

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference xmsc2020004	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/CN2020/082258	International filing date (<i>day/month/year</i>) 31 March 2020	(Earliest) Priority Date (<i>day/month/year</i>) 01 April 2019
Applicant VASCUROS MEDICAL (SHANGHAI) CO., LTD		

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 5 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. 1

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.

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: **1-4**
because they relate to subject matter not required to be searched by this Authority, namely:
 - [1] The subject matter of claims 1-4, which encompasses a method of treatment of the human/animal body, is not required to be searched by this Authority under Rule 39.1 (iv) PCT. Regardless, the search has been carried out and based on use of the balloon aspiration catheter and the drug coated balloon catheter for the manufacture of a medicament for the therapeutic application.

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. IV **Text of the abstract (Continuation of item 5 of the first sheet)**

A method for removing free floating non-therapeutic drug particles released from a drug coated balloon catheter is disclosed.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2020/082258

A. CLASSIFICATION OF SUBJECT MATTER		
A61M 25/10(2013.01)i; A61M 25/01(2006.01)i; A61M 31/00(2006.01)i; A61L 29/08(2006.01)i; A61L 29/16(2006.01)i		
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) A61M; A61L		
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) DWPI, VEN, CNABS, CNTXT, CNKI, WANFANG, ISI WEB OF SCIENCE, ELSEVIER SCIENCE DIRECT, GOOGLE scholar, baidu scholar: balloon, catheter, drug, coat+, particl+, aspiration, angioplasty, float+		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2019009809 A1 (VASCUROS MEDICAL SHANGHAI CO LTD) 10 January 2019 (2019-01-10) claims 1-6, description page 4 lines 10-25	1-4
X	WO 2018093329 A1 (SHANGHAI MAIKE MEDICAL TECHNOLOGY CO LTD et al.) 24 May 2018 (2018-05-24) claims 1-3, description page 3 lines 27-37, abstract	1-4
X	WO 2019024726 A1 (HANGZHOU WEIQIANG MEDICAL TECHNOLOGY CO LTD et al.) 07 February 2019 (2019-02-07) claims 1-2, description page 1 lines 21-29, page 3 lines 14-21, abstract	1-4
<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 "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 June 2020		Date of mailing of the international search report 06 July 2020
Name and mailing address of the ISA/CN National Intellectual Property Administration, PRC 6, Xitucheng Rd., Jimen Bridge, Haidian District, Beijing 100088 China		Authorized officer DOU,Bojian
Facsimile No. (86-10)62019451		Telephone No. 62411125

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2020/082258

Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
WO	2019009809	A1	10 January 2019	None			
WO	2018093329	A1	24 May 2018	CN	109414571	A	01 March 2019
WO	2019024726	A1	07 February 2019	CN	109381783	A	26 February 2019
				CN	208448410	U	01 February 2019