



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 89 93 83

Classification of the application (IPC):
E21B 19/16

Technical fields searched (IPC):
E21B

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	US 2003177870 A1 (NEVES BILLY W [US] ET AL) 25 September 2003 (2003-09-25) * paragraph [0035]; figure 1 *	1-15
A	US 6223629 B1 (BANGERT DANIEL S [US]) 01 May 2001 (2001-05-01) * abstract; figures 6-7 *	1-15
A	US 2008202291 A1 (BOULIGNY VERNON J [US] ET AL) 28 August 2008 (2008-08-28) * paragraph [0049] - paragraph [0053]; figures 7-11 *	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 Munich	Date of completion of the search 17 September 2020	Examiner Strømmen, Henrik
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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 17-09-2020
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