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(71) Applicant: **BRAY BURNERS LIMITED**
Leeds LS7 2AN (GB)

(72) Inventor:
Hargreaves, Keith John Arthur
Wetherby, LS23 6SA West Yorkshire (GB)

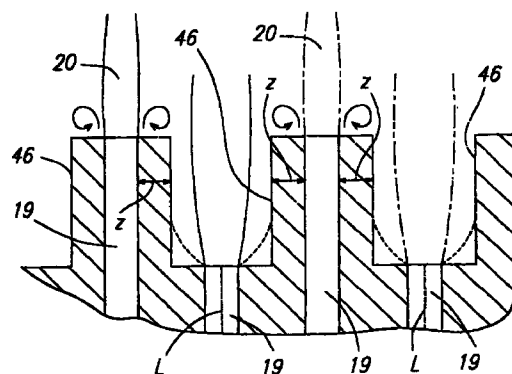
(74) Representative: **Denmark, James**
Bailey, Walsh & Co.
5 York Place
Leeds LS1 2SD Yorkshire (GB)

(54) Improvements relating to fuel/air fully pre-mixed burners

(57) The present invention provides a ceramic burner flame strip. The flame strip is designed to cause elimination of burner resonant noise, by providing that the "land width" (z) around each port (19) is reduced. The land width is the width of the flame strip surface which not only surrounds the port, but which also lies at right angles thereto. The land width can be reduced by providing that the ports (19) are arranged in rows with alternate rows having ports at a different height in the flame strip surface from the other ports, which has the effect of ensuring that the land width of all ports (19) is reduced so reducing the said noise.

The flame strip may be made up of individual plates or by a plaque (36) which is provided with the ports and then is machined to provide slots (46) in alignment with alternate rows of ports, so that these ports are at a different height in the flame strip surface with the effect as described above.

FIG. 6



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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X Y	DE 93 05 987 U (VAILLANT) 29 July 1993 * page 1, paragraph 1-3 * * page 6, paragraph 5; tables 1,11 * ---	1-5 6,9,10, 12,13	F23D14/58 F23D14/46
X A Y	NL 8 800 916 A (RINNAI KK) 16 November 1988 * page 3, line 26 - line 37 * * page 5, line 32 - page 6, line 11; figures 12,13 * ---	1-5 6,9,12, 13 6	
Y	PATENT ABSTRACTS OF JAPAN vol. 009, no. 158 (M-393), 3 July 1985 & JP 60 033414 A (MATSUSHITA DENKI SANGYO KK), 20 February 1985, * abstract * ---		
Y	GB 1 436 842 A (TENNANT & SONS WARRINGTON LTD) 26 May 1976 * the whole document * ---	9,10,12, 13	
A	US 4 569 657 A (LASPEYRES MARC) 11 February 1986 * figures 8-12 * -----	1-5	TECHNICAL FIELDS SEARCHED (Int.Cl.6) F23D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 March 1998	Examiner Coli, E
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document			

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