



US00RE47162E

(19) **United States**
(12) **Reissued Patent**
Oren et al.

(10) **Patent Number:** **US RE47,162 E**
(45) **Date of Reissued Patent:** **Dec. 18, 2018**

(54) **PROPPANT VESSEL**
(71) Applicant: **Oren Technologies, LLC**, Houston, TX (US)
(72) Inventors: **John Oren**, Houston, TX (US); **Joshua Oren**, Houston, TX (US)
(73) Assignee: **OREN TECHNOLOGIES, LLC**, Houston, TX (US)
(21) Appl. No.: **29/500,681**
(22) Filed: **Aug. 27, 2014**

Related U.S. Patent Documents

Reissue of:

(64) Patent No.: **Des. 688,351**
Issued: **Aug. 20, 2013**
Appl. No.: **29/436,170**
Filed: **Nov. 2, 2012**

(51) **LOC (11) Cl.** **23-01**
(52) **U.S. Cl.**
USPC **D23/202**

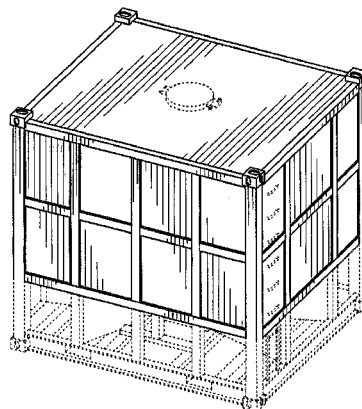
(58) **Field of Classification Search**
USPC D23/202-206; 222/185.1, 460; 206/386, 206/600; 414/813; 220/581
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

137,871 A 4/1873 Worsley
150,894 A 5/1874 Safely
384,443 A 6/1888 Hoover
448,238 A 3/1891 Johnson
710,611 A 10/1902 Ray
711,632 A 10/1902 Johnson
917,649 A 4/1909 Otto
1,143,641 A 6/1915 McGregor
1,331,883 A 2/1920 Stuart
1,344,768 A 6/1920 Messiter
1,434,488 A 11/1922 Forsythe et al.
1,520,560 A 12/1923 Burno
1,506,936 A 9/1924 Lea
1,526,527 A 2/1925 Butler

1,573,664 A 2/1926 Wetherill
1,807,447 A 5/1931 Smith
1,850,000 A 3/1932 Fernand
1,932,320 A 10/1933 Steward
1,973,312 A 9/1934 Hardinge
2,020,628 A 11/1935 Woodruff
2,233,005 A 2/1941 Garlinghouse
2,255,448 A 9/1941 Morris
2,293,160 A 8/1942 Miller et al.
2,368,672 A 2/1945 McNamara
2,381,103 A 8/1945 Frank
2,385,245 A 9/1945 Willoughby
2,413,661 A 12/1946 Stokes
2,423,879 A 7/1947 De Frees
2,563,470 A 8/1951 Kane
2,564,020 A 8/1951 Mengel
2,603,342 A 7/1952 Martinson
2,616,758 A 11/1952 Meyers
2,622,771 A 12/1952 Tulou
2,652,174 A 9/1953 Shea et al.
2,670,866 A 3/1954 Glesby
2,678,145 A 5/1954 Ejuzwiak et al.
2,693,282 A 11/1954 Sensibar
2,700,574 A 1/1955 Tourneau
2,792,262 A 4/1955 Hathom
2,774,515 A 12/1956 Johansson et al.
2,791,973 A 5/1957 Dorey
2,801,125 A 7/1957 Page et al.
2,808,164 A 10/1957 Glendinning
2,812,970 A 11/1957 Martinson
2,837,369 A 6/1958 Stopps
2,865,521 A 12/1958 Fisher et al.
2,873,036 A 2/1959 Noble
2,894,666 A 7/1959 Campbell, Jr.
2,988,235 A 6/1961 Ronyak
2,994,460 A 8/1961 Matthews
3,041,113 A 6/1962 Sackett
3,049,248 A 8/1962 Heltzel et al.
3,064,832 A 11/1962 Heltzel
3,083,879 A 4/1963 Coleman
3,090,527 A 5/1963 Rensch
3,109,389 A 11/1963 Karlsson
3,122,258 A 2/1964 Raymond
3,134,606 A 5/1964 Oyler
3,135,432 A 6/1964 McKinney
3,163,127 A 12/1964 Guttridge et al.
3,187,684 A 6/1965 Ortnor
3,198,494 A 8/1965 Curran et al.
3,199,585 A 8/1965 Cronberger
3,248,026 A 4/1966 Kemp
3,255,927 A 6/1966 Ruppert et al.
3,265,443 A 8/1966 Simas
3,270,921 A 9/1966 Nadolske et al.



US RE47,162 E

Page 2

3,281,006	A	10/1966	Wei	4,329,106	A	5/1982	Adler
3,294,306	A	12/1966	Aredy	4,350,241	A	9/1982	Wenzel
3,318,473	A	5/1967	Jones et al.	4,359,176	A	11/1982	Johnson
3,326,572	A	6/1967	Murray	4,363,396	A	12/1982	Wolf et al.
3,343,688	A	9/1967	Ross	4,397,406	A	8/1983	Croley
3,353,599	A	11/1967	Swift	4,398,653	A	8/1983	Daloisio
3,354,918	A	11/1967	Coleman	4,402,392	A	9/1983	Fabian et al.
3,378,152	A	4/1968	Warner	4,407,202	A	10/1983	McCormick
3,387,570	A	6/1968	Pulcrano et al.	4,408,886	A	10/1983	Sampson et al.
3,396,675	A	8/1968	Stevens	4,410,106	A	10/1983	Kierbow et al.
3,397,654	A	8/1968	Snyder	4,420,285	A	12/1983	Loyer et al.
3,406,995	A	10/1968	McCarthy	4,427,133	A	1/1984	Kierbow et al.
3,407,971	A	10/1968	Oehler	4,428,504	A	1/1984	Bassett et al.
3,425,599	A	2/1969	Sammarco et al.	4,449,861	A	5/1984	Saito et al.
3,455,474	A	7/1969	Truncali	4,453,645	A	6/1984	Usui et al.
3,476,270	A	11/1969	Cox et al.	4,474,204	A	10/1984	West
D216,511	S *	1/1970	Coleman D23/202	4,475,672	A	10/1984	Whitehead
3,499,694	A	3/1970	Coppel	4,478,155	A	10/1984	Cena et al.
3,508,762	A	4/1970	Pratt	4,483,462	A	11/1984	Heintz
3,524,567	A	8/1970	Coleman	4,513,755	A	4/1985	Baroni
3,528,570	A	9/1970	Pase	4,525,071	A	6/1985	Horowitz
3,587,834	A	6/1971	Dugge	4,526,353	A	7/1985	Stomp
3,596,609	A	8/1971	Ortner	4,532,098	A	7/1985	Campbell
3,601,244	A	8/1971	Ort et al.	4,552,573	A	11/1985	Weis
3,602,400	A	8/1971	Cooke	4,569,394	A	2/1986	Sweatman et al.
3,650,567	A	3/1972	Danielson	4,571,143	A	2/1986	Hellerich
3,653,521	A	4/1972	Bridge	4,588,605	A	5/1986	Frei et al.
3,661,293	A	5/1972	Gerhard et al.	4,608,931	A	9/1986	Ruhmann et al.
3,692,363	A	9/1972	Tenebaum et al.	4,619,531	A	10/1986	Dunstan
3,704,797	A	12/1972	Suykens	4,624,729	A	11/1986	Bresciani et al.
3,721,199	A	3/1973	Hassenauer	4,626,155	A	12/1986	Hlinsky et al.
3,729,121	A	4/1973	Cannon	4,626,166	A	12/1986	Jolly
3,734,215	A	5/1973	Smith	4,628,825	A	12/1986	Taylor et al.
3,738,511	A	6/1973	Lemon et al.	4,648,584	A	3/1987	Wamser
3,752,511	A	8/1973	Racy	4,660,733	A	4/1987	Snyder et al.
3,777,909	A	12/1973	Rheinfrank	4,701,095	A	10/1987	Berryman et al.
3,785,534	A	1/1974	Smith	4,714,010	A	12/1987	Smart
3,800,712	A	4/1974	Krug, Jr.	4,715,754	A	12/1987	Scully
3,802,584	A	4/1974	Sackett	4,741,273	A	5/1988	Sherwood
3,817,261	A	6/1974	Rogge	4,761,039	A	8/1988	Hilaris
3,820,762	A	6/1974	Bostrom et al.	4,798,039	A	1/1989	Deglise
3,827,578	A	8/1974	Hough	4,801,389	A	1/1989	Brannon et al.
3,840,141	A	10/1974	Allom et al.	4,819,830	A	4/1989	Schultz
3,854,612	A	12/1974	Snap	4,836,510	A	6/1989	Weber et al.
3,861,716	A	1/1975	Baxter et al.	4,836,735	A	6/1989	Dennehy
3,883,005	A	5/1975	Stevens	4,848,605	A	7/1989	Wise
3,909,223	A	9/1975	Schmidt	4,882,784	A	11/1989	Tump
3,933,100	A	1/1976	Dugge	4,889,219	A	12/1989	Key
3,963,149	A	6/1976	Fassauer	4,901,649	A	2/1990	Fehrenbach et al.
3,970,123	A	7/1976	Poulton et al.	4,909,378	A	3/1990	Webb
3,986,708	A	10/1976	Hellzel et al.	4,909,556	A	3/1990	Koskinen
3,997,089	A	12/1976	Clarke et al.	4,917,019	A	4/1990	Hesch et al.
4,003,301	A	1/1977	Norton	4,919,583	A	4/1990	Speakman, Jr.
4,004,700	A	1/1977	Empey	4,923,358	A	5/1990	Van Mill
4,057,153	A	11/1977	Weaver	4,946,068	A	8/1990	Erickson et al.
4,058,239	A	11/1977	Van Mill	4,947,760	A	8/1990	Dawson et al.
4,063,656	A	12/1977	Lambert	4,949,714	A	8/1990	Orr
4,073,410	A	2/1978	Melcher	4,954,975	A	9/1990	Kalata
4,125,195	A	11/1978	Sasadi	4,956,821	A	9/1990	Fenelon
4,138,163	A	2/1979	Calvert et al.	4,964,243	A	10/1990	Reiter
4,178,117	A	12/1979	Brugler	4,975,205	A	12/1990	Sloan
4,204,773	A	5/1980	Bates	4,975,305	A	12/1990	Biginelli
4,210,273	A	7/1980	Hegele	4,988,115	A	1/1991	Steinke
4,210,963	A	7/1980	Ricciardi et al.	4,995,522	A	2/1991	Barr
RE30,358	E	8/1980	Sensibar	5,004,400	A	4/1991	Handke
4,222,498	A	9/1980	Brock	5,028,002	A	7/1991	Whitford
4,227,732	A	10/1980	Kish	5,042,538	A	8/1991	Wiese
4,245,820	A	1/1981	Muryn	5,080,259	A	1/1992	Hadley
4,247,228	A	1/1981	Gray et al.	5,082,304	A	1/1992	Preller
4,247,370	A	1/1981	Nijhawan et al.	5,102,281	A	4/1992	Handke
4,258,953	A	3/1981	Johnson	5,102,286	A	4/1992	Fenton
4,265,266	A	5/1981	Kierbow et al.	5,105,858	A	4/1992	Levinson
4,278,190	A	7/1981	Oory et al.	5,131,524	A	7/1992	Uehara
4,282,988	A	8/1981	Hulbert, Jr.	5,167,719	A	12/1992	Tamaki
4,287,921	A	9/1981	Sanford	5,190,182	A	3/1993	Copas et al.
4,287,997	A	9/1981	Rolfe et al.	5,195,861	A	3/1993	Handke
4,289,353	A	9/1981	Merritt	5,199,826	A	4/1993	Lawrence
4,299,597	A	11/1981	Oetiker et al.	5,201,546	A	4/1993	Lindsay
4,306,895	A	12/1981	Thompson et al.	5,224,635	A	7/1993	Wise

US RE47,162 E

Page 3

5,253,746	A	10/1993	Friesen et al.	6,328,156	B1	12/2001	Otsman
5,253,776	A	10/1993	Decroix et al.	6,328,183	B1	12/2001	Coleman
5,265,763	A	11/1993	Heinrici et al.	6,374,915	B1	4/2002	Andrews
5,280,883	A	1/1994	Ibar	6,382,446	B1	5/2002	Hinkle et al.
5,286,158	A	2/1994	Zimmerman	6,390,742	B1	5/2002	Breeden
5,286,294	A	2/1994	Ebi et al.	6,401,983	B1	6/2002	McDonald et al.
5,290,139	A	3/1994	Hedrick	6,412,422	B2	7/2002	Dohr et al.
5,317,783	A	6/1994	Williamson	6,415,909	B1	7/2002	Mitchell et al.
5,320,046	A	6/1994	Hesch	6,416,271	B1	7/2002	Pigott et al.
5,324,097	A	6/1994	DeCap	6,422,413	B1	7/2002	Hall et al.
5,339,996	A	8/1994	Dubbert	6,425,725	B1	7/2002	Ehlers
5,345,982	A	9/1994	Nadeau et al.	6,450,522	B1	9/2002	Yamada et al.
5,358,137	A	10/1994	Shuert et al.	6,457,291	B2	10/2002	Wick
5,373,792	A	12/1994	Pileggi et al.	6,498,976	B1	12/2002	Ehlbeck et al.
5,392,946	A	2/1995	Holbrook et al.	6,505,760	B1	1/2003	Werner
5,402,915	A	4/1995	Hogan	6,508,387	B1	1/2003	Simon et al.
5,413,154	A	5/1995	Hurst et al.	6,508,615	B2	1/2003	Taylor
5,441,321	A	8/1995	Karpisek	6,523,482	B2	2/2003	Wingate
5,465,829	A	11/1995	Kruse	6,537,002	B2	3/2003	Gloystein
5,470,175	A	11/1995	Jensen et al.	6,575,614	B2	6/2003	Tosco et al.
5,470,176	A	11/1995	Corcoran et al.	6,660,693	B2	12/2003	Miller et al.
5,493,852	A	2/1996	Stewart	6,663,373	B2	12/2003	Yoshida
5,498,119	A	3/1996	Faivre	6,666,573	B2	12/2003	Grassi
5,507,514	A	4/1996	Jacques	6,675,066	B2	1/2004	Moshgbar
5,538,286	A	7/1996	Hoff	6,675,073	B2	1/2004	Kieman et al.
5,549,278	A	8/1996	Sidler	6,705,449	B2	3/2004	Wagstaffe
5,564,599	A	10/1996	Barber et al.	6,720,290	B2	4/2004	England et al.
5,570,743	A	11/1996	Padgett et al.	6,772,912	B1	8/2004	Schall et al.
5,590,976	A	1/1997	Kilheffer et al.	6,774,318	B2	8/2004	Beal et al.
5,601,181	A	2/1997	Lindhorst	6,776,235	B1	8/2004	England
5,602,761	A	2/1997	Spoerre et al.	6,783,032	B2	8/2004	Fons
5,613,446	A	3/1997	DiLuigi et al.	6,828,280	B2	12/2004	England et al.
5,617,974	A	4/1997	Sawyer	6,835,041	B1	12/2004	Albert
5,647,514	A	7/1997	Toth et al.	6,882,960	B2	4/2005	Miller
RE35,580	E	8/1997	Heider et al.	6,902,061	B1	6/2005	Elstone
5,667,298	A	9/1997	Musil	6,915,854	B2	7/2005	England et al.
5,690,466	A	11/1997	Gaddis et al.	6,953,119	B1	10/2005	Wening
5,697,535	A	12/1997	Coleman	6,955,127	B2	10/2005	Taylor
5,704,477	A *	1/1998	Hermann et al.	6,964,551	B1	11/2005	Friesen
5,718,555	A	2/1998	Swalheim	6,968,946	B2	11/2005	Shuert
5,722,552	A	3/1998	Olson	6,974,021	B1	12/2005	Boevers
5,722,688	A	3/1998	Garcia	7,008,163	B2	3/2006	Russell
5,746,258	A	5/1998	Huck	7,036,662	B2 *	5/2006	Schutz 206/386
5,772,390	A	6/1998	Walker	7,051,661	B2	5/2006	Herzog et al.
5,782,524	A	7/1998	Heider et al.	7,084,095	B2	8/2006	Lee et al.
5,785,421	A	7/1998	Milek	7,104,425	B2	9/2006	Le Roy
5,803,296	A	9/1998	Olson	7,140,516	B2	11/2006	Bothor
5,806,863	A	9/1998	Heger et al.	7,146,914	B2	12/2006	Morton et al.
5,836,480	A	11/1998	Epp et al.	7,201,290	B2	4/2007	Mehus et al.
5,845,799	A	12/1998	Deaton	7,214,028	B2	5/2007	Boasso
5,876,172	A	3/1999	Di Rosa	7,240,681	B2	7/2007	Saik
5,906,471	A	5/1999	Schwoerer	7,252,309	B2	8/2007	Eng Goh
5,911,337	A	6/1999	Bedecker	7,284,579	B2	10/2007	Elgan et al.
5,927,558	A	7/1999	Bruce	7,284,670	B2	10/2007	Schmid
5,960,974	A	10/1999	Kee	7,316,333	B2	1/2008	Wegner
5,971,219	A	10/1999	Karpisek	7,367,271	B2	5/2008	Early
5,993,202	A	11/1999	Yamazaki et al.	7,377,219	B2	5/2008	Brandt
5,997,099	A	12/1999	Collins	7,410,623	B2	8/2008	Mehus et al.
6,002,063	A	12/1999	Bilak et al.	7,475,796	B2	1/2009	Garton
6,006,918	A	12/1999	Hart	7,500,817	B2	3/2009	Furrer et al.
6,069,118	A	5/2000	Hinkel et al.	7,513,280	B2	4/2009	Brashears et al.
6,092,974	A	7/2000	Roth	7,591,386	B2	9/2009	Hooper
6,109,486	A	8/2000	Lee	7,640,075	B2	12/2009	Wietgreffe
6,120,233	A	9/2000	Adam	7,695,538	B2	4/2010	Cheng
D431,358	S	10/2000	Willemsen	7,753,637	B2	7/2010	Benedict et al.
6,155,175	A	12/2000	Rude et al.	7,798,558	B2	9/2010	Messier
6,186,654	B1	2/2001	Gunteret et al.	7,802,958	B2	9/2010	Garcia et al.
6,190,107	B1	2/2001	Lanigan et al.	7,803,321	B2	9/2010	Lark et al.
6,192,985	B1	2/2001	Hinkel et al.	7,837,427	B2	11/2010	Beckel
6,196,590	B1	3/2001	Kim	7,841,394	B2	11/2010	McNeel et al.
6,205,938	B1	3/2001	Foley et al.	7,845,516	B2	12/2010	Pessin et al.
6,247,594	B1	6/2001	Garton	7,858,888	B2	12/2010	Lucas et al.
6,263,803	B1	7/2001	Dohr et al.	7,867,613	B2	1/2011	Smith
6,269,849	B1	8/2001	Fields	7,878,327	B2 *	2/2011	Cassina 206/386
6,273,154	B1	8/2001	Laug	7,891,304	B2	2/2011	Herzog et al.
6,283,212	B1	9/2001	Hinkel et al.	7,891,523	B2	2/2011	Mehus et al.
6,286,986	B2	9/2001	Grimland	7,896,198	B2	3/2011	Mehus et al.
6,296,109	B1	10/2001	Nohl	7,897,223	B2 *	3/2011	Schubbach et al. 428/35.7
6,306,800	B1	10/2001	Samuel et al.	7,921,783	B2	4/2011	Forbes et al.

US RE47,162 E

Page 4

7,958,995 B2 *	6/2011	Dedmon et al.	206/386	2008/0017905 A1	7/2008	McGough et al.
7,967,161 B2	6/2011	Townsend		2008/0029546 A1	7/2008	Schuld
7,980,803 B2	7/2011	Brandstätter et al.		2008/0179324 A1	7/2008	McGough et al.
7,997,213 B1	8/2011	Gauthier et al.		2008/0213073 A1	9/2008	Benedict et al.
7,997,623 B2	8/2011	Williams		2008/0226434 A1	9/2008	Smith et al.
8,083,083 B1	12/2011	Mohns		2008/0264641 A1	10/2008	Slabaugh et al.
8,201,520 B2	6/2012	Meritt		2008/0277423 A1	11/2008	Garton
8,313,278 B2	11/2012	Simmons et al.		2008/0315558 A1	12/2008	Cesterino
8,366,349 B2	2/2013	Beachner		2009/0038242 A1	2/2009	Cope
8,375,690 B2	2/2013	LaFargue et al.		2009/0078410 A1	3/2009	Krenek et al.
8,379,927 B2	2/2013	Taylor		2009/0278326 A1	11/2009	Rowland et al.
8,387,824 B2	3/2013	Wietgreffe		2010/0021258 A1	1/2010	Kim
8,393,502 B2	3/2013	Renyer et al.		2010/0037572 A1	2/2010	Cheng
8,424,666 B2	4/2013	Berning et al.		2010/0038143 A1	2/2010	Burnett et al.
D688,351 S	8/2013	Oren		2010/0040446 A1	2/2010	Renyer
8,505,780 B2	8/2013	Oren		2010/0065466 A1	3/2010	Perkins
8,544,419 B1	10/2013	Spalding et al.		2010/0108711 A1	5/2010	Wietgreffe
8,545,148 B2	10/2013	Wanek-Pusset et al.		2010/0129193 A1	5/2010	Sherrer
8,562,022 B2	10/2013	Nadeau et al.		2010/0199668 A1	8/2010	Coustou et al.
8,573,387 B2	11/2013	Trimble		2010/0207371 A1	8/2010	Van Houdt et al.
8,573,917 B2	11/2013	Renyer		2010/0278621 A1	11/2010	Redekop
8,585,341 B1	11/2013	Oren		2010/0288603 A1	11/2010	Schafer
D694,670 S	12/2013	Oren		2010/0320727 A1	12/2010	Haut et al.
8,616,370 B2	12/2013	Allegretti		2011/0011893 A1	1/2011	Cerny
8,622,251 B2	1/2014	Oren		2011/0017693 A1	1/2011	Thomas
8,636,832 B2	1/2014	Stutzman et al.		2011/0101040 A1	5/2011	Weissbrod
8,646,641 B2	2/2014	Moir		2011/0109073 A1	5/2011	Williams
8,668,430 B2	3/2014	Oren		2011/0121003 A1	5/2011	Moir
D703,582 S	4/2014	Oren		2011/0127178 A1	6/2011	Claussen
8,820,559 B2	9/2014	Beitler et al.		2011/0160104 A1	6/2011	Wu et al.
8,827,118 B2	9/2014	Oren		2011/0162838 A1	7/2011	Mackenzie et al.
8,887,914 B2	11/2014	Allegretti		2011/0168593 A1	7/2011	Neufeld et al.
8,905,266 B2	12/2014	De Brabanter		2011/0222983 A1	9/2011	Dugic et al.
8,915,691 B2	12/2014	Mintz		2011/0297702 A1	12/2011	Hildebrandt et al.
9,051,801 B1	6/2015	Mintz		2012/0017812 A1	1/2012	Renyer
9,052,034 B1	6/2015	Wegner et al.		2012/0103848 A1	5/2012	Allegretti et al.
D740,556 S	10/2015	Huber		2012/0219391 A1	8/2012	Teichrob et al.
9,162,261 B1	10/2015	Smith		2012/0247335 A1	10/2012	Stutzman et al.
9,267,266 B2	2/2016	Cutler et al.		2012/0255539 A1	10/2012	Kolecki
9,309,064 B2	4/2016	Sheesley		2013/0004272 A1	1/2013	Mintz
D780,883 S	3/2017	Schaffner et al.		2013/0022441 A1	1/2013	Uhlyn et al.
D783,771 S	4/2017	Stegemoeller et al.		2013/0206415 A1	8/2013	Sheesley
D783,772 S	4/2017	Stegemoeller, III et al.		2013/0209204 A1	8/2013	Sheesley
9,624,036 B2	4/2017	Luharuka et al.		2013/0233545 A1	9/2013	Mahoney
9,688,492 B2	6/2017	Stutzman et al.		2013/0284729 A1	10/2013	Cook et al.
9,796,318 B1	10/2017	Nolasco		2013/0309052 A1	11/2013	Luharuka
2001/0022308 A1	9/2001	Epp et al.		2013/0323005 A1	12/2013	Rexius et al.
2001/0038777 A1	11/2001	Cassell		2014/0020765 A1	1/2014	Oren
2001/0045338 A1	11/2001	Ransil et al.		2014/0020892 A1	1/2014	Oren
2002/0134550 A1	9/2002	Leeson et al.		2014/0023465 A1	1/2014	Oren et al.
2002/0139643 A1	10/2002	Peltier et al.		2014/0034662 A1	2/2014	Chalmers et al.
2003/0006248 A1	1/2003	Gill et al.		2014/0044507 A1	2/2014	Naizer et al.
2003/0111470 A1	6/2003	Fouillet et al.		2014/0093319 A1	4/2014	Harris et al.
2003/0145418 A1	8/2003	Ikeda et al.		2014/0097182 A1	4/2014	Sheesley
2003/0156929 A1	8/2003	Russell		2014/0166647 A1	6/2014	Sheesley
2004/0065699 A1	4/2004	Schoer et al.		2014/0203046 A1	7/2014	Allegretti
2004/0074922 A1	4/2004	Bother et al.		2014/0234059 A1	8/2014	Thomeer
2004/0084874 A1	5/2004	McDougall et al.		2014/0321950 A1	10/2014	Krenek et al.
2004/0206646 A1	10/2004	Goh		2014/0377042 A1	12/2014	McMahon
2004/0245284 A1	12/2004	Mehus et al.		2015/0004895 A1	1/2015	Hammers et al.
2005/0158158 A1	7/2005	Porta		2015/0069052 A1	3/2015	Allegretti et al.
2005/0201851 A1	9/2005	Jonkka		2015/0079890 A1	3/2015	Stutzman et al.
2006/0012183 A1	1/2006	Marchiori et al.		2015/0086308 A1	3/2015	McIver et al.
2006/0027582 A1	2/2006	Beach		2015/0110565 A1	4/2015	Harris
2006/0053582 A1	3/2006	Engel et al.		2015/0159232 A1	6/2015	Zucchi et al.
2006/0091072 A1	5/2006	Schmid et al.		2015/0209829 A1	7/2015	De Siqueira et al.
2006/0151058 A1	7/2006	Salaoras et al.		2016/0148813 A1	5/2016	Rogers et al.
2006/0180062 A1	8/2006	Furrer et al.		2016/0185522 A1	6/2016	Herman et al.
2006/0180232 A1	8/2006	Glewwe et al.		2016/0280480 A1	9/2016	Smith et al.
2006/0239806 A1	10/2006	Yelton		2017/0129721 A1	5/2017	Harris et al.
2006/0267377 A1	11/2006	Lusk et al.		2017/0217353 A1	8/2017	Vander Pol
2006/0277783 A1	12/2006	Garton		2018/0009401 A1	1/2018	Miller et al.
2006/0289166 A1	12/2006	Stromquist et al.				
2007/0096537 A1	5/2007	Hicks				
2007/0125543 A1	6/2007	McNeel et al.				
2007/0194564 A1	8/2007	Garceau et al.				
2008/0008562 A1	1/2008	Beckel et al.				
2008/0029553 A1	2/2008	Culleton				
2008/0058228 A1	3/2008	Wilson				

FOREIGN PATENT DOCUMENTS

CA	2023138	2/1992
CA	2791088	3/2013
CN	2037354	5/1989
CN	2059909	8/1990

CN	2075632	4/1991
CN	1329562	1/2002
CN	2517684	10/2002
CN	1635965	7/2005
CN	2913250	6/2007
CN	201390486	1/2010
CN	101823630	9/2010
CN	102101595	6/2011
CN	201881469	6/2011
CN	102114985	7/2011
CN	203033469	7/2013
CN	103350017	10/2013
DE	3108121	9/1982
DE	3342281	6/1985
DE	4217329	5/1993
DE	20317967	3/2004
EP	0019967	12/1980
EP	322283	6/1989
EP	0564969	10/1993
EP	0997607	5/2000
EP	1052194	11/2000
EP	1167236	1/2002
EP	1775190	4/2007
EP	1795467	6/2007
EP	2062832	5/2009
EP	2311757	4/2011
FR	2173445	10/1973
FR	2640598	6/1990
GB	1296736	11/1972
GB	2204847	11/1988
GB	2374864	10/2002
JP	S4871029	9/1973
JP	S4876041	9/1973
JP	S58161888	10/1983
JP	410087046	4/1998
JP	10264882	10/1998
JP	11034729	2/1999
MX	2012011046	5/2013
WO	1990008082	7/1990
WO	1992002437	2/1992
WO	1993001997	2/1993
WO	1993006031	4/1993
WO	1996025302	8/1996
WO	2006039757	4/2006
WO	2007005054	1/2007
WO	2007057398	5/2007
WO	2007061310	5/2007
WO	2008012513	1/2008
WO	2010026235	3/2010
WO	2012021447	2/2012
WO	2012058059	5/2012
WO	2011099358	6/2013

OTHER PUBLICATIONS

International Search Report for related International Application No. PCT/US2012/066639, dated Feb. 25, 2013.

International Search Report for related International Application No. PCT/US2013/035442, dated Jun. 23, 2013.

International Search Report for related International Application No. PCT/US2013/032819, dated May 23, 2013.

International Search Report for related International Application No. PCT/US2013/049028, dated Mar. 4, 2014.

International Preliminary Report on Patentability for PCT/US2012/066639, dated Feb. 26, 2013.

International Preliminary Report on Patentability for PCT/US2013/032819, Sep. 23, 2014.

International Search Report for PCT/US15/35635, dated Oct. 30, 2015. (12 pages).

International Search Report for PCT/US2015/012990, dated May 6, 2015. (15 pages).

FS-35 Desert Frac-Sanders. NOV (National Oilwell Varco). Mar. 19, 2012. (https://web.archive.org/web/20120319070423/http://www.nov.com/Well_Service_and_Completion/Frac_Sand_Handling_Equipment/Frac_Sanders/FS-35.aspx).

International Search Report for PCT/US2015/024810, Jul. 8, 2015. (13 pages).

SandBox Logistics, "Mine to Wellhead Logistics," Houston, TX, May 2013.

SandBox Logistics, screenshots from video made in Apr. 2013 and publicly shown in May 2013, Arnegard, North Dakota.

European Search Report for Application No. 15167039.5, dated Sep. 8, 2015. (7 pages).

Non-Final Office Action dated Oct. 27, 2016 for co-pending U.S. Appl. No. 15/219,676.

Non-Final Office Action dated Nov. 9, 2016 for co-pending U.S. Appl. No. 14/948,494.

Final Office Action dated Nov. 4, 2016 for co-pending U.S. Appl. No. 14/738,485.

Non-Final Office Action dated Apr. 3, 2017 for co-pending U.S. Appl. No. 13/555,635.

Non-Final Office Action dated Feb. 14, 2017 for co-pending U.S. Appl. No. 14/943,111.

Final Office Action dated Mar. 7, 2017 for co-pending U.S. App. No. 15/144,296.

Non-Final Office Action dated Apr. 6, 2017 for co-pending U.S. Appl. No. 13/768,962.

Non-Final Office Action dated Mar. 6, 2017 for co-pending U.S. Appl. No. 15/152,744.

Non-Final Office Action dated Feb. 24, 2017 for co-pending U.S. Appl. No. 14/943,182.

Solaris Oilfield Infrastructure, Mobile Sand Silo System, 2016.

Final Office Action dated Sep. 27, 2016 for co-pending U.S. Appl. No. 13/555,635.

Non-Final Office Action dated Mar. 23, 2016 for co-pending U.S. Appl. No. 13/555,635.

Final Office Action dated Jul. 30, 2015 for co-pending U.S. Appl. No. 13/555,635.

Non-Final Office Action dated Oct. 22, 2014 for co-pending U.S. Appl. No. 13/555,635.

Final Office Action dated Jun. 21, 2016 for co-pending U.S. Appl. No. 13/628,702.

Non-Final Office Action dated Feb. 23, 2016 for co-pending U.S. Appl. No. 13/628,702.

Final Office Action dated Sep. 22, 2015 for co-pending U.S. Appl. No. 13/628,702.

Non-Final Office Action dated Jul. 28, 2015 for co-pending U.S. Appl. No. 13/628,702.

Final Office Action dated Mar. 24, 2015 for co-pending U.S. Appl. No. 13/628,702.

Non-Final Office Action dated Sep. 18, 2014 for co-pending U.S. Appl. No. 13/628,702.

Final Office Action dated Jun. 27, 2016 for co-pending U.S. Appl. No. 14/831,924.

Non-Final Office Action dated Feb. 16, 2016 for co-pending U.S. Appl. No. 14/831,924.

Final Office Action dated Jun. 27, 2016 for co-pending U.S. Appl. No. 14/923,920.

Non-Final Office Action dated Feb. 9, 2016 for co-pending U.S. Appl. No. 14/923,920.

Final Office Action dated Sep. 15, 2016 for co-pending U.S. Appl. No. 14/943,111.

Non-Final Office Action dated Apr. 5, 2016 for co-pending U.S. Appl. No. 14/943,111.

Final Office Action dated Jul. 18, 2016 for co-pending U.S. Appl. No. 14/948,494.

Non-Final Office Action dated Apr. 8, 2016 for co-pending U.S. Appl. No. 14/948,494.

Non-Final Office Action dated Sep. 6, 2016 for co-pending U.S. Appl. No. 15/144,296.

Non-Final Office Action dated Jul. 25, 2016 for co-pending U.S. Appl. No. 13/660,855.

Final Office Action dated Apr. 28, 2016 for co-pending U.S. Appl. No. 13/660,855.

Non-Final Office Action dated Oct. 6, 2015 for co-pending U.S. Appl. No. 13/660,855.

Final Office Action dated Aug. 6, 2015 for co-pending U.S. Appl. No. 13/660,855.

- Non-Final Office Action dated Apr. 29, 2015 for co-pending U.S. Appl. No. 13/660,855.
- Final Office Action dated Dec. 17, 2014 for co-pending U.S. Appl. No. 13/660,855.
- Non-Final Office Action dated Sep. 4, 2014 for co-pending U.S. Appl. No. 13/660,855.
- Final Office Action dated Sep. 24, 2013 for co-pending U.S. Appl. No. 13/660,855.
- Non-Final Office Action dated May 14, 2013 for co-pending U.S. Appl. No. 13/660,855.
- Non-Final Office Action dated Jul. 5, 2016 for co-pending U.S. Appl. No. 14/996,362.
- Non-Final Office Action dated Jul. 6, 2016 for co-pending U.S. Appl. No. 15/144,450.
- Final Office Action dated Sep. 29, 2016 for co-pending U.S. Appl. No. 13/768,962.
- Non-Final Office Action dated Apr. 5, 2016 for co-pending U.S. Appl. No. 13/768,962.
- Final Office Action dated Oct. 9, 2015 for co-pending U.S. Appl. No. 13/768,962.
- Non-Final Office Action dated May 1, 2015 for co-pending U.S. Appl. No. 13/768,962.
- Non-Final Office Action dated Jul. 18, 2016 for co-pending U.S. Appl. No. 15/152,744.
- Non-Final Office Action dated Apr. 13, 2016 for co-pending U.S. Appl. No. 14/738,485.
- Non-Final Office Action dated Sep. 7, 2016 for co-pending U.S. Appl. No. 14/841,942.
- Final Office Action dated May 12, 2016 for co-pending U.S. App. No. 14/841,942.
- Non-Final Office Action dated Nov. 30, 2015 for co-pending U.S. Appl. No. 14/841,942.
- Non-Final Office Action dated Jul. 21, 2016 for co-pending U.S. Appl. No. 15/083,596.
- Non-Final Office Action dated Aug. 19, 2016 for co-pending U.S. Appl. No. 15/084,611.
- Non-Final Office Action dated Sep. 6, 2016 for co-pending U.S. Appl. No. 15/143,942.
- Final Office Action dated Sep. 1, 2016 for co-pending U.S. Appl. No. 14/848,447.
- Non-Final Office Action dated Apr. 8, 2016 for co-pending U.S. Appl. No. 14/848,447.
- SandBox Logistics, LLC, screenshots from video dated Oct. 11, 2013.
- SandBox Logistics, LLC, screenshots from video dated Apr. 10, 2013.
- Grit Energy Solutions, LLC, Fidelity, Screenshots from video dated May 16, 2014.
- Grit Energy Solutions, LLC, Gate, Screenshots from video dated Dec. 6, 2013, <https://www.youtube.com/user/gritstack>.
- Grit Energy Solutions, LLC, Screen, Screenshots from video dated Dec. 6, 2013, <https://www.youtube.com/user/gritstack>.
- Grit Energy Solutions, LLC, The Grit Stack System—Live Frac, Screenshots from video dated Jun. 15, 2015, <https://www.youtube.com/user/gritstack>.
- Grit Energy Solutions, LLC, The Grit Stack System, Screenshots from video dated Feb. 7, 2014, <https://www.youtube.com/user/gritstack>.
- Frac Sand Primer by Brian D. Olmen, Kelrick, LLC, from Hydraulic Fracturing by Michael Berry Smith and Carl Montgomery (CRC Press, Dec. 16, 2015), p. 384.
- Premier Silica LLC, Sands Application in the Energy Market, Irving, TX, Copyright 2016.
- Getty, John, Montana Tech; ASTM International, Overview of Proppants and Existing Standards and Practices, Jacksonville, FL, Jan. 29, 2013.
- PCT International Search Report for PCT/US15/49074, dated Dec. 17, 2015. (11 pages).
- PCT International Search Report for PCT/US15/57601, May 6, 2016. (11 pages).
- SandBox Logistics, LLC, screenshots from video dated Sep. 19, 2013.
- SandBox Logistics, LLC, screenshots from video dated Aug. 22, 2014.
- Non-Final Office Action dated May 13, 2016 for co-pending U.S. Appl. No. 14/986,826.
- Final Office Action dated Sep. 15, 2016 for co-pending U.S. Appl. No. 14/922,836.
- Non-Final Office Action dated Feb. 4, 2016 for co-pending U.S. Appl. No. 14/922,836.
- Final Office Action dated Aug. 25, 2016 for co-pending U.S. Appl. No. 14/927,614.
- Non-Final Office Action dated Mar. 1, 2016 for co-pending U.S. Appl. No. 14/927,614.
- Non-Final Office Action dated Apr. 29, 2016 for co-pending U.S. App. No. 14/943,182.
- Final Office Action dated Sep. 15, 2016 for co-pending U.S. Appl. No. 14/882,973.
- Non-Final Office Action dated Feb. 11, 2016 for co-pending U.S. Appl. No. 14/882,973.
- Non-Final Office Action dated Aug. 11, 2016 for co-pending U.S. Appl. No. 13/625,675.
- Final Office Action dated Nov. 11, 2015 for co-pending U.S. Appl. No. 13/625,675.
- Non-Final Office Action dated Mar. 11, 2015 for co-pending U.S. Appl. No. 13/625,675.
- Non-Final Office Action dated Dec. 28, 2016 for co-pending U.S. Appl. No. 13/628,702.
- Non-Final Office Action dated Jan. 13, 2017 for co-pending U.S. Appl. No. 14/923,920.
- Final Office Action dated Jan. 12, 2017 for co-pending U.S. Appl. No. 14/841,942.
- Non-Final Office Action dated Dec. 23, 2016 for co-pending U.S. Appl. No. 14/485,686.
- Non-Final Office Action dated Jan. 27, 2017 for co-pending U.S. Appl. No. 14/485,687.
- Non-Final Office Action dated Dec. 20, 2016 for co-pending U.S. Appl. No. 14/831,924.
- Final Office Action dated Jan. 19, 2017 for co-pending U.S. Appl. No. 13/660,855.
- Final Office Action dated Nov. 25, 2016 for co-pending U.S. Appl. No. 15/152,744.
- Non-Final Office Action dated Dec. 15, 2016 for co-pending U.S. Appl. No. 14/848,447.
- Non-Final Office Action dated Dec. 9, 2016 for co-pending U.S. Appl. No. 14/927,614.
- International Search Report for PCT Application No. PCT/US2016/050859 dated Dec. 9, 2016.
- International Search Report and Written Opinion for PCT/US2017/012271, dated May 22, 2017.
- Non-Final Office Action dated Apr. 24, 2017 for co-pending U.S. Appl. No. 14/738,485.
- Final Office Action dated May 4, 2017 for co-pending U.S. Appl. No. 15/143,942.
- Final Office Action dated May 30, 2017 for co-pending U.S. Appl. No. 13/625,675.
- Final Office Action dated Apr. 19, 2017 for co-pending U.S. Appl. No. 15/219,640.
- Non-Final Office Action dated Jun. 1, 2017 for co-pending U.S. Appl. No. 15/219,640.
- Final Office Action dated May 2, 2017 for co-pending U.S. Appl. No. 15/219,676.
- Non-Final Office Action dated May 10, 2017 for co-pending U.S. Appl. No. 14/882,973.
- Yergin, Daniel, The Quest: Energy, Security, and the Remaking of the Modern World, 2011.
- Gold, Russell, The Boom: How Fracking Ignited the American Energy Revolution and Changed the World, 2014.
- Yergin, Daniel, Stepping on the Gas, Wall Street Journal, Apr. 2, 2011.
- Raimi, Daniel et al., Dunn County and Wafford City, North Dakota: A case study of the fiscal effects of Bakken shale development, Duke University Energy Initiative, May 2016.
- Local Economic Impacts Related to Marcellus Shale Development, The Center for Rural Pennsylvania, Sep. 2014.

Eagle Ford Shale Task Force Report, Railroad Commission of Texas, Convened and Chaired by David Porter, Mar. 2013.

Sandbox Logistics LLC et al v. Grit Energy Solutions LLC, 3:16-cv-00012, 73 Parties' P.R. 4-3 Joint Claim Construction and Prehearing Statement by Oren Technologies LLC, SandBox Enterprises LLC, SandBox Logistics LLC, Nov. 17, 2016.

Beard, Tim, Fracture Design in Horizontal Shale Wells—Data Gathering to Implementation, EPA Hydraulic Fracturing Workshop, Mar. 10-11, 2011.

Economic Impact of the Eagle Ford Shale, Center for Community and Business Research at the University of Texas at San Antonio's Institute for Economic Development, Sep. 2014.

Kelsey, Timothy W. et al., Economic Impacts of Marcellus Shale in Pennsylvania: Employment and Income in 2009, The Marcellus Shale Education & Training Center, Aug. 2011.

2006 Montana Commercial Vehicle Size and Weight and Safety Trucker's Handbook, Montana Department of Transportation Motor Carrier Services Division, Fifth Edition, Jun. 2010.

Budzynski, Brian W., Never Meant to Take the Weight, Roads & Bridges, Apr. 2015.

Interstate Weight Limits, 23 C.F.R. § 658, Apr. 1, 2011.

VIN Requirements, 49 C.F.R. § 565, Oct. 1, 2011.

Benson, Mary Ellen et al., Frac Sand in the United States—A Geological and Industry Overview, U.S. Department of the Interior, U.S. Geological Survey, 2015-2017.

Beekman, Thomas J. et al., Transportation Impacts of the Wisconsin Fracture Sand Industry, Wisconsin Department of Transportation, Mar. 2013.

U.S. Silica Company, Material Safety Data Sheet, Jan. 2011.

Texas Transportation Code, Chapter 621, General Provisions Relating to Vehicle Size and Weight (Sec. 621.101 effective Sep. 1, 2005 and Section 621.403 effective Sep. 1, 1995).

Garner, Dwight, Visions of an Age When Oil Isn't King, New York Times, Sep. 20, 2011.

File History for U.S. Appl. No. 61/538,616, Robert A. Harris, Sep. 23, 2011. (21 pages).

Arrows Up, Inc., Jumbo BTS—Bulk Transport System, Aug. 1, 2014.

Arrows Up, Inc., Reusable Packaging Association, Member Spotlight: John Allegrelli, President & CEO, Arrows Up, Inc., Jun. 23, 2016.

Seed Today, Arrows Up, Inc. Bulk Transport System (BTS), Country Journal Publishing Co., Decatur, IL, Mar. 2, 2011.

SeedQuest, Arrows Up, Inc. launches innovative bulk transport system for see, Barrington, IL, Mar. 2, 2011.

Monster Tanks, Inc., Sand Monster Website, <http://monstertanksinc.com/sandmonster.html>, 2012.

Final Office Action dated Oct. 13, 2017 for co-pending U.S. Appl. No. 15/398,950.

Non-Final Office Action dated Sep. 21, 2017 for co-pending U.S. Appl. No. 15/413,822.

Non-Final Office Action dated Oct. 5, 2017 for co-pending U.S. Appl. No. 14/848,447.

Final Office Action dated Sep. 21, 2017 for co-pending U.S. Appl. No. 14/922,836.

Non-Final Office Action dated Sep. 27, 2017 for co-pending U.S. Appl. No. 14/996,362.

Non-Final Office Action dated Sep. 28, 2017 for co-pending U.S. Appl. No. 13/628,702.

Final Office Action dated Jan. 22, 2018 for co-pending U.S. Appl. No. 13/628,702.

Final Office Action dated Jan. 25, 2018 for co-pending U.S. Appl. No. 15/602,666.

Final Office Action dated Feb. 6, 2018 for co-pending U.S. Appl. No. 15/475,354.

Non-Final Office Action dated Feb. 9, 2018 for co-pending U.S. Appl. No. 15/587,926.

Non-Final Office Action dated Feb. 15, 2018 for co-pending U.S. Appl. No. 14/922,836.

Final Office Action dated Dec. 27, 2017 for co-pending U.S. Appl. No. 14/943,182.

Non-Final Office Action dated Sep. 8, 2017 for co-pending U.S. Appl. No. 15/475,354.

Non-Final Office Action dated Sep. 8, 2017 for co-pending U.S. Appl. No. 15/143,942.

International Search Report and Written Opinion for PCT/US17/34603 dated Aug. 22, 2017.

Non-Final Office Action dated Aug. 30, 2017 for co-pending U.S. Appl. No. 14/943,182.

Non-Final Office Action dated Aug. 4, 2017 for co-pending U.S. Appl. No. 13/625,675.

Non-Final Office Action dated Jul. 26, 2017 for co-pending U.S. Appl. No. 15/463,201.

Final Office Action dated Jul. 27, 2017 for co-pending U.S. Appl. No. 14/738,485.

Non-Final Office Action dated Aug. 3, 2017 for co-pending U.S. Appl. No. 15/219,676.

Beckwith, Robin, Proppants: Where in the World, Proppant Shortage, JPT, Apr. 2011 (6 pages).

Kullman, John, The Complicated World of Proppant Selection . . . , South Dakota School of Mines & Technology, Oct. 2011 (65 pages).

Lafollette, Randy, Key Considerations for Hydraulic Fracturing of Gas Shales, BJ Services Company, Sep. 9, 2010 (53 pages).

WW Trailers Inc., Model GN2040EZ datasheet, Portland, OR, Jan. 2007 (4pages).

WW Trailers Inc., Model GN204S9A datasheet, Portland, OR, Jan. 2007 (4pages).

Smith, Ryan E., Prefab Architecture, A Guide to Modular Design and Construction, John Wiley & Sons, Inc., 2010.

OSHA-NIOSH, Hazard Alert: Worker Exposure to Silica during Hydraulic Fracturing, Jun. 2012.

Tremoglie, Michael P., Legal NewsLine, OSHA, NIOSH issue Tracking health alert (/stories/510527440-oshaniosh-issue-fracking-health-alert), Jun. 25, 2012.

Beckwith, Robin, Proppants: Where in the World, Journal of Petroleum Technology, Apr. 2011.

Final Office Action dated Feb. 27, 2018 for co-pending U.S. Appl. No. 15/143,942.

Non-Final Office Action dated Apr. 26, 2018 for co-pending U.S. Appl. No. 15/616,783.

Final Office Action dated Apr. 23, 2018 for co-pending U.S. Appl. No. 14/848,447.

Final Office Action dated Mar. 16, 2018 for co-pending U.S. Appl. No. 14/996,362.

Final Office Action dated Mar. 14, 2018 for co-pending U.S. Appl. No. 15/144,450.

Randy Lafollette, Key Considerations for Hydraulic Fracturing of Gas Shales, May 12, 2010.

Case No. 4:17-cv-00589, Plaintiffs' P.R. 3-1 and 3-2 Infringement Contentions and Disclosures, Jun. 8, 2017.

ISO 1496-1: International Standard, Series 1 Freight Containers—Specification and Testing—Part 1, General Cargo Containers, Fifth Edition, Aug. 15, 1990.

ISO 6346: International Standard, Freight Containers—Coding, Identification and Marking, Third Edition, Dec. 1, 1995.

ISO/IEC 15416: International Standard, Information Technology—Automatic Identification and Data Capture Techniques—Bar Code Print Quality Test Specification—Linear Symbols, First Edition, Aug. 15, 2000.

Hoel, Lester A., Giuliano, Genevieve and Meyer, Michael D., Portions of Intermodal Transportation: Moving Freight in a Global Economy, Copyright Eno Transportation Foundation, 2011.

* cited by examiner

Primary Examiner — Philip S Hyder

(74) Attorney, Agent, or Firm — Hogan Lovells US LLP

(57)

CLAIM

The ornamental design for a proppant vessel, as shown and described.

DESCRIPTION

This application is a reissue application of U.S. Pat. No. D688,351 issued on Aug. 20, 2013, from U.S. application Ser. No. 29/436,170, filed on Nov. 2, 2012. Application Ser.

No. 29/518,134 filed Feb. 20, 2015, is a divisional reissue application of this reissue application. Application Ser. No. 29/518,135 filed Feb. 20, 2015, is also a divisional reissue application of this reissue application.

Notice: More than one reissue application has been filed for the reissue of U.S. Pat. No. D688,351. The reissue applications are application Ser. No. 29/500,681 (the present application) filed Aug. 27, 2014, application Ser. No. 29/518,134, filed Feb. 20, 2015, and application Ser. No. 29/518,135 filed Feb. 20, 2015.

FIG. 1 is an upper perspective view of the proppant vessel showing our design[.];

FIG. 2 is a front [elevation] elevational view [thereof] of FIG. 1;

FIG. 3 is a rear [elevation] elevational view [thereof] of FIG. 1;

FIG. 4 is a right side [elevation] elevational view [thereof] of FIG. 1;

FIG. 5 is [an opposite] a left side [elevation] elevational view [thereof] of FIG. 1;

FIG. 6 is a top plan view [thereof] of FIG. 1; and,

FIG. 7 is a bottom plan view [thereof.] of FIG. 1;

FIG. 8 is an upper perspective view of an alternate embodiment of the proppant vessel embodying our design;

FIG. 9 is a front elevational view of the embodiment of FIG. 8;

FIG. 10 is a rear elevational view of the embodiment of FIG. 8;

FIG. 11 is a right side elevational view of the embodiment of FIG. 8;

FIG. 12 is a left side elevational view of the embodiment of FIG. 8;

FIG. 13 is a top plan view of the embodiment of FIG. 8;

FIG. 14 is a bottom plan view of the embodiment of FIG. 8;

FIG. 15 is an upper perspective view of another alternate embodiment of the proppant vessel embodying our design;

FIG. 16 is a front elevational view of the embodiment of FIG. 15;

FIG. 17 is a rear elevational view of the embodiment of FIG. 15;

FIG. 18 is a right side elevational view of the embodiment of FIG. 15;

FIG. 19 is a left side elevational view of the embodiment of FIG. 15;

FIG. 20 is a top plan view of the embodiment of FIG. 15; and,

FIG. 21 is a bottom plan view of the embodiment of FIG. 15.

[The features presented in broken lines are for environmental purposes only and form no part of the claimed design]

The broken lines depict portions of the proppant vessel in which the design is embodied that are not considered part of the claimed design.

1 Claim, 6 Drawing Sheets

Matter enclosed in heavy brackets [] appears in the original patent but forms no part of this reissue; matter printed in italics indicates the additions made by reissue.

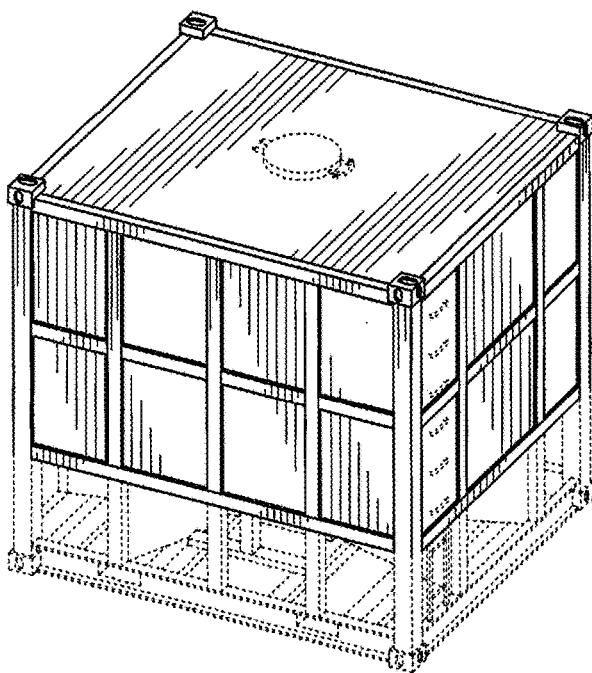


FIG. 1

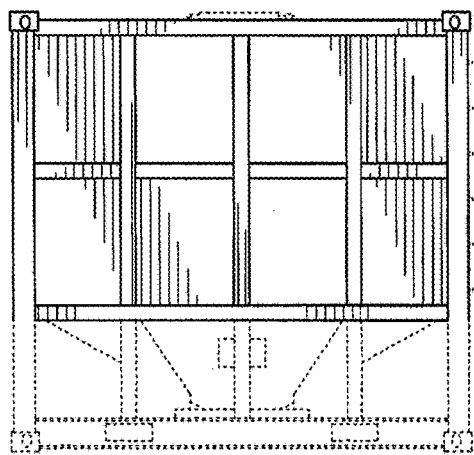


FIG. 2

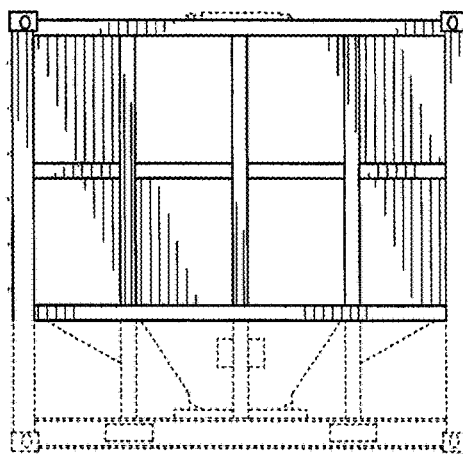


FIG. 3

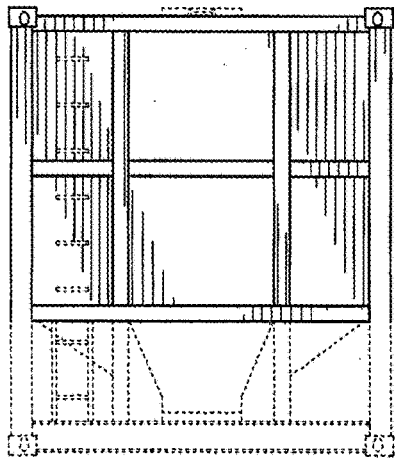


FIG. 4

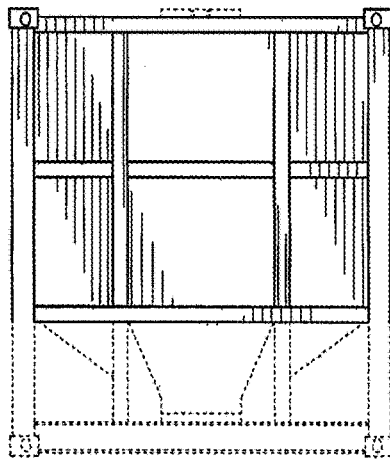


FIG. 5

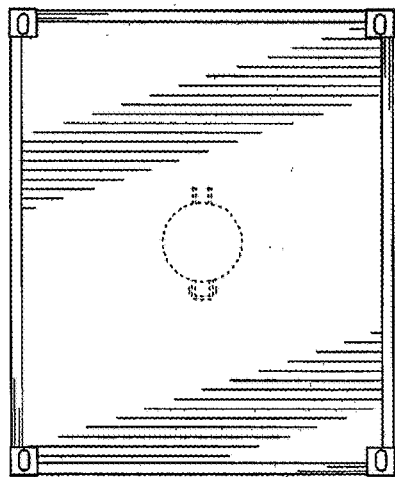


FIG. 6

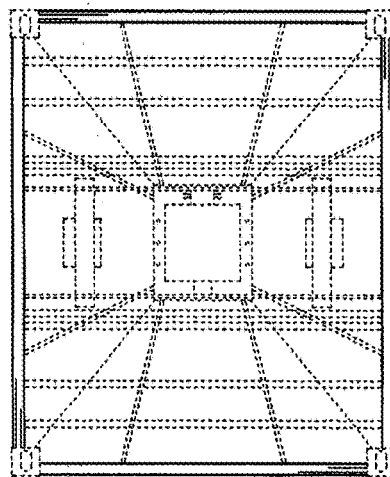


FIG. 7

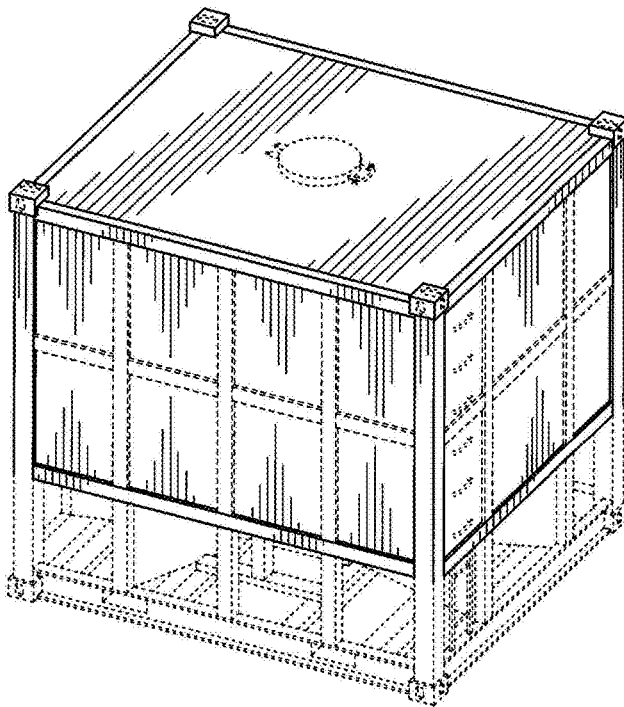


FIG. 8
NEW

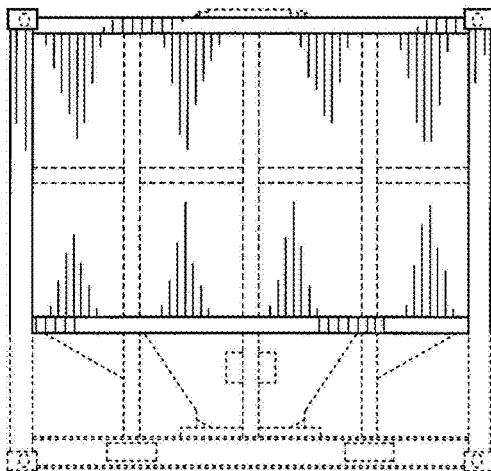


FIG. 9
NEW

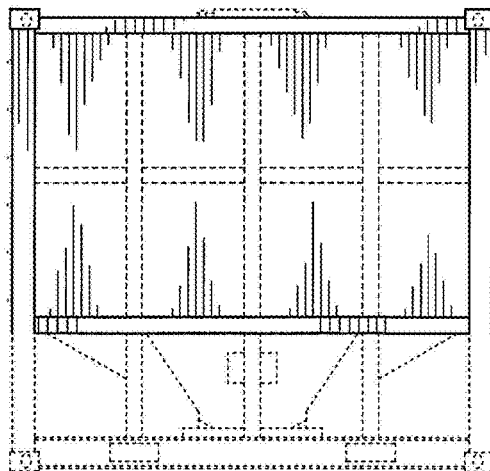


FIG. 10
NEW

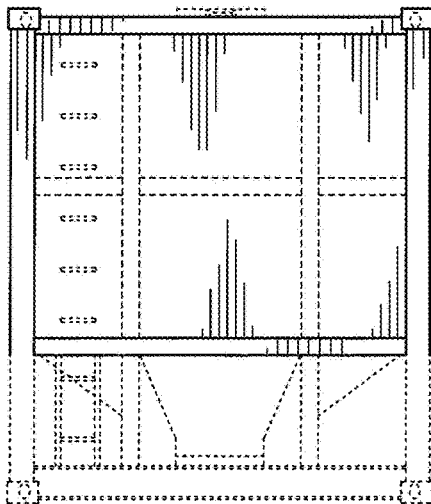


FIG. 11
NEW

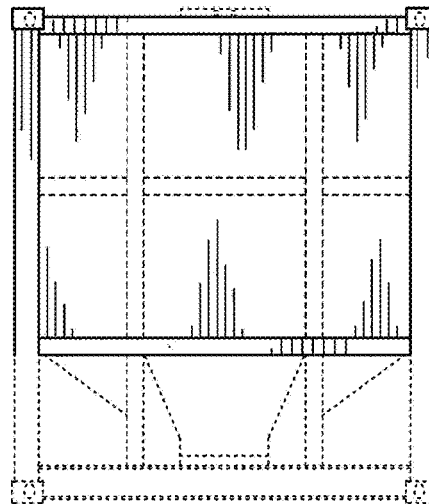


FIG. 12
NEW

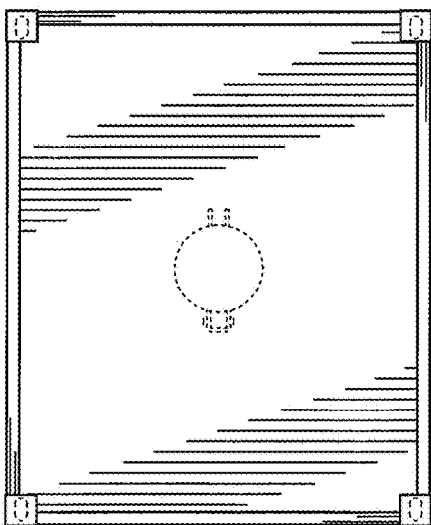


FIG. 13
NEW

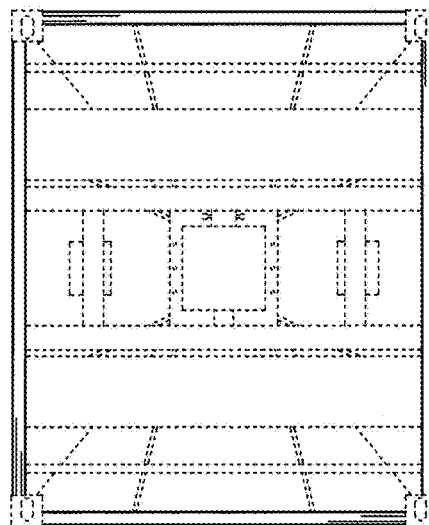


FIG. 14
NEW

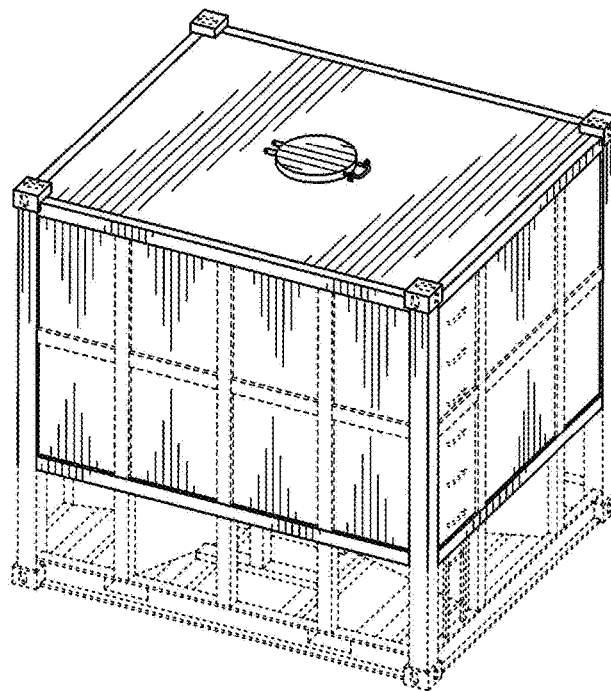


FIG. 15
NEW

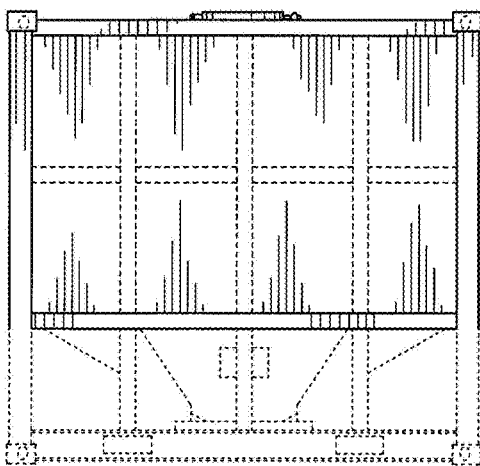


FIG. 16
NEW

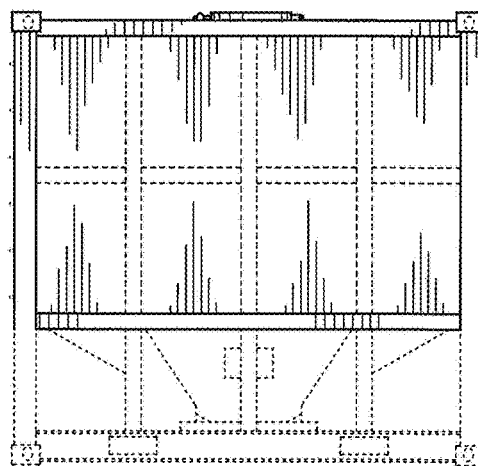


FIG. 17
NEW

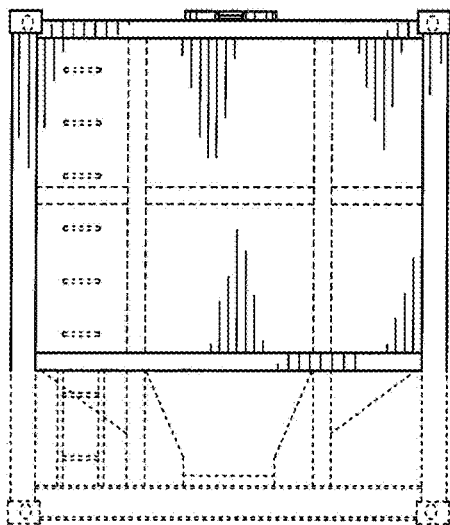


FIG. 18
NEW

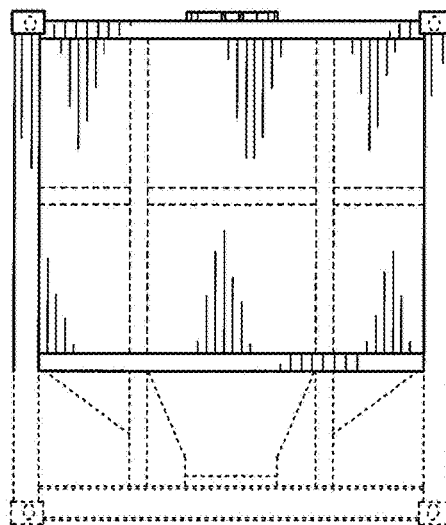


FIG. 19
NEW

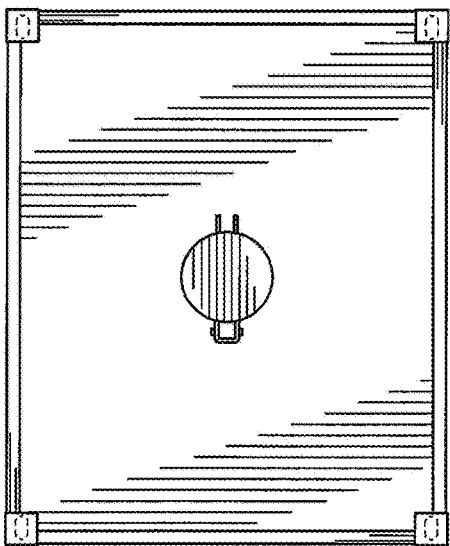


FIG. 20
NEW

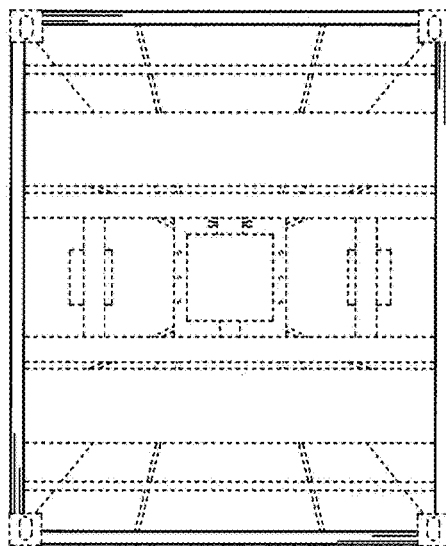


FIG. 21
NEW