A die cast connector adapter (1) having a substantially cylindrical adapter body includes a first portion (10a) having a first outer diameter and a second portion (10b) having a second outer diameter. The adapter body has an inner cavity including, from one end thereof to the other, a frustoconical section (16) preferably substantially coincident with the second portion, a cylindrical section (14) and a contour cut-out section (22). The frustoconical section and cylindrical section are adapted to receive the correspondingly-shaped end of an initiator (60) for an air-bag inflator and the contour cut-out section is adapted to receive, in keyed fashion, a connector for mating with pins on the initiator. An inflator assembly incorporating the connector adapter is also disclosed.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
   IPC(7) : B60R 21/26; C06D 5/00; F16B 2/00
   US CL : 403/365; 102/202.14, 530; 280/741
   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)
   U.S. : 403/365, 367, 368; 102/202.14, 530; 280/741, 740

   Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
   none

   Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
   EAST - BRS
   terms: inflator, adapter, initiator, zinc, aluminum

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>ATLANTIC RESEARCH CORPORATION Technical Disclosure, &quot;Initiator Assembly&quot;, Drawing No. BA01833-001, 10 March 1999.</td>
<td>1-17</td>
</tr>
<tr>
<td>X</td>
<td>US 5,364,202 A (ETTELBRUECK) 15 November 1994 (15/11/94), see entire document, especially Fig. 1A.</td>
<td>1-2, 6, 8, &amp; 10</td>
</tr>
<tr>
<td>A</td>
<td>US 5,480,185 A (LOWE et al.) 02 January 1996 (02/01/96), see entire document.</td>
<td>1-17</td>
</tr>
<tr>
<td>A</td>
<td>US 5,845,933 A (WALKER et al.) 08 December 1998 (08/12/98), see entire document.</td>
<td>1-17</td>
</tr>
<tr>
<td>A, P</td>
<td>US 6,032,979 A (MOSSI et al.) 07 March 2000 (07/03/00), see entire document.</td>
<td>1-17</td>
</tr>
</tbody>
</table>

[X] 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
   *E* earlier document published on or after the international filing date
   *L* document which may throw doubt 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
   *P* document published prior to the international filing date but later than the priority date claimed
   *S* 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
   *Z* document member of the same patent family

Date of the actual completion of the international search: 16 FEBRUARY 2001
Date of mailing of the international search report: 27 MAR 2001

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231
Facsimile No. (703) 305-3230

Authorized officer: HARRY KIM
Telephone No. (703) 308-2168

Form PCT/ISA/210 (second sheet) (July 1998)
<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A, P</td>
<td>US 6,062,599 A (FORBES et al.) 16 May 2000 (16/05/00), see entire document.</td>
<td>1-17</td>
</tr>
</tbody>
</table>
## INTERNATIONAL SEARCH REPORT

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

This international 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:

Please See Extra 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.
BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING
This ISA found multiple inventions as follows:

Group I, claims 1-10, drawn to an adapter, classified in class 403, subclass 365.
Group II, claims 11-17, drawn to an assembly for a pressure vessel, classified in class 102, subclass 530.

There is a lack of unity under PCT Rules 13.1 and 13.2 because there is no "special technical feature" common to all of Groups which defines the contribution which each of the inventions makes over the prior art. The combination as claimed, claims 11-17, does not require the specifically claimed inner cavity recited in claim 1. The subcombination, the adapter, could be use to mount an electrical socket in a wall.