



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11) **EP 1 469 256 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**05.01.2005 Bulletin 2005/01**

(51) Int Cl.7: **F24C 3/08, F23D 14/06**

(43) Date of publication A2:  
**20.10.2004 Bulletin 2004/43**

(21) Application number: **04101576.9**

(22) Date of filing: **16.04.2004**

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

(72) Inventors:  
• **Dallaglio, Carmelo**  
**42024 Castelnovo di Sotto (IT)**  
• **Dall'Oglio, Alberto**  
**46029 Suzzara (IT)**

(30) Priority: **18.04.2003 IT MI20030829**

(74) Representative: **Jorio, Paolo et al**  
**STUDIO TORTA S.r.l.,**  
**Via Viotti, 9**  
**10121 Torino (IT)**

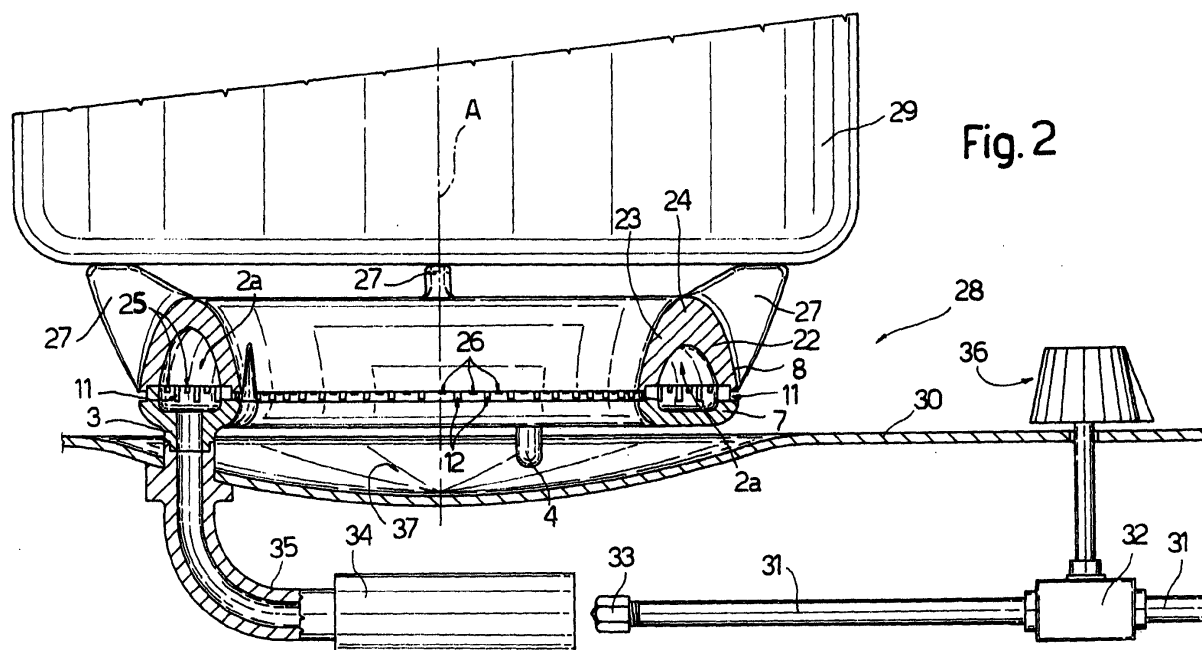
(54) **Gas ring for a cooking range**

(57) A gas ring (1), used in combination with pans (29) for cooking food, has a gas fitting (3); a gas distribution chamber (2a); and a number of nozzles (11,12,25,26;12,26) communicating with the gas distribution chamber (2a), which is located solely inside a pipe (2) extending along a path (P); and the nozzles

(11,12,25,26;12,26) are distributed solely along the pipe (2).

The path may have different shapes: a ring, circular or elliptical, C-shaped or S-shaped.

The gas ring (1) may have top protrusions (27) for support of a pan or a pot, and bottom protrusions (4) for transmitting the forces of pan and ring onto the range.



EP 1 469 256 A3



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 04 10 1576

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.7)
X	GB 2 223 302 A (TIAO HO YEN) 4 April 1990 (1990-04-04) * pages 3-5; figures 5,7 *	1-5,7,8, 12-20	F24C3/08 F23D14/06
P,A	WO 03/036168 A (OHG DEFENDI S R L ; PAESANI CARLO (IT)) 1 May 2003 (2003-05-01) * figures 2,7 *	2	
A	DE 39 18 722 A (KUZSELKA OEDOEN GYOERGY DIPL I) 22 November 1990 (1990-11-22) * figure 2 *	12-14, 17,18	
A	US 3 830 216 A (DODD E) 20 August 1974 (1974-08-20) * column 6, line 1 - line 6; figure 5 * * column 10, line 7 - line 9 *	12-19	
A	US 4 679 544 A (KOZIOL WALTER) 14 July 1987 (1987-07-14) * figures 10,12 *	12-19	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F24C F23D
<del>The present search report has been drawn up for all claims</del>			
Place of search Munich		Date of completion of the search 6 August 2004	Examiner von Mittelstaedt, A
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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 &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (P04C01)



European Patent  
Office

Application Number

EP 04 10 1576

### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-9, 12-22



European Patent  
Office

LACK OF UNITY OF INVENTION  
SHEET B

Application Number  
EP 04 10 1576

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-9, 12-22

A gas ring for a cooking range, with top projections acting as support for a pan, the projections being offset slightly laterally from the nozzles. and with bottom projections. The resulting effect is, that the weight of the pan is directly transmitted to the range via these projections.

---

2. claim: 10

A gas ring for a cooking range, the gas fitting being located directly beneath the gas pipe. The resulting effect is, that there is a larger amount of mounting possibilities of the flame rings on the range, and manufacturing cost can be reduced.

---

3. claim: 11

A gas ring for a cooking range, the cross section of the gas distribution chamber varying gas fitting being located directly beneath the gas pipe. The resulting effect is, that the gas discharge is equal at every nozzle, independent on how far it is located from the gas inlet into the distribution ring.

---

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

EP 04 10 1576

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.

06-08-2004

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2223302	A	04-04-1990	NONE	
WO 03036168	A	01-05-2003	IT VE20010043 A1	24-04-2003
			WO 03036168 A1	01-05-2003
			EP 1459012 A1	22-09-2004
DE 3918722	A	22-11-1990	DE 3918722 A1	22-11-1990
US 3830216	A	20-08-1974	CA 946695 A1	07-05-1974
			DE 2211961 A1	21-09-1972
			FR 2130180 A5	03-11-1972
			IT 952082 B	20-07-1973
			US 3773027 A	20-11-1973
US 4679544	A	14-07-1987	US 4478205 A	23-10-1984
			US 4488534 A	18-12-1984
			CA 1330755 C	19-07-1994
			CA 1225921 A1	25-08-1987
			US 4773384 A	27-09-1988
			CA 1206864 A1	01-07-1986

EPO FORM P0459

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