



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification <sup>6</sup> : <b>F23G 1/00, 5/16, A61G 19/00</b></p>	<p><b>A3</b></p>	<p>(11) International Publication Number: <b>WO 99/32829</b> (43) International Publication Date: 1 July 1999 (01.07.99)</p>
<p>(21) International Application Number: PCT/IT98/00369 (22) International Filing Date: 18 December 1998 (18.12.98) (30) Priority Data: UD97A000239 19 December 1997 (19.12.97) IT UD97A000240 19 December 1997 (19.12.97) IT UD97A000241 19 December 1997 (19.12.97) IT (71) Applicant (for all designated States except US): G.E.M. S.R.L. [IT/IT]; Via Belloni, 9, I-33100 Udine (IT). (72) Inventors; and (75) Inventors/Applicants (for US only): GIUST, Andrea [IT/IT]; Via Belloni, 9, I-33100 Udine (IT). GIUST, Fabrizio [IT/IT]; Via Belloni, 9, I-33100 Udine (IT). (74) Agent: D'AGOSTINI, Giovanni; D'Agostini Organizzazione S.r.l., Via G. Giusti, 17, I-33100 Udine (IT).</p>	<p>(81) Designated States: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, SG, SI, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). <b>Published</b> <i>With international search report.</i> (88) Date of publication of the international search report: 26 August 1999 (26.08.99)</p>	

(54) Title: CORPSE CREMATION PLANT

(57) Abstract

Crematory furnace with crematory chamber (7), characterised in that: said crematory chamber (7), has an underlying chamber for the smoke recirculation (8), said underlying chamber having the function of further heating the crematory bottom which makes up the resting plane of the corpse being cremated; at least a post-combustion chamber with separated post-burners (8''-8/9''-9'') is provided.

The drawings illustrate the crematory furnace in three rows. Each row shows a vertical cross-section on the left and a horizontal side view on the right. The crematory chamber (7) is the upper part, containing the resting plane. Below it is the smoke recirculation chamber (8). The side views show the internal structure, including the post-combustion chamber (8'', 8/9'', 9'') and various components like burners and ducts. Reference numerals 7, 7'', 7''', 8, 8'', 8/9'', 9, and 9'' are used to identify the different parts.

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IT 98/00369

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 6 F23G1/00 F23G5/16 A61G19/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) IPC 6 F23G A61G		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 180 630 A (FURNACE CONSTRUCTION CO LIMITE) 1 April 1987 see figure 1 see page 1, line 5 - line 14 see page 1, line 76 - line 98	1,2,6-8
Y	---	3,9
Y	US 4 401 038 A (SEGREST WILLIAM W) 30 August 1983 see figure 1 see column 1, line 6 - line 11 see column 1, line 66 - column 2, line 32 see claim 8	3
A	---	4
-/--		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.		
<input checked="" type="checkbox"/> Patent family members are listed in annex.		
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Date of the actual completion of the international search	Date of mailing of the international search report	
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INTERNATIONAL SEARCH REPORT

International Application No

PCT/IT 98/00369

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 614 392 A (HURET CHRISTIAN) 28 October 1988	1
Y	see figures 1,2 see page 1, line 1 - line 5 see page 1, line 19 - line 38 ---	9
X	GB 2 032 596 A (DOWSON & MASON LTD) 8 May 1980 see figures 1-3 see column 1, line 4 - line 7 see column 2, line 75 - line 83 ---	1
A	---	4,9
X	US 4 321 878 A (SEGREST WILLIAM W) 30 March 1982 see figures 1-3 see column 1, line 5 - line 9 see column 1, line 56 - column 2, line 5 see column 2, line 37 - column 3, line 2 ---	1
A	CH 144 253 A (KARL LUDWIG) 2 March 1931 see figure 1 see page 1, left-hand column, line 1 - line 5 see page 2, right-hand column, paragraph 3 ---	5
A	DD 271 557 A (FUERSTENBERG VEB MASCHBAU) 6 September 1989 see figures 1-6 see page 2, paragraph 5 see page 3, paragraph 2 ---	10-13
A	CH 631 929 A (KOCH AG) 15 September 1982 see the whole document ---	1,11
A	WO 96 10718 A (TABO INEX HOLDING BV ;KLEINSCHMIDT LEENDERT ANTONIUS (NL)) 11 April 1996 see page 1, line 35 - page 2, line 18 see page 3, line 29 - page 4, line 20 see figures 1,2 ---	10
A	PATENT ABSTRACTS OF JAPAN vol. 012, no. 212 (M-710), 17 June 1988 & JP 63 015005 A (SOICHI ARAKAWA), 22 January 1988 see abstract -----	10,14

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IT 98/00369

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1,2-9

Layout of burners with regard to primary and post-combustion chambers in order to optimize the combustion efficiency of a cremator.

2. Claims: 1,10-14

Device to charge coffins in crematory furnace and clean the remaining ashes.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IT 98/00369

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2180630	A	01-04-1987	NONE	
US 4401038	A	30-08-1983	NONE	
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