

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 53NOP327760PCT2	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2019/025419	International filing date ( <i>day/month/year</i> ) 26 November 2019 (26-11-2019)	(Earliest) Priority Date ( <i>day/month/year</i> ) 28 November 2018 (28-11-2018)
Applicant  VETCO GRAY SCANDINAVIA AS		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

- the international application in the language in which it was filed  
 a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b.  This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6**bis**(a)).

c.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (See Box No. II)

3.  **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- the text is approved as submitted by the applicant  
 the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant  
 the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 2

- as suggested by the applicant  
 as selected by this Authority, because the applicant failed to suggest a figure  
 as selected by this Authority, because this figure better characterizes the invention

b.  none of the figures is to be published with the abstract

**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/EP2019/025419

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. F16L55/46  
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)  
F16L 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	US 4 019 334 A (SINCLAIR ALBERT R ET AL) 26 April 1977 (1977-04-26) figures 1-5 -----	1,3,4
X	GB 2 195 740 A (BRITISH PETROLEUM CO PLC; SEANOR ENG AS) 13 April 1988 (1988-04-13) figures 1, 4 -----	1,5,6
X	US 5 769 955 A (KOZISEK LOUIS C [US]) 23 June 1998 (1998-06-23) figures 1-5 -----	1,2
X,P	WO 2018/217099 A1 (NAUTILUS SUBSEA AS [NO]) 29 November 2018 (2018-11-29) figures 1-25 -----	1,4-6

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  10 March 2020	Date of mailing of the international search report  23/03/2020
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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  Wojski, Guadalupe
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/EP2019/025419
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4019334	A	26-04-1977	AU 508887 B2 03-04-1980
			CA 1059328 A 31-07-1979
			GB 1576065 A 01-10-1980
			JP S5944478 B2 30-10-1984
			JP S52111801 A 19-09-1977
			US 4019334 A 26-04-1977
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GB 2195740	A	13-04-1988	NONE
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US 5769955	A	23-06-1998	NONE
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WO 2018217099	A1	29-11-2018	AU 2018273454 A1 16-01-2020
			EP 3631159 A1 08-04-2020
			WO 2018217099 A1 29-11-2018
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