(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 April 2009 (09.04.2009)

PCT

(10) International Publication Number
WO 2009/043904 A3

(51) International Patent Classification:
B60R 21/264 (2006.01) *B60R 21/272* (2006.01)
B60R 21/26 (2006.01)

(21) International Application Number:
PCT/EP2008/063229

(22) International Filing Date: 2 October 2008 (02.10.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
07/06916 3 October 2007 (03.10.2007) FR

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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

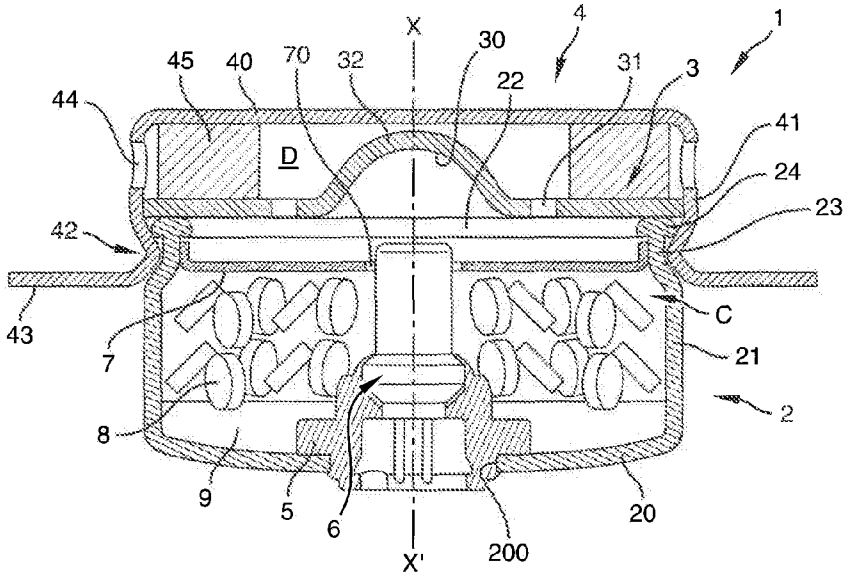
Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

[Continued on next page]

(54) Title: GAS GENERATOR WITH A DISCOID SHAPE

FIG. 1



(57) Abstract: The invention relates to a generator (1) of disk shape, which comprises a combustion chamber (C) wherein is present an initiator (6) associated with a pyrotechnic charge (8), and a diffusion chamber (D), this generator including: a box (2) with a base (20) and a lateral wall (21), the top thereof (22) being open; a cover (4) with a base (40) a lateral wall (41) provided with at least one orifice (44), the base thereof being open, this cover (4) being fixed by the lateral wall thereof (41) to the lateral wall (21). The invention is characterized in that it comprises a partition (3) fixed to this box (2), which seals the top thereof (22), without extending towards the interior of box (2), or beyond the periphery thereof, this partition (3) being pierced by at least one orifice (31).

WO 2009/043904 A3

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

— *with international search report*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
28 May 2009

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2008/063229

A. CLASSIFICATION OF SUBJECT MATTER
INV. B60R21/264
ADD. B60R21/26 B60R21/272

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)
B60R

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)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 578 247 A (BOLIEAU CHRISTOPHER W [US]) 25 March 1986 (1986-03-25)	1
Y	column 6, lines 14-24; figures	2
Y	US 5 501 487 A (TREVILLYAN DENNIS A [US] ET AL) 26 March 1996 (1996-03-26) figures	1,2
Y	US 2004/145166 A1 (SMITH BRADLEY W [US]) 29 July 2004 (2004-07-29) cited in the application paragraph [0042]	1,2
X	US 5 844 164 A (CABRERA RAUL ROSALES [US]) 1 December 1998 (1998-12-01)	1
Y	figures	2

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[X] Further documents are listed in the continuation of Box C. [X] 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
"E" earlier document but published on or after the international filing date
"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)
"O" document referring to an oral disclosure, use, exhibition or other means
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"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
"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
"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.
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
9 January 2009	01/04/2009

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Douhet, Hervé

4

Form PCT/ISA/210 (second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2008/063229

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 582 427 A (RINK LINDA M [US] ET AL) 10 December 1996 (1996-12-10) figure 2	1,2
A	US 2001/048218 A1 (WHANG DAVID [US] ET AL) 6 December 2001 (2001-12-06) figure 4	1,2
A	EP 0 012 627 A (THIOKOL CORP [US]) 25 June 1980 (1980-06-25) figure 8	1,2

4

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2008/063229

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 allsearchable 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 reportcovers 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.:

1,2

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.

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

   Pyrotechnic gas generator having a partition fixed to a box by means of friction welding.

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2. claims: 3,4

   Gas generator having an optimized shape.

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3. claims: 5-6

   Gas generator having an optimized partition.

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4. claims: 7-13

   Gas generator having an optimized initiator.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/EP2008/063229

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