

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CN2017/000504

## A. CLASSIFICATION OF SUBJECT MATTER

A61B 1/31 (2006.01) i; A61B 1/00 (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)

A61B

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)

CNPAT, EPODOC, WPI, CNKI: 沈阳尚贤医疗系统有限公司, 套筒, 前置, 前端, 连接, 扩充, 扩大, 内窥镜, 肠镜, 孔, 铰接, 突出, 第二, endoscope, open, enlarge, visual, sleeve?, hole?, groove, slot, protrud+, element?

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 102905608 A (ARC MEDICAL DESIGN LIMITED), 30 January 2013 (30.01.2013), description, paragraphs [0044]-[0074], and figures 1-12	1-4, 7-10
PX	CN 106343941 A (SHENYANG SHANGXIAN MEDICAL SYSTEM CO., LTD.), 25 January 2017 (25.01.2017), description, paragraphs [0034]-[0042], and figures 1-12	1-10
A	CN 105101860 A (ENDO AID LTD.), 25 November 2015 (25.11.2015), entire document	1-10
A	CN 103458762 A (OLYMPUS MEDICAL SYSTEMS CORP.), 18 December 2013 (18.12.2013), entire document	1-10
A	CN 204500591 U (ZHANG, Mingqing et al.), 29 July 2015 (29.07.2015), entire document	1-10
A	JP 2003180611 A (OLYMPUS OPTICAL CO., LTD.), 02 July 2003 (02.07.2003), entire document	1-10

Further documents are listed in the continuation of Box C.

See patent family annex.

<p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“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</p> <p>“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</p> <p>“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</p> <p>“&amp;” document member of the same patent family</p>
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11 September 2017

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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/CN2017/000504

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 102905608 A	30 January 2013	US 2013090527 A1	11 April 2013
		RU 2566918 C2	27 October 2015
		GB 2478081 B	04 January 2012
		KR 20130109937 A	08 October 2013
		JP 2013529958 A	25 July 2013
		HK 1179139 A1	12 August 2016
		AU 2011256957 B2	19 September 2013
		EP 2937034 A1	28 October 2015
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CN 204500591 U	29 July 2015	None	
JP 2003180611 A	02 July 2003	None	