

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SUS-1338-PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2022/049186	International filing date (<i>day/month/year</i>) 8 November 2022 (08-11-2022)	(Earliest) Priority Date (<i>day/month/year</i>) 10 November 2021 (10-11-2021)
Applicant SASOL CHEMICALS GMBH		

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 43.6bis(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:

INJECTION FLUIDS COMPRISING PROPOXYLATED ALCOHOLS AND THE USE OF SUCH FLUIDS FOR ACID STIMULATION DURING OIL RECOVERY PROCESSES

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. _____
☐ 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/US2022/049186

A. CLASSIFICATION OF SUBJECT MATTER
INV. C09K8/74 C09K8/82
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)
C09K 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.
A	US 2014/073540 A1 (BERRY SANDRA L [US] ET AL) 13 March 2014 (2014-03-13) cited in the application claims 20,21; example 1 -----	1-35
A	US 2011/303414 A1 (SETH KUSHAL [US] ET AL) 15 December 2011 (2011-12-15) claim 1; example 1 -----	1-35
A	GB 2 141 731 A (WARDWELL JONES LOYD) 3 January 1985 (1985-01-03) claim 1; examples 1,2 -----	1-35
A	US 2017/051195 A1 (VANZIN DAVID [US] ET AL) 23 February 2017 (2017-02-23) paragraph [0061]; claim 1; example 1 -----	1-35

☐ 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

14 March 2023

Date of mailing of the international search report

21/03/2023

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

Redecker, Michael

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2022/049186

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2014073540 A1	13-03-2014	AU 2013316040 A1	12-03-2015
		CA 2883675 A1	20-03-2014
		EP 2895573 A1	22-07-2015
		US 2014073540 A1	13-03-2014
		WO 2014042792 A1	20-03-2014
US 2011303414 A1	15-12-2011	US 2011303414 A1	15-12-2011
		WO 2011159398 A2	22-12-2011
GB 2141731 A	03-01-1985	GB 2141731 A	03-01-1985
		NL 8401960 A	16-01-1985
US 2017051195 A1	23-02-2017	US 2017051195 A1	23-02-2017
		WO 2017034923 A1	02-03-2017