Europäisches Patentamt
European Patent Office
Office européen des brevets

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 84 97 09

Classification of the application (IPC):
E21B 43/25*, *E21B 43/30

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 4977961 A (AVASTHI JITENDRA M [US]) 18 December 1990 (1990-12-18) * column 3, line 42 - column 4, line 37 * * figures 4,5 *	1-15
A	WO 2016138005 A1 (SCHLUMBERGER TECHNOLOGY CORP [US]; SCHLUMBERGER CA LTD [CA] ET AL.) 01 September 2016 (2016-09-01) * figures 6A,6B,6C *	1-15
A	WO 2015089458 A1 (SCHLUMBERGER CA LTD [CA]; SCHLUMBERGER SERVICES PETROL [FR] ET AL.) 18 June 2015 (2015-06-18) * paragraphs [0006], [0007], [0046], [0047], [0084] * * figures 1,15,16 *	1-15

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	Date of completion of the search	Examiner
Munich	18 March 2020	Schouten, Adri

CATEGORY OF CITED DOCUMENTS

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

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.

EP 3 510 244 A4

© 2020 org.epo.publication.KlausBaumeister xsl stylesheet v0.9.5SRnfp

Europäisches Patentamt
European Patent Office
Office européen des brevets

ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 84 97 09

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 18-03-2020
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 4977961 A	18-12-1990	*NONE*	
WO 2016138005 A1	01-09-2016	CA 2977373 A1	01-09-2016
		US 2018023375 A1	25-01-2018
		WO 2016138005 A1	01-09-2016
WO 2015089458 A1	18-06-2015	US 2016312587 A1	27-10-2016
		WO 2015089458 A1	18-06-2015

EP 3 510 244 A4

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.

© 2020 org.epo.publication.KlausBaumeister xsl stylesheet v0.9.5SRnfp