

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference H-IK-00015-WO		FOR FURTHER ACTION	
		see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US19/64278	International filing date (<i>day/month/year</i>) 03 December 2019 (03.12.2019)	(Earliest) Priority Date (<i>day/month/year</i>) 03 December 2018 (03.12.2018)	
Applicant MALLINCKRODT HOSPITAL PRODUCTS IP LIMITED			

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:

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/US19/64278

A. CLASSIFICATION OF SUBJECT MATTER

IPC - A61M 16/10, 16/12; G01N 1/22 (2020.01)

CPC - A61M 16/10, 16/12; G01N 1/22

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)

See Search History document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

See Search History document

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

See Search History document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y -- A	WO 2016/207838 A1 (FISHER AND PAYKEL HEALTHCARE LIMITED) 29 December 2016; paragraphs [00185], [00359]-[00363], [00397], [00403], [00407]-[00408], [00413], [00478]; figures 17a-17b, 19-21	1, 4-5, 7, 9-10, 12-13, 16/1, 16/4-5, 16/7, 16/9-10, 16/12-13, 17/16/1, 17/16/4-5, 17/16/7, 17/16/9-10, 17/16/12-13, 18/16/1, 18/16/4-5, 18/16/7, 18/16/9-10, 18/16/12-13 -- 2-3, 6, 8, 11, 14-15, 16/2-3, 16/6, 16/8, 16/11, 16/14-15, 17/16/2-3, 17/16/6, 17/16/8, 17/16/11, 17/16/14-15, 18/16/2-3, 18/16/6, 18/16/8, 18/16/11, 18/16/14-15, 19/16/2-3, 19/16/6, 19/16/8, 19/16/11, 19/16/14-15 -- 20/1-15, 21/20/1-15, 22/20/1-15, 23/20/1-15, 24/20/1-15

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

"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

23 January 2020 (23.01.2020)

Date of mailing of the international search report

18 FEB 2020

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-8300

Authorized officer

Shane Thomas

Telephone No. PCT Helpdesk: 571-272-4300

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US19/64278

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2015/0351690 A1 (TRICORD HOLDINGS, L.L.C.) 10 December 2015; paragraphs [0042], [0047]	2-3, 11, 16/2-3, 16/11, 17/16/2-3, 17/16/11, 18/16/2-3, 18/16/11
Y	US 2015/0273176 A1 (INO THERAPEUTICS LLC) 01 October 2015; paragraphs [0066]-[0068]	6, 8, 16/6, 16/8, 17/16/6, 17/16/8, 18/16/6, 18/16/8
Y	US 2017/0188908 A1 (ABBOTT DIABETES CARE INC.) 06 July 2017; paragraphs [0060], [0154]	14-15, 16/14-15, 17/16/14-15, 18/16/14-15 -- 20/1-15, 21/20/1-15, 22/20/1-15, 23/20/1-15, 24/20/1-15
Y	WO 2018/157172 A1 (THIRD POLE, INC.) 30 August 2018; paragraph [00246]	19/16/1-15
A	(SPEC Sensors) "Analog Sensor Developer Kit – User Manual" November 2016; page 1, heading Please review contents of package to confirm that you have received everything	20/1-15, 21/20/1-15, 22/20/1-15, 23/20/1-15, 24/20/1-15
A	(FIGARO) "Operating principle" 30 November 2018; page 3, heading Storage Conditions	20/1-15, 21/20/1-15, 22/20/1-15, 23/20/1-15, 24/20/1-15
P, X	WO 2019/070136 A1 (FISHER AND PAYKEL HEALTHCARE LIMITED) 11 April 2019; entire document	1