



**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/IL2011/000569

**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. F03G7/00  
 ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 F03G F02G F28F

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 practicable, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 804 967 B2 (SYMKO OREST G [US] ET AL) 19 October 2004 (2004-10-19) cited in the application column 5, line 38 - column 6, line 9; figure 1	1-23
A	----- US 7 263 837 B2 (SMITH BARTON L [US]) 4 September 2007 (2007-09-04) cited in the application column 4, lines 40-44	1-23
A	----- US 4 398 398 A (WHEATLEY JOHN C [US] ET AL) 16 August 1983 (1983-08-16) cited in the application the whole document	1-23

Further documents are listed in the continuation of Box C.       See patent family annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search	Date of mailing of the international search report
6 June 2012	30/08/2012

Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  Olona Laglera, C
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## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 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 No. III Observations where unity of invention is lacking (Continuation of item 3 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 fees, this Authority did not invite payment of additional fees.
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.:

1-23

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IL2011/000569

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
US 6804967	B2	19-10-2004	GB 2393238 A	24-03-2004
			JP 4046686 B2	13-02-2008
			JP 2004534195 A	11-11-2004
			US 6574968 B1	10-06-2003
			US 2004000150 A1	01-01-2004
			WO 03004946 A1	16-01-2003
US 7263837	B2	04-09-2007	US 2004231341 A1	25-11-2004
			WO 2004088218 A1	14-10-2004
US 4398398	A	16-08-1983	CA 1170852 A1	17-07-1984
			DE 3229435 A1	24-02-1983
			FR 2511427 A1	18-02-1983
			GB 2105022 A	16-03-1983
			IT 1152367 B	31-12-1986
			JP 1684911 C	31-07-1992
			JP 3046745 B	17-07-1991
			JP 58052948 A	29-03-1983
			NL 8203171 A	01-03-1983
			US 4398398 A	16-08-1983

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

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

1. claims: 1-23

Method and system for converting energy  
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2. claims: 24-30

Method and system for generating electrical current  
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3. claims: 31-40

Method and system for material separation  
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4. claim: 41

Method of material separation  
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5. claims: 42, 43

Thermoacoustic system  
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6. claim: 44

System for converting energy  
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7. claim: 45

Method of converting energy  
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