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(11) **EP 0 881 433 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**22.09.1999 Bulletin 1999/38**

(51) Int Cl.<sup>6</sup>: **F23D 1/02, F23C 7/02**

(43) Date of publication A2:  
**02.12.1998 Bulletin 1998/49**

(21) Application number: **98304264.9**

(22) Date of filing: **29.05.1998**

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE**  
Designated Extension States:  
**AL LT LV MK RO SI**

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(30) Priority: **29.05.1997 GB 9710949**

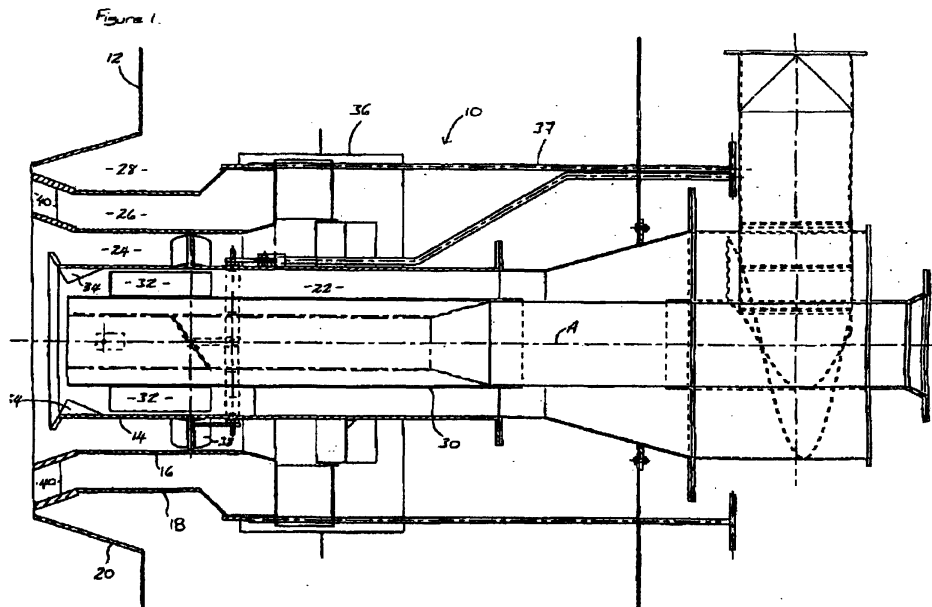
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(54) **Burner for the combustion of fuel**

(57) A burner (10) for the combustion of fuel comprises a passage (22) through which in operation a mixed flow of fuel and air passes for primary combustion at its outlet. Two further annular passages (24 & 26), concentric with and radially outward of the passage (22) are provided through which supplementary flows of air pass to support primary combustion. The outlets of the two annular passages (24 & 26) diverge to discharge the supplementary flows of air at an angle to the mixed

flow of fuel and air. An additional air passage (28) is provided radially outward of the passages (24 & 26). Air discharges from the air passage to adjust the effective angle of divergence of the supplementary flows or air which support combustion. The air discharged from the additional passage (28) controls the overall flame geometry to prevent interaction between flames from adjacent burners (10). The flame shape is optimised to meet the furnace geometry leading to a reduction of pollutant emissions.



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EUROPEAN SEARCH REPORT

Application Number  
EP 98 30 4264

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Place of search <b>THE HAGUE</b>		Date of completion of the search <b>27 July 1999</b>	Examiner <b>Coquau, S</b>
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