



- (51) International Patent Classification:
E21B 19/24 (2006.01)
- (21) International Application Number:
PCT/GB2014/052453
- (22) International Filing Date:
11 August 2014 (11.08.2014)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
1314323.5 9 August 2013 (09.08.2013) GB
- (71) Applicants: **WEATHERFORD U.K. LIMITED** [GB/GB]; Gotham Road, East Leake, Loughborough Leicestershire LE12 6JX (GB). **WEATHERFORD NORGE AS** [NO/NO]; Stokkamyrveien 17, N-4313 Sandnes (NO).
- (72) Inventors: **VESTERSJO, Svein Egil**; Weatherford Norge AS, Stokkamyrveien 17, N-4313 Sandnes (NO). **SIVE-**

WRIGHT, Scott; Weatherford U.K. Limited, Howemoss Terrace, Dyce, Aberdeen Aberdeenshire AB21 0GR (GB). **KILLOH, Ian**; Weatherford U.K. Limited, Howemoss Terrace, Dyce, Aberdeen Aberdeenshire AB21 0GR (GB). **OSMUNDSEN, Kristian**; Weatherford Norge AS, Stokkamyrveien 17, N-4313 Sandnes (NO).

(74) Agent: **SHANKS, Andrew**; Marks & Clerk LLP, Aurora, 120 Bothwell Street, Glasgow Strathclyde G2 7JS (GB).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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.

[Continued on next page]

(54) Title: TUBULAR STABBING GUIDE

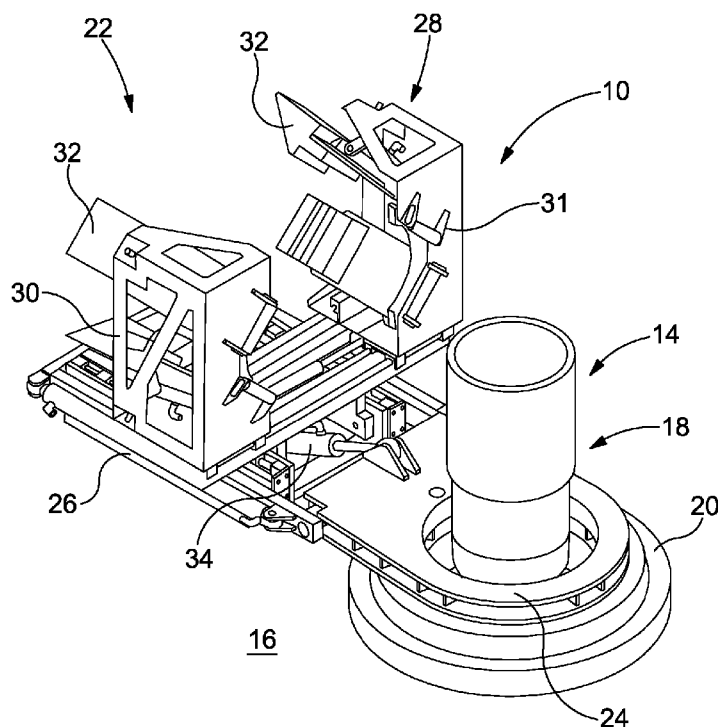


Figure 1

(57) Abstract: A tubular stabbing guide (10) used to assist in the location of a pin end connection of a tubular in a box end connection (14) of another tubular forming the upper end of a drill string held and supported from the drill floor (16) of a rig. The stabbing guide (10) has a mounting frame (22) for location on the drill floor (16) and funnel-forming members (32) mounted on the frame (22). In use, the funnel-forming members (32) are moved from a retracted location spaced from the box end connection (14) to an active location surrounding the box end connection (14), such that the funnel-forming members (32) form a funnel for guiding the pin end connection into the box end connection (14).



(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

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))

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

16 July 2015

INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2014/052453

A. CLASSIFICATION OF SUBJECT MATTER
INV. E21B19/24
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

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	WO 03/031766 A1 (MALM ORSTAD AS [NO]; ODFJELL SERVICES AS [NO]; MONG TOR EGIL [NO]; JOH) 17 April 2003 (2003-04-17) page 3, line 27 - page 4, line 11 page 6, line 27 - page 7, line 12 page 7, line 18 - page 8, line 5 figures 1-9	1-38
X	US 7 090 254 B1 (PIETRAS BERND-GEORG [DE] ET AL) 15 August 2006 (2006-08-15) column 1, line 51 - line 60 column 3, line 4 - line 11 column 3, line 50 - column 4, line 9 figures 1,2	1,22
	----- -/--	



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

"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

18 March 2015

Date of mailing of the international search report

05/06/2015

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

Schneiderbauer, K

INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2014/052453

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2012/168227 A1 (LITTLELY KEITH WILLIAM [AU] ET AL) 5 July 2012 (2012-07-05) paragraphs [0041], [0046], [0057]; figures 2-5 -----	1-38
A	DE 12 29 944 B (ATLAS COPCO AB) 8 December 1966 (1966-12-08) figures 1-3 -----	1-38
A	US 2002/088310 A1 (PIETRAS BERND-GEORG [DE]) 11 July 2002 (2002-07-11) paragraph [0005] -----	1-38

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2014/052453

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: 1-38

Stabbing guide for guiding a pin connection first string into the box connection of a second string.

2. claims: 39, 40

Mud bucket for retaining fluid draining from a connection above a broken cup.

3. claims: 41, 42

Wiper for wiping off fluid from a string portion of a pulled string.

4. claims: 43-45

Cutter for cutting a string.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2014/052453

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03031766	A1	17-04-2003	NO 20014844 A
			WO 03031766 A1
			07-04-2003
			17-04-2003
US 7090254	B1	15-08-2006	AU 4127700 A
			CA 2372075 A1
			DE 60001362 D1
			DE 60001362 T2
			EP 1169539 A1
			GB 2348844 A
			US 7090254 B1
			WO 0061906 A1
			14-11-2000
			19-10-2000
			13-03-2003
			16-10-2003
			09-01-2002
			18-10-2000
			15-08-2006
			19-10-2000
US 2012168227	A1	05-07-2012	AU 2011352868 A1
			CA 2823033 A1
			CL 2013001937 A1
			CN 103348088 A
			EP 2659085 A2
			PE 06002014 A1
			US 2012168227 A1
			WO 2012092029 A2
			11-07-2013
			05-07-2012
			22-11-2013
			09-10-2013
			06-11-2013
			16-05-2014
			05-07-2012
			05-07-2012
DE 1229944	B	08-12-1966	NONE
US 2002088310	A1	11-07-2002	AU 727655 B2
			AU 5872898 A
			CA 2279256 A1
			DE 69802263 D1
			DE 69802263 T2
			EP 0960257 A1
			NO 993498 A
			US 2002088310 A1
			WO 9832948 A1
			21-12-2000
			18-08-1998
			30-07-1998
			06-12-2001
			27-06-2002
			01-12-1999
			30-08-1999
			11-07-2002
			30-07-1998