



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 15 88 29 27

Classification of the application (IPC):
E21B 21/08

Technical fields searched (IPC):
E21B

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2014318802 A1 (SMITH DAVID RANDOLPH [US]) 30 October 2014 (2014-10-30) * paragraphs [0036], [0037]; figures 1,3 *	1-4
X	US 2002011338 A1 (MAURER WILLIAM C [US] ET AL) 31 January 2002 (2002-01-31) * column 8, lines 42-52; figure 6 * * column 6, line 62 - column 7, line 12 *	1
X	US 7497266 B2 (OCEAN RISER SYSTEMS AS [NO]) 03 March 2009 (2009-03-03) * column 7, lines 4-62; figures 1,2 *	1, 5-9
A	CA 2871620 A1 (SCHLUMBERGER CA LTD [CA]) 31 October 2013 (2013-10-31) * the whole document *	1-9

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 07 September 2018	Examiner Simunec, Duro
---------------------------	---	---------------------------

CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.



ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 15 88 29 27

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 07-09-2018
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2014318802	A1	30-10-2014	AU 2011258027 A1	20-12-2012
			GB 2493879 A	20-02-2013
			US 2011290495 A1	01-12-2011
			US 2014318802 A1	30-10-2014
			WO 2011150378 A1	01-12-2011
US 2002011338	A1	31-01-2002	AU 7537001 A	17-12-2001
			AU 2001275370 B2	11-08-2005
			BR 0111542 A	01-07-2003
			CA 2412417 A1	13-12-2001
			CN 1446286 A	01-10-2003
			MX PA02012188 A	20-08-2003
			NO 20025881 A	20-01-2003
			OA 12281 A	11-05-2006
			US 2002011338 A1	31-01-2002
			WO 0194740 A1	13-12-2001
US 7497266	B2	03-03-2009	BR 0212430 A	17-08-2004
			CA 2461639 A1	20-03-2003
			CA 2803812 A1	20-03-2003
			NO 321493 B1	08-05-2006
			NO 326509 B1	15-12-2008
			US 2004238177 A1	02-12-2004
			US 2007289746 A1	20-12-2007
			US 2012067590 A1	22-03-2012
			WO 03023181 A1	20-03-2003
CA 2871620	A1	31-10-2013	AU 2013251321 A1	13-11-2014
			BR 112014026864 A2	27-06-2017
			CA 2871620 A1	31-10-2013
			CN 104428485 A	18-03-2015
			GB 2520182 A	13-05-2015
			MX 354169 B	16-02-2018
			NO 341948 B1	26-02-2018
			US 2015083429 A1	26-03-2015
			WO 2013163642 A1	31-10-2013