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(54) **Apparatus for cleaning a distal scope end of a medical viewing scope**

(57) A first apparatus for cleaning a distal end of a medical scope includes an annular sheath surroundingly attachable to the scope wherein the distal scope end is in fluid communication with the distal end of a lumen of the attached sheath with the proximal lumen end fluidly connectable to an irrigation fluid source and/or vacuum source. A second apparatus includes a motor-driven rotatable cannula having a closed distal end. A third apparatus includes an annular sheath and a lens which closes

off the sheath, wherein the scope is insertable into the sheath, and wherein the lens is exposed to a distal lumen end of a lumen of the attached sheath. A fourth apparatus includes an annular sheath and a transparent shield rotatable attachable to the sheath to seal the distal sheath end. A fifth apparatus includes a sleeve attachable to and slidable along a scope.

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 6 354 992 B1 (KATO DANIEL T [US]) 12 March 2002 (2002-03-12) * column 2, line 25 - line 28 * * column 3, line 17 - line 23 * * column 3, line 44 - line 59 * * figures 1-3 * * claims *	1-5,7	INV. A61B1/12 A61B1/313
Y	-----	6,8-11	
X	WO 92/22238 A (JONES JEFFREY S [US]) 23 December 1992 (1992-12-23) * page 6, line 22 - page 7, line 32 * * page 9, line 27 - page 10, line 4 * * page 11, lines 1-11 * * figures 2,3,7 *	13	
A	-----	1-11	
X	WO 2006/014814 A (SDGI HOLDINGS INC [US]; ADAMS KENNETH M [US]) 9 February 2006 (2006-02-09) * page 2, lines 10-15 * * page 4, lines 19-21 * * page 5, lines 13-18 * * page 7, lines 21-26 * * figures 1,2 *	15	TECHNICAL FIELDS SEARCHED (IPC) A61B
A	-----	1-11	
Y	US 5 313 934 A (WIITA BRUCE E [US] ET AL) 24 May 1994 (1994-05-24) * column 4, lines 15-36 * * column 5, line 54 - column 6, line 10 * * figures 1,2,8,10 *	8-11	
Y	US 6 017 333 A (BAILEY ROBERT W [US]) 25 January 2000 (2000-01-25) * column 4, lines 45-49 * * figures 8-10 *	6	
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<del>The present search report has been drawn up for all claims</del>			
Place of search The Hague		Date of completion of the search 28 March 2008	Examiner Bataille, Frédéric
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

4 EPO FORM 1503 03/82 (P04/C01)

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:  
1-11, 13, 15
- The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-11,13,15

An oversleeve comprising an expandable distal tip or a lumen for irrigating or suctioning the distal end of a medical viewing scope

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2. claims: 12,14

An oversleeve comprising rotation means

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ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 07 25 3898

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-03-2008

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专利名称(译)	用于清洁医学观察镜的远端镜体端部的装置		
公开(公告)号	<a href="#">EP1911392A3</a>	公开(公告)日	2008-07-30
申请号	EP2007253898	申请日	2007-10-02
[标]申请(专利权)人(译)	伊西康内外科公司		
申请(专利权)人(译)	爱惜康内镜手术, INC.		
当前申请(专利权)人(译)	爱惜康内镜手术, INC.		
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发明人	WEISENBURGH II, WILLIAM B. GILL, ROBERT P. HESS, CHRISTOPHER J. CUMMINGS, JOHN F.		
IPC分类号	A61B1/12 A61B1/313		
CPC分类号	A61B1/00135 A61B1/126 A61B1/127 A61B1/3132		
优先权	11/542060 2006-10-03 US		
其他公开文献	EP1911392A2		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

用于清洁医疗镜的远端的第一装置包括环形护套, 所述环形护套可环绕地附接到所述窥镜, 其中所述远端窥镜端部与所述附接护套的内腔的远端流体连通, 所述近端内腔端部可流体地连接到所述外腔。灌溉流体源和/或真空源。第二装置包括具有封闭远端的马达驱动的可旋转套管。第三装置包括环形护套和封闭护套的透镜, 其中窥镜可插入护套中, 并且其中透镜暴露于附接护套的内腔的远端内腔端部。第四装置包括环形护套和透明护罩, 透明护罩可旋转地附接到护套以密封远端护套端部。第五装置包括可附接到窥镜并可沿着窥镜滑动的套筒。

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICABLE CLASS (IPC)
X	US 6 354 992 B1 (KATO DANIEL T [US]) 12 March 2002 (2002-03-12) * column 2, line 25 - line 28 * * column 3, line 17 - line 23 * * column 3, line 44 - line 59 * * figures 1-3 *	1-5,7	INV. A61B1/12 A61B1/313
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Y	US 5 313 934 A (WILTA BRUCE E [US] ET AL) 24 May 1994 (1994-05-24) * column 4, lines 15-36 * * column 5, line 28 - column 6, line 10 * * figures 1,2,8,10 *	1-11	
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Y	US 6 017 333 A (BAILEY ROBERT W [US]) 25 January 2000 (2000-01-25) * column 4, lines 45-49 * * figures 8-10 *	6	

  

4	Title of section <b>The Hague</b>	Date of designation of the section <b>28 March 2008</b>	Examiner <b>Bataille, Frédéric</b>
CATEGORY OF CITED DOCUMENTS <input checked="" type="checkbox"/> particularly relevant & taken alone <input checked="" type="checkbox"/> particularly relevant & considered with another document of the same category <input checked="" type="checkbox"/> non-relevant & non-prior art <input type="checkbox"/> other non-patent documents			
1. source or category under which the invention was first made 2. document cited for other reasons 3. document of the same patent family, corresponding document			