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Published:

- 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))

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28 March 2013

(54) Title: HIGH PRESSURE MULTIBORE JUNCTION ASSEMBLY

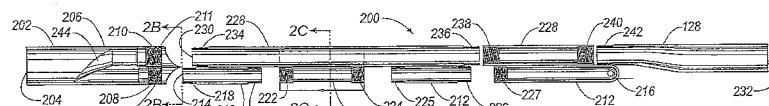


FIG. 2A

(57) Abstract: A high pressure multibore junction assembly and methods for completion of a wellbore using the high pressure multibore junction assembly.

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2012/037493

## A. CLASSIFICATION OF SUBJECT MATTER

**E21B 19/16(2006.01)i, E21B 19/24(2006.01)i, E21B 17/01(2006.01)i**

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 19/16; E21B 19/24; E21B 17/01

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean utility models and applications for utility models  
Japanese utility models and applications for utility modelsElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
eKOMPASS(KIPO internal) & Keywords: main, lateral, leg, body, thread, stabilizer, deflector and similar terms

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 5960873 A (ALEXANDER, STEVE L. et al.) 05 October 1999 See column 4 line 50-column 6 line 19 and figures 1-9.	1-27 28-30
X A	US 2006-0201677 A1 (MOODY, BRAXTON I. et al.) 14 September 2006 See paragraphs 18, 21 and figure 3.	11,12,15-18,21,23 ,24 1-10,13,14,19,20 ,22,25-30
X A	US 2004-0168809 A1 (NOBILEAU, PHILIPPE C.) 02 September 2004 See paragraphs 60, 67 and figures 2, 17.	21-27 1-20,28-30
X A	US 2002-0079102 A1 (DEWEY, CHARLES H. et al.) 27 June 2002 See paragraph 70 and figures 15A-15H.	21,23,24 1-20,22,25-30
X A	US 6035937 A (GANO, JOHN C. et al.) 14 March 2000 See column 3 line 45-column 5 line 30 and figure 1.	21,23,24 1-20,22,25-30

 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 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  
29 JANUARY 2013 (29.01.2013)

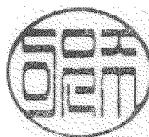
Date of mailing of the international search report

**30 JANUARY 2013 (30.01.2013)**Name and mailing address of the ISA/KR  
  
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**INTERNATIONAL SEARCH REPORT**

International application No.

**PCT/US2012/037493****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:

The only common technical feature between independent claims 1, 11 and 21 is a tubular main leg and a tubular lateral leg. However, this feature lacks novelty with respect to US 2006-0201677 A1 (2006.09.14.) where a tubular main leg (38) and a tubular lateral leg (28) are disclosed.

A body further comprises a common technical feature between independent claims 1 and 11. However, this feature also lacks novelty with respect to US 2006-0201677 A1 (2006.09.14.) where a body (52) is disclosed.

Thus, there is no technical relationship left over the prior art between the claims, leaving the claims without a single general inventive concept. Hence, there is lack of unity "a posteriori" (PCT Rules 13.1 and 13.2).

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 fee, this Authority did not invite payment of any additional fee.
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**

Information on patent family members

International application No.

**PCT/US2012/037493**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5960873 A	05.10.1999	GB 2329202 A	17.03.1999
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US 6035937 A	14.03.2000	CA 2260358 A1 CA 2260358 C GB 2333544 A	27.07.1999 09.01.2007 28.07.1999