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(71) Applicant: **GE OIL & GAS PRESSURE CONTROL LP** [US/US]; 4424 West Sam Houston Parkway North, Suite 100, Houston, TX 77041 (US).

(72) Inventors: **KAJARIA, Saurabh**; 4424 West Sam Houston Parkway North, Suite 100, Houston, TX 77041-8200 (US). **MALONEY, Tom**; 3045 Marina Bay Drive, Suite 3308, League City, TX 77573 (US). **NIENHUIS, Case**; 2894 Woodland Glen Lane, Conroe, TX 77380 (US).

(74) Agents: **DOMBROWSKI, Joanna, M.** et al.; General Electric Company, Global Patent Operation, 3135 Easton Turnpike, Fairfield, CT 06828 (US).

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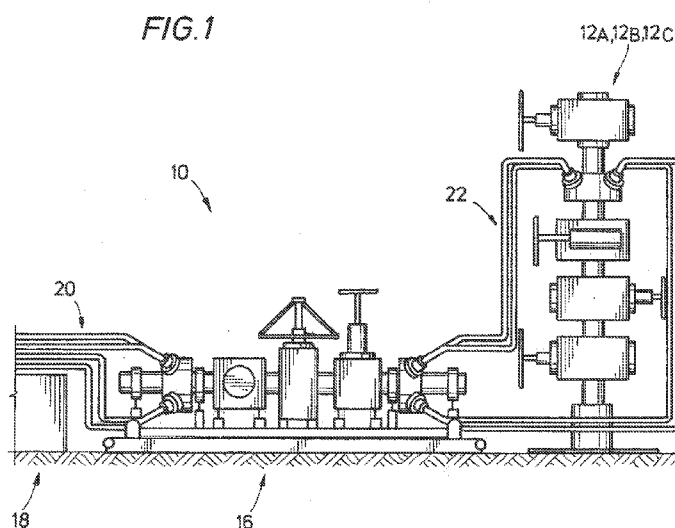
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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

(54) Title: SKID LINE MANIFOLD FOR CONCURRENT FRACTURE OPERATIONS



(57) Abstract: A modular, adjustable system (10) for distributing fluids to one or more wellheads (12) includes a plurality of modules (16) that can be arranged at a well site to create an appropriate manifold to enable selective fluid communication between a fluid pumping system (18) and the one or more wellheads. The modules each include a fluid inlet, a fluid outlet and a valve coupled therebetween to selectively permit or restrict fluid flow between the respective fluid inlets and fluid outlets. The modules are configured to be readily maneuvered, coupled and locked to one another at a well site.

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

16 April 2015

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

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2014/031548

A. CLASSIFICATION OF SUBJECT MATTER
INV. E21B43/26
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)
E21B F16K

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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 2010/300672 A1 (CHILDRESS EVERETT L [US] ET AL) 2 December 2010 (2010-12-02) figures 1-4 paragraphs [0001], [0014] - [0015], [0018] -----	1-3,7, 12-16,18 4-6,17
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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

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"&" document member of the same patent family

Date of the actual completion of the international search

6 February 2015

Date of mailing of the international search report

17/02/2015

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Brassart, P

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2014/031548

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"Supreme services product catalogue 2012", 31 December 2012 (2012-12-31), XP055128853, Retrieved from the Internet: URL:http://docs.epaperflip.com/Supreme-Ser- vices/Supreme-Services/51823243-02e0-4c35- ace8-a10e00d645c7/Supreme%20Services%20Pro- duct%20Catalog%202012.pdf [retrieved on 2014-07-14] the whole document	1-3,7,9, 12,15,16
Y	----- US 4 420 916 A (RICKETTS WILLIAM H [US]) 20 December 1983 (1983-12-20) figures 1-4 column 4, line 58 - column 6, line 5 -----	4,5,17
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A	US 2012/181013 A1 (KAJARIA SAURABH [US] ET AL) 19 July 2012 (2012-07-19) figures 3A-4A, 5-6 -----	1,12,18
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A	US 6 267 191 B1 (HETTINGER DAVID ALLYN [US]) 31 July 2001 (2001-07-31) figures 1, 3a-b, 5a-f abstract -----	4,5,7
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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2014/031548

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 251 991 A1 (BORCHARDT DIETER) 7 January 1988 (1988-01-07) figures 1-9 -----	6
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A,P	"Weir bulletin July 2013", 31 July 2013 (2013-07-31), XP055128832, Retrieved from the Internet: URL:http://content.yudu.com/A2b8gm/wb-july -2013/resources/11.htm [retrieved on 2014-07-14] the whole document -----	1-3, 12-16,18
A,P	"Pressure Control Systems Seaboard (TM) Products Excellent Oil & Gas Solutions For more product information", 31 December 2013 (2013-12-31), XP055128842, Retrieved from the Internet: URL:http://weirinaction.com/wp-content/upl oads/2013/03/26_zip_pac.pdf [retrieved on 2014-07-14] the whole document -----	1,12,18
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/031548

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.:

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: 1-3, 12-16, 18

Flow distribution

2. claims: 4, 5, 17

Module conveyance

3. claim: 6

Hand actuated lever

4. claims: 7, 8

Pairs of channels

5. claims: 9-11

Valve redundancy

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2014/031548

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2010300672	A1	02-12-2010	NONE
US 2011259584	A1	27-10-2011	NONE
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