



- (51) **International Patent Classification:**
E04H 7/06 (2006.01) *B65D 90/08* (2006.01)
- (21) **International Application Number:**
PCT/US2013/036003
- (22) **International Filing Date:**
10 April 2013 (10.04.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
13/483,986 30 May 2012 (30.05.2012) US
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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, BN, BR, BW, BY, BZ, CA, CH, CL, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, 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:** DECONSTRUCTABLE TANKS FOR USE IN HIGH VOLUME FLUID TRANSFER OPERATIONS AND METHODS AND SYSTEMS USING SAID TANKS

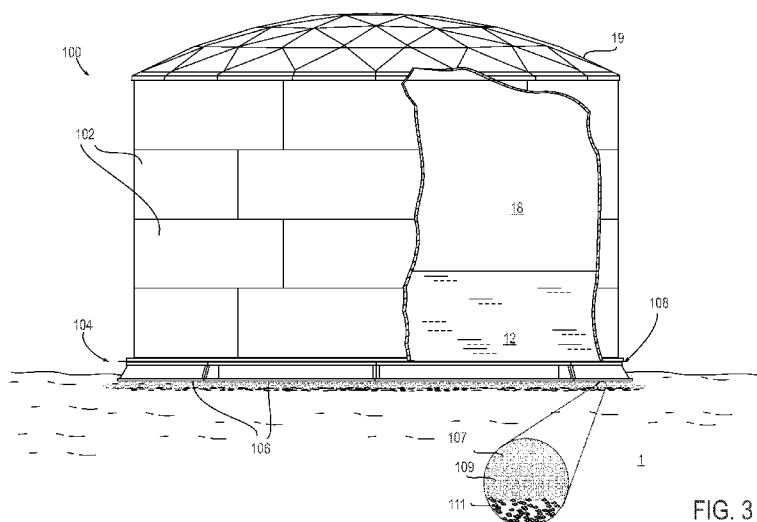


FIG. 3

(57) **Abstract:** Deconstructable water storage tank assembled using modular components including wall panels (102), a base ring (106) and a membrane (108) for use in large volume fluid transfer operations such as hydraulic fracturing. Also disclosed are methods for assembling the tank for use at a first hydraulic fracturing site, and disassembling and transporting the tank components for re-deployment at a second hydraulic fracturing site. A fluid management system is also disclosed utilizing the deconstructable storage tank.





- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))* — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

Published:

- *with international search report (Art. 21(3))*

(88) Date of publication of the international search report:

3 April 2014

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2013/036003

A. CLASSIFICATION OF SUBJECT MATTER
INV. E04H7/06 B65D90/08
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)
E04H B65D E21B

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.
X	AU 631 410 B2 (PIONEER WATER TANKS) 26 November 1992 (1992-11-26) page 8, line 28 - page 13, line 21 page 15, line 19 - page 19, line 10 page 21, line 1 - line 33; figures 1-4b,8,10-10c -----	1-9
X	WO 93/07072 A1 (BRIEN COLIN STEVEN [AU]) 15 April 1993 (1993-04-15) page 9, line 2 - page 12, line 6 page 15, line 1 - page 16, line 3; figures 1-8 -----	1-3,6-9
A	US 1 265 966 A (SCHLAFLY JULIUS H [US]) 14 May 1918 (1918-05-14) page 1, left-hand column, line 53 - page 2, left-hand column, line 32; figures 1-4 ----- -/-	1,3-9



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 application or patent 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

"P" document published prior to the international filing date but later than the priority date claimed

"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

8 October 2013

Date of mailing of the international search report

13/02/2014

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2013/036003

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2008/112767 A1 (AGRA IND INC [US]; HINNER PAT S [US]) 18 September 2008 (2008-09-18) figures 1-6 -----	1-9
A	US 2 235 937 A (LINBERG ANDREW C) 25 March 1941 (1941-03-25) page 1, left-hand column, line 47 - page 2, left-hand column, line 3; figures 1,2 -----	1,3-9

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/036003

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.:

see additional sheet(s)

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: 1-9

Method of deploying a deconstructable tank and
deconstructable tank

2. claims: 10-15

Fluid management system

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2013/036003

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
AU 631410	B2	26-11-1992	AU 631410 B2 26-11-1992
		AU 5247490 A	04-10-1990

WO 9307072	A1	15-04-1993	NONE

US 1265966	A	14-05-1918	NONE

WO 2008112767	A1	18-09-2008	CA 2680662 A1 18-09-2008
		EP 2129848 A1	09-12-2009
		RS 20090420 A	31-10-2010
		US 2008222977 A1	18-09-2008
		WO 2008112767 A1	18-09-2008

US 2235937	A	25-03-1941	NONE
