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[Continued on next page]

(54) Title: EXPANSION SYSTEM FOR AN EXPANDABLE TUBULAR ASSEMBLY

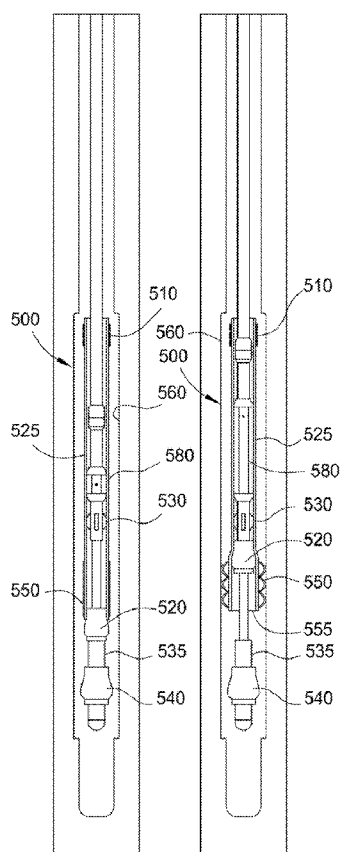


FIG. 15A FIG. 15B

(57) Abstract: The present invention generally relates to an apparatus and method for expanding an expandable tubular assembly in a borehole. In one aspect, a system for expanding a tubular (560) having an anchor portion (550) in a borehole is provided. The system includes a running tool (535) configured to position the tubular in the borehole. The running tool including a first expander (520) configured to activate the anchor portion by expanding the tubular (525) to a first diameter. The system further includes a second expander (540) configured to expand the tubular (525) to a second larger diameter, wherein the second expander (540) is movable between a retracted position and an expanded position. In another aspect, a method of expanding a tubular having an anchor portion in a borehole is provided.





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, 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.

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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. E21B43/10
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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

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)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/056125 A2 (WEATHERFORD LAMB [US]; HARRALL SIMON JOHN [GB]; METCALFE PAUL DAVID [G] 10 July 2003 (2003-07-10)	1,3-6, 9-13,16, 23-26
Y	page 9, line 2 - page 9, line 26; figures 1-7	2,7,8, 14,15
Y	----- GB 2 401 131 A (WEATHERFORD LAMB [US]) 3 November 2004 (2004-11-03) line 7 - page 24, line 20; figures 5, 13	2
Y	----- EP 1 942 248 A1 (WEATHERFORD LAMB [US]) 9 July 2008 (2008-07-09) abstract; figures 10, 11 paragraphs [0057], [0058]	7,8,14
Y	----- GB 2 403 748 A (WEATHERFORD LAMB [US]) 12 January 2005 (2005-01-12)	15
A	the whole document ----- -/--	1,9,23

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :

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"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

15 July 2013

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INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2011/008908 A2 (ENVENTURE GLOBAL TECHNOLOGY [US]; NOEL GREGORY MARSHALL [US]) 20 January 2011 (2011-01-20)	15
A	abstract paragraph [0007] - paragraph [0008]; figures 1A-1E -----	1,9,23

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/035455

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: 1-16, 23-26

Running tool configured to position a tubular in a borehole

2. claims: 17-22

Tool for expanding an open-hole anchor

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2012/035455

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