D 14/60**

IPC 8 full level
F23D 14/10 (2006.01); **F23D 14/60** (2006.01); **F23D 14/64** (2006.01)

CPC (source: EP US)
F23D 14/105 (2013.01 - EP US); **F23D 14/60** (2013.01 - EP US); **F23D 14/64** (2013.01 - EP US)

Citation (search report)

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- [A] DE 4115814 A1 19921203 - RUHRGAS AG [DE]
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EP1314932A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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DE 19724861 C1 19981015; EP 0884529 A2 19981216; EP 0884529 A3 19990915; US 6027336 A 20000222

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DE 19724861 A 19970612; EP 98109690 A 19980528; US 8534998 A 19980527