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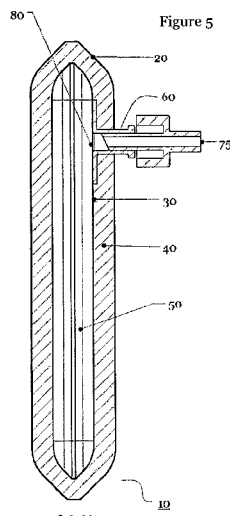
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8 December 2011

(54) Title: SAFETY FUEL TRANSPORTATION, STORAGE, AND DELIVERY SYSTEM



(57) Abstract: The present invention is an assembly for transporting, storing, and delivering a fuel such that a compromise to the containment of the fuel is readily recognized.



WO 2010/110862 A3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 10/00842

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - B65B 1/04 (2010.01) USPC - 141/21; 137/67, 255 According to International Patent Classification (IPC) or to both national classification and IPC</p>																	
<p>B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC(8) - B65B 1/04 (2010.01) USPC - 141/21; 137/67, 255</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched (text search - see terms below)</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST(USPT,PGPB,EPAB,JPAB); Google Scholar; Google Patents Search Terms: fuel, cartridge, cell, inner, interior, inside, enclosure, barrier, liner, bladder, methanol, cellulose, fiber, glass, hydrophilic, instr-snow, foaming, salt, anti-freeze, dyes, ph, indicator, colored, beads, mold, prevent, sodium, potassium, alkyl, acrylate, transparent</p>																	
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <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 -- Y</td> <td>US 2008/0026278 A1 (Iyoda et al.) 31 January 2008 (31.01.2008), Fig 2C, 7 and 8, para [0078], [0079], [0088], [0106] and [0108]-[0109]</td> <td>1-6 and 20 ----- 7-19</td> </tr> <tr> <td>Y</td> <td>US 2007/0114485 A1 (Adams et al.) 24 May 2007 (24.05.2007), Fig 15, para [0063] and [0065]</td> <td>7-10, 13-15 and 18</td> </tr> <tr> <td>Y</td> <td>US 2003/0082427 A1 (Prasad et al.) 01 May 2003 (01.05.2003), Fig 2 and 10, para [0028] and [0051]</td> <td>9, 11-16 and 19</td> </tr> <tr> <td>Y</td> <td>US 2004/0214056 A1 (Gore) 28 October 2004 (28.10.2004), para [0023] and [0028]</td> <td>17</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X -- Y	US 2008/0026278 A1 (Iyoda et al.) 31 January 2008 (31.01.2008), Fig 2C, 7 and 8, para [0078], [0079], [0088], [0106] and [0108]-[0109]	1-6 and 20 ----- 7-19	Y	US 2007/0114485 A1 (Adams et al.) 24 May 2007 (24.05.2007), Fig 15, para [0063] and [0065]	7-10, 13-15 and 18	Y	US 2003/0082427 A1 (Prasad et al.) 01 May 2003 (01.05.2003), Fig 2 and 10, para [0028] and [0051]	9, 11-16 and 19	Y	US 2004/0214056 A1 (Gore) 28 October 2004 (28.10.2004), para [0023] and [0028]	17
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<p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/></p>																	
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"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</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"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</td> </tr> <tr> <td>"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)</td> <td>"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</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"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						
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<p>Date of the actual completion of the international search 08 July 2010 (08.07.2010)</p>		<p>Date of mailing of the international search report 04 NOV 2010</p>															
<p>Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201</p>		<p>Authorized officer: Lee W. Young PCT Helpdesk: 571-273-4300 PCT OSP: 571-272-7774</p>															

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 10/00842

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 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 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.:

- 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

International application No.

PCT/US 10/00842

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I: claims 1-19 directed to a container for storing, transporting, and delivering fuel, the container being comprised of :
an outer enclosure;
at least one inner enclosure fully encased by the outer enclosure; and
at least one inlet/outlet means having a connector or another means of removing the fuel such as a hose attached;
wherein the enclosures which are exposed to the fuel are substantially non-reactive to the fuel, and the fuel may be sealed within the outer enclosure or within the at least one inner enclosure.

Group II: claim 20 directed to a container for storing, transporting, and delivering fuel, the container being comprised of :
a self-sealing outer enclosure having at least one inlet/ outlet means having a connector;
wherein the outer enclosure is pierced or broken at the at least one inlet/outlet means to allow the fuel to be released or to allow air into an enclosure.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because under PCT Rule 13.2 they lack the same or corresponding technical features for the following reasons:

Group I does not include the self-sealing outer enclosure nor the outer enclosure being pierced or broken to allow fuel release or air entrance to the enclosure of group II.

Group II does not include the inner enclosure nor the enclosures being non-reactive to fuel of group I.

The common feature of a fuel container comprising an outer enclosure having at least one inlet/ outlet means having a connector is taught by US 6,138,707 A to Stuart issued 31 October 2000 (col 3, ln 24-42); therefore the common feature is not an improvement over the prior art.

None of these technical features are common to the other groups, nor do they correspond to a special technical feature in the other groups. Therefore, unity of invention is lacking.