

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 4082-0008WO10	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/IB2022/058030	International filing date (<i>day/month/year</i>) 26 Aug 2022	(Earliest) Priority Date (<i>day/month/year</i>) 27 Aug 2021
Applicant PSIP2 LLC		

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 6 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:

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. 1A

☒ 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.

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International application No.

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Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See extra sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

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PCT/IB2022/058030

A. CLASSIFICATION OF SUBJECT MATTER IPC (20220101) A61B 1/00, A61B 1/05, A61B 17/34 CPC (20130101) A61B 1/00066, A61B 1/00101, A61B 1/00105, A61B 1/00121, A61B 1/05, A61B 17/34 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) IPC (20220101) A61B 1/00, A61B 1/05, A61B 17/34 CPC (20130101) A61B 1/00066, A61B 1/00101, A61B 1/00105, A61B 1/00121, A61B 1/05, A61B 17/34 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) Databases consulted: PatBase, Orbit, Similari (AI-based)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2019/0328217 A1 (DEKA PRODUCTS LTD. PARTNERSHIP [US]) 31 Oct 2019 (2019/10/31) paragraphs [0005], [0080], [0136], [0143], [0154], [0180], [0229]-[0237]; figures 3-5, 9B, 16-19, 23	1,4-7,13-18
X	US 2018/0168442 A1 (COOK MEDICAL TECHNOLOGIES LLC [US]) 21 Jun 2018 (2018/06/21) paragraphs [0002], [0070]-[0071], [0091], [0101], [0105], [0123]; figures 1-4, 7, 8	1,5-7
X	US 2019/0374095 A1 (PRISTINE SURGICAL LLC [US]) 12 Dec 2019 (2019/12/12) Abstract; paragraphs [[0015], [0027]; figures 1a,b, 4c	1,6,7
X	US 2020/0397232 A1 (KARL STORZ SE & CO. KG [DE]) 24 Dec 2020 (2020/12/24) paragraphs [0002], [0013], [0059]-[0063]; figure 1	1,6,7
A	WO 2021/161228 A1 (FISHER & PAYKEL HEALTHCARE LTD. [NZ]) 19 Aug 2021 (2021/08/19) the whole document	1-18
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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 "D" document cited by the applicant in the international application "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 15 Dec 2022		Date of mailing of the international search report 19 Dec 2022
Name and mailing address of the ISA: Israel Patent Office Technology Park, Bldg.5, Malcha, Jerusalem, 9695101, Israel Email address: pctoffice@justice.gov.il		Authorized officer SEGAL Liviu Telephone No. 972-73-3927134

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/IB2022/058030

Patent document cited search report	Publication date	Patent family member(s)	Publication Date
US 2019/0328217 A1	31 Oct 2019	US 2019328217 A1	31 Oct 2019
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		CA 3098310 A1	31 Oct 2019
		CN 112218568 A	12 Jan 2021
		EP 3784109 A1	03 Mar 2021
		JP 2021521989 A	30 Aug 2021
		KR 20210005682 A	14 Jan 2021
		WO 2019210227 A1	31 Oct 2019
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		EP 2961308 A1	06 Jan 2016
		EP 2961308 B1	18 Mar 2020
		JP 2016515842 A	02 Jun 2016
		JP 6302940 B2	28 Mar 2018
		US 2014243615 A1	28 Aug 2014
		US 9895055 B2	20 Feb 2018
		WO 2014134257 A1	04 Sep 2014
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		CA 3102585 A1	12 Dec 2019
		CN 112236173 A	15 Jan 2021
		EP 3801645 A1	14 Apr 2021
		JP 2021526419 A	07 Oct 2021
		KR 20210018468 A	17 Feb 2021
		WO 2019234712 A1	12 Dec 2019
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		CN 112107283 A	22 Dec 2020
		DE 102019004433 A1	24 Dec 2020
		EP 3753471 A1	23 Dec 2020
		EP 3753472 A1	23 Dec 2020

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Information on patent family members

International application No.

PCT/IB2022/058030

Patent document cited search report			Publication date		Patent family member(s)		Publication Date	
WO	2021/161228	A1	19 Aug 2021	EP	3753473	A1	23 Dec 2020	
				US	2020397228	A1	24 Dec 2020	
				US	11185216	B2	30 Nov 2021	
				US	2021007584	A1	14 Jan 2021	
				WO	2021161228	A1	19 Aug 2021	
				<hr/>				
			AU	2021220345	A1	06 Oct 2022		
			CN	115397344	A	25 Nov 2022		

INTERNATIONAL SEARCH REPORT

International application No.

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Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet):

* This International Searching Authority found multiple inventions in this international application, as follows:

Invention/s 1	an endoscope, wherein the handle and its components being formed of biocompatible material and designed with no metal fasteners, no adhesives, and no detachable parts small enough to travel through fluid passages of the insertion shaft.	Claim/s 1-7
Invention/s 2	an endoscope, wherein the handle is formed of inner and outer shells concentric with each other.	Claim/s 8-12
Invention/s 3	an endoscope set comprising an endoscope, cannula and obturator.	Claim/s 13-18