

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)

- [Y] DE 9108300 U1 19911002
- [Y] FR 2481415 A1 19811030 - FULPIN JACQUES [FR]
- [A] NL 9100767 A 19921201 - REMEHA FABRIEKEN BV
- [A] DE 4115814 A1 19921203 - RUHRGAS AG [DE]
- [A] DE 3902025 A1 19890727 - VAILLANT JOH GMBH & CO [DE]
- [E] US 5762490 A 19980609 - RODGERS IAN M [US]

Cited by  
EP1314932A1

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

DOCDB simple family (publication)  
**DE 19724861 C1 19981015**; EP 0884529 A2 19981216; EP 0884529 A3 19990915; US 6027336 A 20000222

DOCDB simple family (application)  
**DE 19724861 A 19970612**; EP 98109690 A 19980528; US 8534998 A 19980527