



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 78 41 15

Classification of the application (IPC):
E21B 34/12, E21B 34/10

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 2013081824 A1 (HILL JR THOMAS G [US] ET AL) 04 April 2013 (2013-04-04) * the whole document *	1-10
X	US 2013220624 A1 (HILL JR THOMAS G [US] ET AL) 29 August 2013 (2013-08-29) * the whole document *	1-10
A	US 2012312540 A1 (LEFEBVRE LANCE LEO [CA]) 13 December 2012 (2012-12-13) * the whole document *	1-10
A	US 2009071654 A1 (O'MALLEY EDWARD J [US] ET AL) 19 March 2009 (2009-03-19) * abstract; figures *	1-10

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 The Hague	Date of completion of the search 27 August 2018	Examiner Dekker, Derk
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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

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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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 27-08-2018
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