



(12) **United States Patent**  
**Oehring et al.**

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(54) **MULTI-PLUNGER PUMPS AND ASSOCIATED DRIVE SYSTEMS**  
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(56) **References Cited**  
U.S. PATENT DOCUMENTS  
1,656,861 A 1/1928 Leonard  
1,671,436 A 5/1928 Melott  
(Continued)  
FOREIGN PATENT DOCUMENTS  
AU 2007340913 7/2008  
CA 2406801 11/2001  
(Continued)  
OTHER PUBLICATIONS  
Non-Final Office Action dated Feb. 12, 2019 in related U.S. Appl. No. 16/170,695.  
(Continued)

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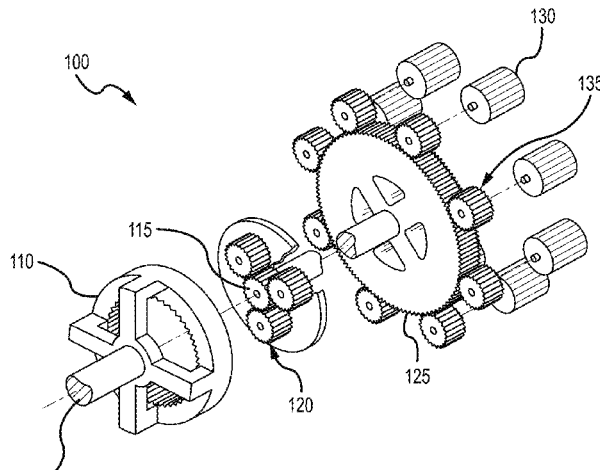
(57) **ABSTRACT**

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A hydraulic fracturing system for fracturing a subterranean formation is described according to various embodiments. In an embodiment, the system can include a multi-plunger hydraulic fracturing pump fluidly connected to a well associated with the subterranean formation, the multi-plunger pump configured to pump fluid into a wellbore associated with the well at a high pressure so that the fluid passes from the wellbore into the subterranean formation and fractures the subterranean formation. In an embodiment, a plurality of motors can be positioned to power the multi-plunger pump, and a planetary gear train can have a plurality of pinion gears in rotational contact with each of the plurality of motors. In an embodiment, a gear ratio of the planetary gear train and a speed at which the plurality of motors operates can be selected so as to limit a maximum pump speed associated with the multi-plunger pump.

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(Continued)  
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CPC ..... **F16H 3/52** (2013.01); **E21B 37/00** (2013.01); **E21B 43/20** (2013.01); **E21B 43/26** (2013.01);  
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(58) **Field of Classification Search**  
None  
See application file for complete search history.

**20 Claims, 10 Drawing Sheets**





(56)		References Cited					
		U.S. PATENT DOCUMENTS					
9,175,554	B1	11/2015	Watson	2009/0078410	A1	3/2009	Krenek et al.
9,206,684	B2	12/2015	Parra	2009/0090504	A1	4/2009	Weightman
9,322,239	B2	4/2016	Angeles Boza et al.	2009/0093317	A1	4/2009	Kajiwara et al.
9,366,114	B2	6/2016	Coli et al.	2009/0095482	A1	4/2009	Surjaatmadja
9,410,410	B2	8/2016	Broussard et al.	2009/0145611	A1	6/2009	Pallini, Jr.
9,450,385	B2	9/2016	Kristensen	2009/0153354	A1	6/2009	Daussin et al.
9,458,687	B2	10/2016	Hallundbaek	2009/0188181	A1	7/2009	Forbis
9,475,020	B2	10/2016	Coli et al.	2009/0200035	A1	8/2009	Bjerkreim et al.
9,475,021	B2	10/2016	Coli et al.	2009/0260826	A1	10/2009	Sherwood
9,534,473	B2	1/2017	Morris et al.	2009/0308602	A1	12/2009	Bruins et al.
9,562,420	B2	2/2017	Morris et al.	2010/0000508	A1	1/2010	Chandler
9,587,649	B2	3/2017	Oehring	2010/0019574	A1	1/2010	Baldassarre et al.
9,611,728	B2	4/2017	Oehring	2010/0038907	A1	2/2010	Hunt
9,650,871	B2	5/2017	Oehring et al.	2010/0045109	A1	2/2010	Arnold
9,650,879	B2	5/2017	Broussard et al.	2010/0051272	A1	3/2010	Loree et al.
9,728,354	B2	8/2017	Skolozdra	2010/0101785	A1	4/2010	Khvoshchev
9,738,461	B2	8/2017	DeGaray	2010/0132949	A1	6/2010	DeFosse et al.
9,745,840	B2	8/2017	Oehring et al.	2010/0146981	A1	6/2010	Motakef
9,840,901	B2	12/2017	Oehring et al.	2010/0172202	A1	7/2010	Borgstadt
9,863,228	B2	1/2018	Shampine et al.	2010/0200224	A1	8/2010	Nguete
9,893,500	B2	2/2018	Oehring	2010/0250139	A1	9/2010	Hobbs et al.
9,915,128	B2	3/2018	Hunter	2010/0293973	A1	11/2010	Erickson
9,932,799	B2	4/2018	Symchuk	2010/0303655	A1	12/2010	Seekic
9,963,961	B2	5/2018	Hardin	2010/0322802	A1	12/2010	Kugelev
9,970,278	B2	5/2018	Broussard	2011/0005757	A1	1/2011	Hebert
9,976,351	B2	5/2018	Randall	2011/0017468	A1	1/2011	Birch et al.
9,995,218	B2	6/2018	Oehring	2011/0061855	A1	3/2011	Case et al.
10,008,880	B2	6/2018	Vicknair	2011/0085924	A1	4/2011	Shampine
10,020,711	B2	7/2018	Oehring	2011/0166046	A1	7/2011	Weaver
10,036,238	B2	7/2018	Oehring	2011/0247878	A1	10/2011	Rasheed
10,107,086	B2	10/2018	Oehring	2011/0272158	A1	11/2011	Neal
10,119,381	B2	11/2018	Oehring	2012/0018016	A1	1/2012	Gibson
10,196,878	B2	2/2019	Hunter	2012/0049625	A1	3/2012	Hopwood
10,227,854	B2	3/2019	Glass	2012/0085541	A1	4/2012	Love et al.
10,232,332	B2	3/2019	Oehring	2012/0127635	A1	5/2012	Grindeland
10,246,984	B2	4/2019	Payne	2012/0205301	A1	8/2012	McGuire et al.
10,254,732	B2	4/2019	Oehring	2012/0205400	A1	8/2012	DeGaray et al.
10,260,327	B2	4/2019	Kajaria	2012/0222865	A1	9/2012	Larson
10,280,724	B2	5/2019	Hinderliter	2012/0232728	A1	9/2012	Karimi et al.
10,287,873	B2	5/2019	Filas	2012/0247783	A1	10/2012	Berner, Jr.
10,309,205	B2	6/2019	Randall	2012/0255734	A1	10/2012	Coli et al.
10,371,012	B2	8/2019	Davis	2013/0009469	A1	1/2013	Gillett
10,378,326	B2	8/2019	Morris	2013/0025706	A1	1/2013	DeGaray et al.
10,393,108	B2	8/2019	Chong	2013/0175038	A1	7/2013	Conrad
10,407,990	B2	9/2019	Oehring	2013/0175039	A1	7/2013	Guidry
10,436,026	B2	10/2019	Ounadjela	2013/0199617	A1	8/2013	DeGaray et al.
2002/0169523	A1	11/2002	Ross et al.	2013/0233542	A1	9/2013	Shampine
2003/0056514	A1	3/2003	Lohn	2013/0306322	A1	11/2013	Sanborn et al.
2003/0138327	A1	7/2003	Jones et al.	2013/0341029	A1	12/2013	Roberts et al.
2004/0040746	A1	3/2004	Niedermayr	2013/0343858	A1	12/2013	Flusche
2004/0102109	A1	5/2004	Cratty et al.	2014/0000899	A1	1/2014	Nevison
2004/0167738	A1	8/2004	Miller	2014/0010671	A1	1/2014	Cryer et al.
2005/0061548	A1	3/2005	Hooper	2014/0054965	A1	2/2014	Jain
2005/0116541	A1	6/2005	Seiver	2014/0060658	A1	3/2014	Hains
2005/0274508	A1	12/2005	Folk	2014/0095114	A1	4/2014	Thomeer
2006/0052903	A1	3/2006	Bassett	2014/0096974	A1	4/2014	Coli
2006/0260331	A1	11/2006	Andreychuk	2014/0124162	A1	5/2014	Leavitt
2007/0131410	A1	6/2007	Hill	2014/0138079	A1	5/2014	Broussard et al.
2007/0187163	A1	8/2007	Cone	2014/0174717	A1	6/2014	Broussard et al.
2007/0201305	A1	8/2007	Heilman et al.	2014/0219824	A1	8/2014	Burnette
2007/0226089	A1	9/2007	DeGaray et al.	2014/0246211	A1	9/2014	Guidry et al.
2007/0277982	A1	12/2007	Shampine	2014/0251623	A1	9/2014	Lestz et al.
2007/0278140	A1	12/2007	Mallet et al.	2014/0255214	A1	9/2014	Burnette
2008/0017369	A1	1/2008	Sarada	2014/0277772	A1	9/2014	Lopez
2008/0041596	A1	2/2008	Blount	2014/0290768	A1	10/2014	Randle
2008/0112802	A1	5/2008	Orlando	2014/0379300	A1	12/2014	Devine et al.
2008/0137266	A1	6/2008	Jensen	2015/0027712	A1	1/2015	Vicknair
2008/0208478	A1	8/2008	Ella et al.	2015/0053426	A1	2/2015	Smith
2008/0217024	A1	9/2008	Moore	2015/0068724	A1	3/2015	Coli et al.
2008/0236818	A1	10/2008	Dykstra	2015/0068754	A1	3/2015	Coli et al.
2008/0264625	A1	10/2008	Ochoa	2015/0075778	A1	3/2015	Walters
2008/0264640	A1	10/2008	Eslinger	2015/0083426	A1	3/2015	Lesko
2008/0264649	A1	10/2008	Crawford	2015/0097504	A1	4/2015	Lamascus
				2015/0114652	A1	4/2015	Lestz
				2015/0136043	A1	5/2015	Shaaban
				2015/0144336	A1	5/2015	Hardin et al.
				2015/0159911	A1	6/2015	Holt

(56)

## References Cited

## U.S. PATENT DOCUMENTS

2015/0211512 A1 7/2015 Wiegman  
 2015/0211524 A1 7/2015 Broussard  
 2015/0217672 A1 8/2015 Shampine  
 2015/0225113 A1 8/2015 Lungu  
 2015/0252661 A1 9/2015 Glass  
 2015/0300145 A1 10/2015 Coli et al.  
 2015/0314225 A1 11/2015 Coli et al.  
 2015/0330172 A1 11/2015 Allmaras  
 2015/0354322 A1 12/2015 Vicknair  
 2016/0032703 A1 2/2016 Broussard et al.  
 2016/0102537 A1 4/2016 Lopez  
 2016/0105022 A1 4/2016 Oehring  
 2016/0208592 A1 4/2016 Oehring  
 2016/0160889 A1 6/2016 Hoffman et al.  
 2016/0177675 A1 6/2016 Morris et al.  
 2016/0177678 A1 6/2016 Morris  
 2016/0186531 A1 6/2016 Harkless et al.  
 2016/0208593 A1 7/2016 Coli et al.  
 2016/0208594 A1 7/2016 Coli et al.  
 2016/0208595 A1 7/2016 Tang  
 2016/0221220 A1 8/2016 Paige  
 2016/0230524 A1 8/2016 Dumoit  
 2016/0230525 A1 8/2016 Lestz et al.  
 2016/0258267 A1 9/2016 Payne et al.  
 2016/0265457 A1 9/2016 Stephenson  
 2016/0273328 A1 9/2016 Oehring  
 2016/0281484 A1 9/2016 Lestz  
 2016/0290114 A1 10/2016 Oehring  
 2016/0290563 A1 10/2016 Diggins  
 2016/0312108 A1 10/2016 Lestz et al.  
 2016/0319650 A1 11/2016 Oehring  
 2016/0326854 A1 11/2016 Broussard  
 2016/0326855 A1 11/2016 Coli et al.  
 2016/0341281 A1 11/2016 Brunvold et al.  
 2016/0348479 A1 12/2016 Oehring  
 2016/0349728 A1 12/2016 Oehring  
 2016/0369609 A1 12/2016 Morris et al.  
 2017/0016433 A1 1/2017 Chong  
 2017/0021318 A1 1/2017 McIver et al.  
 2017/0022788 A1 1/2017 Oehring et al.  
 2017/0022807 A1 1/2017 Dursun  
 2017/0028368 A1 2/2017 Oehring et al.  
 2017/0030177 A1 2/2017 Oehring et al.  
 2017/0030178 A1 2/2017 Oehring et al.  
 2017/0036178 A1 2/2017 Coli et al.  
 2017/0036872 A1 2/2017 Wallace  
 2017/0037717 A1 2/2017 Oehring  
 2017/0037718 A1 2/2017 Coli et al.  
 2017/0051732 A1 2/2017 Hernandez et al.  
 2017/0096885 A1 4/2017 Oehring  
 2017/0104389 A1 4/2017 Morris et al.  
 2017/0114625 A1 4/2017 Norris  
 2017/0145918 A1 5/2017 Oehring  
 2017/0146189 A1 5/2017 Herman  
 2017/0159570 A1 6/2017 Bickert  
 2017/0218727 A1 8/2017 Oehring  
 2017/0218843 A1 8/2017 Oehring  
 2017/0222409 A1 8/2017 Oehring  
 2017/0226839 A1 8/2017 Broussard  
 2017/0226842 A1 8/2017 Omont et al.  
 2017/0234250 A1 8/2017 Janik  
 2017/0241221 A1 8/2017 Seshadri  
 2017/0259227 A1 9/2017 Morris et al.  
 2017/0292513 A1 10/2017 Haddad  
 2017/0313499 A1 11/2017 Hughes et al.  
 2017/0314380 A1 11/2017 Oehring  
 2017/0328179 A1 11/2017 Dykstra  
 2017/0369258 A1 12/2017 DeGaray et al.  
 2018/0028992 A1 2/2018 Stegemoeller  
 2018/0038216 A1 2/2018 Zhang  
 2018/0156210 A1 6/2018 Oehring  
 2018/0183219 A1 6/2018 Oehring  
 2018/0216455 A1 8/2018 Andreychuk

2018/0274446 A1 9/2018 Oehring  
 2018/0320483 A1 11/2018 Zhang  
 2018/0363437 A1 12/2018 Coli  
 2019/0003329 A1 1/2019 Morris  
 2019/0010793 A1 1/2019 Hinderliter  
 2019/0063309 A1 2/2019 Davis  
 2019/0100989 A1 4/2019 Stewart  
 2019/0112910 A1 4/2019 Oehring  
 2019/0120024 A1 4/2019 Oehring  
 2019/0128080 A1 5/2019 Ross  
 2019/0162061 A1 5/2019 Stephenson  
 2019/0169971 A1 6/2019 Oehring  
 2019/0178057 A1 6/2019 Hunter  
 2019/0178235 A1 6/2019 Coskrey  
 2019/0203567 A1 7/2019 Ross  
 2019/0203572 A1 7/2019 Morris  
 2019/0211661 A1 7/2019 Reckels  
 2019/0226317 A1 7/2019 Payne  
 2019/0245348 A1 8/2019 Hinderliter  
 2019/0292866 A1 9/2019 Ross  
 2019/0292891 A1 9/2019 Kajaria  
 2019/0316447 A1 10/2019 Oehring

## FOREIGN PATENT DOCUMENTS

CA 2707269 12/2010  
 CA 2482943 5/2011  
 CA 3050131 11/2011  
 CA 2955706 10/2012  
 CA 2966672 10/2012  
 CA 3000322 4/2013  
 CA 2787814 2/2014  
 CA 2833711 5/2014  
 CA 2978706 9/2016  
 CA 2944980 2/2017  
 CA 3006422 6/2017  
 CA 3018485 8/2017  
 CA 2964593 10/2017  
 CA 2849825 7/2018  
 CA 2919649 2/2019  
 CA 2919666 7/2019  
 CA 2797081 9/2019  
 CA 2945579 10/2019  
 CN 201687513 12/2010  
 CN 101977016 2/2011  
 CN 202023547 11/2011  
 CN 102602322 7/2012  
 JP 2004264589 9/2004  
 WO 2016/144939 9/2016  
 WO 2016/160458 10/2016

## OTHER PUBLICATIONS

International Search Report and Written Opinion dated Feb. 15, 2019 in related PCT Application No. PCT/US18/63977.  
 Non-Final Office Action dated Feb. 25, 2019 in related U.S. Appl. No. 16/210,749.  
 International Search Report and Written Opinion dated Mar. 5, 2019 in related PCT Application No. PCT/US18/63970.  
 Non-Final Office Action dated Mar. 6, 2019 in related U.S. Appl. No. 15/183,387.  
 Office Action dated Mar. 1, 2019 in related Canadian Patent Application No. 2,943,275.  
 Office Action dated Jan. 30, 2019 in related Canadian Patent Application No. 2,936,997.  
 Office Action dated Dec. 12, 2018 in related U.S. Appl. No. 16/160,708.  
 International Search Report and Written Opinion dated Jan. 2, 2019 in related PCT Patent Application No. PCT/US18/54542.  
 International Search Report and Written Opinion dated Jan. 2, 2019 in related PCT Patent Application No. PCT/US18/54548.  
 International Search Report and Written Opinion dated Dec. 31, 2018 in related PCT Patent Application No. PCT/US18/55913.  
 International Search Report and Written Opinion dated Jan. 4, 2019 in related PCT Patent Application No. PCT/US18/57539.

(56)

**References Cited**

## OTHER PUBLICATIONS

Notice of Allowance dated Apr. 23, 2019 in corresponding U.S. Appl. No. 15/635,028.

Schlumberger, "Jet Manual 23, Fracturing Pump Units, SPF/SPS-343, Version 1.0," Jan. 31, 2007, 68 pages.

Stewart & Stevenson, "Stimulation Systems," 2007, 20 pages.

Luis Gamboa, "Variable Frequency Drives in Oil and Gas Pumping Systems," Dec. 17, 2011, 5 pages.

"Griswold Model 811 Pumps: Installation, Operation and Maintenance Manual, ANSI Process Pump," 2010, 60 pages.

UK Power Networks—Transformers to Supply Heat to Tate Modern—from Press Releases May 16, 2013.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/293,681 dated Feb. 16, 2017.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/294,349 dated Mar. 14, 2017.

Final Office Action issued in corresponding U.S. Appl. No. 15/145,491 dated Jan. 20, 2017.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/145,443 dated Feb. 7, 2017.

Notice of Allowance issued in corresponding U.S. Appl. No. 15/217,040 dated Mar. 28, 2017.

Notice of Allowance issued in corresponding U.S. Appl. No. 14/622,532 dated Mar. 27, 2017.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/291,842 dated Jan. 6, 2017.

Final Office Action issued in corresponding U.S. Appl. No. 14/622,532 dated Dec. 7, 2016.

Non-Final Office Action issued in corresponding U.S. Appl. No. 14/622,532 dated May 17, 2016.

Final Office Action issued in corresponding U.S. Appl. No. 14/622,532 dated Dec. 21, 2015.

Non-Final Office Action issued in corresponding U.S. Appl. No. 14/622,532 dated Aug. 5, 2015.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/145,491 dated Sep. 12, 2016.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/217,040 dated Nov. 29, 2016.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/235,788 dated Dec. 14, 2016.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/145,491 dated May 15, 2017.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/486,970 dated Jun. 22, 2017.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/487,656 dated Jun. 23, 2017.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/487,694 dated Jun. 26, 2017.

Final Office Action issued in corresponding U.S. Appl. No. 15/294,349 dated Jul. 6, 2017.

Non-Final Office Action issued in corresponding U.S. Appl. No. 14/884,363 dated Sep. 5, 2017.

Final Office Action issued in corresponding U.S. Appl. No. 15/145,491 dated Sep. 6, 2017.

Non-Final Office Action issued in corresponding U.S. Appl. No. 14/881,535 dated Oct. 6, 2017.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/145,414 dated Nov. 29, 2017.

Non-Final Office Action issued in corresponding U.S. Appl. No. 15/644,487 dated Nov. 13, 2017.

Canadian Office Action dated Mar. 2, 2018 in related Canadian Patent Application No. 2,833,711.

Office Action dated Apr. 10, 2018 in related U.S. Appl. No. 15/294,349.

Office Action dated Apr. 2, 2018 in related U.S. Appl. No. 15/183,387.

Office Action dated May 29, 2018 in related U.S. Appl. No. 15/235,716.

Canadian Office Action dated Apr. 18, 2018 in related Canadian Patent Application No. 2,928,711.

Canadian Office Action dated Jun. 22, 2018 in related Canadian Patent Application No. 2,886,697.

Office Action dated Jul. 25, 2018 in related U.S. Appl. No. 15/644,487.

Office Action dated Oct. 4, 2018 in related U.S. Appl. No. 15/217,081.

International Search Report and Written Opinion dated Sep. 19, 2018 in related PCT Patent Application No. PCT/US2018/040683.

Canadian Office Action dated Sep. 28, 2018 in related Canadian Patent Application No. 2,945,281.

International Search Report and Written Opinion dated Jul. 9, 2019 in corresponding PCT Application No. PCT/US2019/027584.

Office Action dated Jun. 11, 2019 in corresponding U.S. Appl. No. 16/210,749.

Office Action dated May 10, 2019 in corresponding U.S. Appl. No. 16/268,030.

Canadian Office Action dated May 30, 2019 in corresponding CA Application No. 2,833,711.

Canadian Office Action dated Jun. 20, 2019 in corresponding CA Application No. 2,964,597.

Office Action dated Jun. 7, 2019 in corresponding U.S. Appl. No. 16/268,030.

International Search Report and Written Opinion dated Sep. 11, 2019 in related PCT Application No. PCT/US2019/037493.

Office Action dated Aug. 19, 2019 in related U.S. Appl. No. 15/356,436.

Office Action dated Oct. 2, 2019 in related U.S. Appl. No. 16/152,732.

Office Action dated Sep. 11, 2019 in related U.S. Appl. No. 16/268,030.

Office Action dated Oct. 11, 2019 in related U.S. Appl. No. 16/385,070.

Office Action dated Sep. 3, 2019 in related U.S. Appl. No. 15/994,772.

Office Action dated Sep. 20, 2019 in related U.S. Appl. No. 16/443,273.

Canadian Office Action dated Oct. 1, 2019 in related Canadian Patent Application No. 2,936,997.

International Search Report and Written Opinion dated Nov. 26, 2019 in related PCT Application No. PCT/US19/51018.

International Search Report and Written Opinion dated Jan. 2, 2020 in related PCT Application No. PCT/US19/55325.

Notice of Allowance dated Jan. 9, 2020 in related U.S. Appl. No. 16/570,331.

Non-Final Office Action dated Dec. 23, 2019 in related U.S. Appl. No. 16/597,008.

Non-Final Office Action dated Jan. 10, 2020 in related U.S. Appl. No. 16/597,014.

Non-Final Office Action dated Dec. 6, 2019 in related U.S. Appl. No. 16/564,186.

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