(11) **EP 0 841 520 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **03.11.1999 Bulletin 1999/44**

(51) Int Cl.6: **F23R 3/10**

(43) Date of publication A2: 13.05.1998 Bulletin 1998/20

(21) Application number: 97308248.0

(22) Date of filing: 17.10.1997

(84) Designated Contracting States:

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated Extension States:

AL LT LV RO SI

(30) Priority: 07.11.1996 GB 9623195

(71) Applicant: ROLLS-ROYCE plc London, SW1E 6AT (GB)

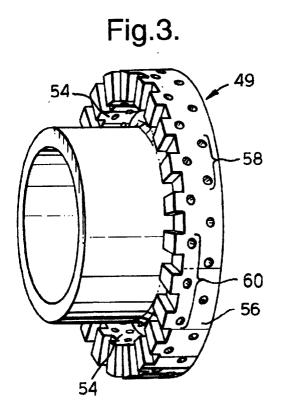
(72) Inventor: Allen, John Guy
Chipping Sodbury, Bristol BS17 6NS (GB)

 (74) Representative: Chapman, Helga Claire Rolls-Royce plc
 Patents Department
 Moor Lane
 P.O. Box 31
 Derby DE24 8BJ (GB)

(54) Gas turbine engine combustor

(57) A combustor for a gas turbine engine has a fuel nozzle located in the upstream end thereof and is positioned within a cylinder coaxial with said nozzle. The cylinder comprises at its downstream end an annular

flange extending from the cylinder in a generally radial direction. The flange has a plurality of cooling air apertures radially extending therethrough so as to direct cooling air along the face of an adjacent heatshield.



EP 0 841 520 A3



EUROPEAN SEARCH REPORT

Application Number EP 97 30 8248

	DOCUMENTS CONSIDEREI					
Category	Citation of document with indication of relevant passages	on, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)		
X	US 4 914 918 A (SULLIVA 10 April 1990 (1990-04- * figures *	N DENNIS J) 10)	1-9	F23R3/10		
X	DE 44 27 222 A (BMW ROL 8 February 1996 (1996-0 * figures *	LS ROYCE GMBH) 2-08)	1-9			
X	DE 195 08 111 A (BMW RO 12 September 1996 (1996 * figures *		1,2,5-7, 9			
X	US 4 934 145 A (ZEISSER 19 June 1990 (1990-06-1 * figure 1 *		1,2,4-6,			
1				TECHNICAL FIELDS		
				SEARCHED (Int.Cl.6)		
	The present search report has been dra			Examiner		
	Place of search THE HAGUE	Date of completion of the search 16 September 19	Date of completion of the search 16 September 1999 Rasp			
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category		E : earlier patent after the filing D : document cite L : document cite	T: theory or principle underlying the inventio E: earlier patent document, but published or after the filing date D: document cited in the application L: document cited for other reasons			
A : technological background O : non-written disclosure P : intermediate document			& : member of the same patent family, corresponding document			

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 97 30 8248

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

16-09-1999

	Patent document ed in search repo		Publication date		Patent family member(s)	Publication date
US	4914918	Α	10-04-1990	NONE	-	
DE	4427222	A	08-02-1996	CA DE WO EP	2196310 A 59503631 D 9604510 A 0774100 A	15-02-1996 22-10-1998 15-02-1996 21-05-1997
DE	19508111	Α	12-09-1996	CA WO EP US	2214691 A 9627765 A 0813669 A 5894732 A	12-09-1996 12-09-1996 29-12-1997 20-04-1999
US	4934145	Α	19-06-1990	FR GB	2637675 A 2223839 A,B	13-04-1990 18-04-1990

FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82