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(54) **Endoscopic apparatus for manipulating tissue**

(57) An apparatus (10) for manipulating tissue during a surgical procedure is provided. The apparatus includes a housing (30) including a movable handle (26) and a release mechanism (40) operatively coupled to a distal end (12b) of a shaft (12) extending from the housing. The shaft defines an axial passageway configured to support at least a portion of the release mechanism. The present disclosure also provides a detachable clamp assembly (100) operatively connectable to the distal end of the shaft

and the release mechanism such that a pair of pivotally connected opposing jaw members (110,120) are movable from a closed configuration for clamping tissue therebetween to an opened configuration for positioning tissue therebetween when the movable handle is moved from a first position to a second position. The clamp assembly includes a proximal end operatively coupled to a first end of a suture (36) having a second end connected to a needle (38).

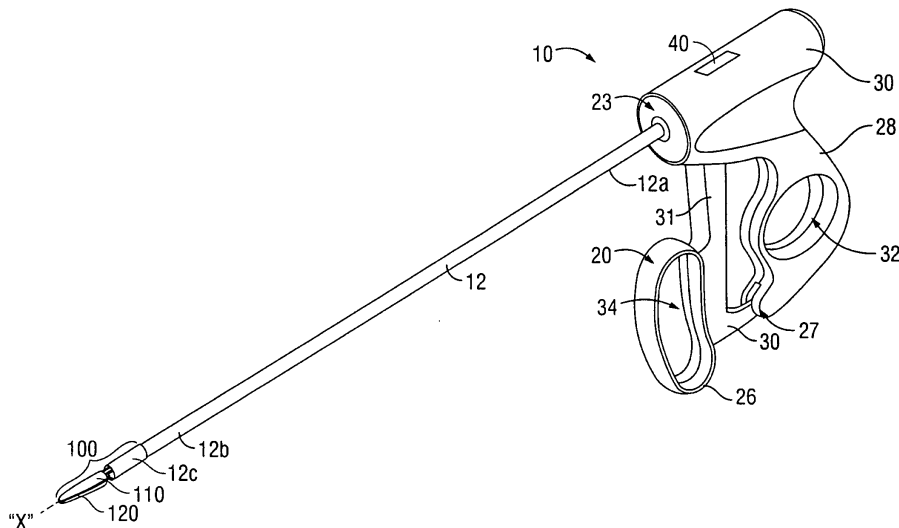


FIG. 1A

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PARTIAL EUROPEAN SEARCH REPORT

Application Number

under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of subsequent proceedings, as the European search report

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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	WO 93/18712 A1 (LAPAROMED CORP [US]) 30 September 1993 (1993-09-30) * page 9, line 19 - page 10, line 27 * * page 11, lines 3-36 * * figures 1,2,3A,3B,4A,4B,6A-D,12 * -----	1-6	INV. A61B17/128 A61B17/29 ADD. A61B17/00 A61B17/122
X	US 5 749 881 A (SACKIER JONATHAN M [US] ET AL) 12 May 1998 (1998-05-12) * column 4, line 21 - column 5, line 16 * * column 7, lines 3-25 * * figures 1,2,5,6,9,10 * -----	1-6	
X	US 5 618 307 A (DONLON BRIAN S [US] ET AL) 8 April 1997 (1997-04-08) * column 14, line 38 - column 15, line 26; figures 17-22 * -----	1-6	
X	EP 1 230 899 A1 (STORZ KARL IMAGING INC [US] STORZ ENDOSCOPY AMERICA KARL [US]) 14 August 2002 (2002-08-14) * paragraphs [0018] - [0022], [0025]; figures 2a-c,3a-c,4a,4b,5a,5b * -----	1-6	
			TECHNICAL FIELDS SEARCHED (IPC)
			A61B
INCOMPLETE SEARCH			
The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.			
Claims searched completely :			
Claims searched incompletely :			
Claims not searched :			
Reason for the limitation of the search: see sheet C			
Place of search		Date of completion of the search	Examiner
Munich		25 January 2011	Maier, Christian
CATEGORY OF CITED DOCUMENTS		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	
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			

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EPO FORM 1503 03.82 (P04E07)

**INCOMPLETE SEARCH
SHEET C**

Application Number

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Claim(s) completely searchable:

1-6

Claim(s) not searched:

7-14

Reason for the limitation of the search:

In reply to the invitation to indicate the claims on which the search is to be based, the applicant failed to supply the requested indication in due time.

In his letter of 06.08.2010 he argued that independent claims 1,7,10,14 relate to a plurality of interrelated products, because

a) independent claims 1,14 relate to an apparatus for manipulating tissue, wherein the apparatus as defined in claim 1 is configured to open the jaw members of the clamp assembly, while the apparatus as defined in claim 14 is configured to close the jaw members of the clamp assembly, b) independent claim 7 clearly relates to the apparatuses of claims 1,14, and

c) independent claim 10 relates to an endoscopic apparatus and is therefore also related to claims 1,14.

However, this argumentation cannot be followed because the apparatuses of claims 1,14 are not interrelated products in the sense of Rule 43(2)(a) EPC, as they are each completely self-contained in performing the invention, i.e. for performing the invention it is not required that the apparatuses of claims 1,14 interact with each other. Moreover, they can also not be regarded as alternative solutions to a particular problem in the sense of Rule 43(2)(c) EPC, as they clearly solve different problems, viz. the opening of the jaws and the closing of the jaws of the clamp assembly.

Furthermore, the detachable clamp assembly as defined in claim 7 is merely suitable to connect to an endoscopic apparatus and can therefore also not be regarded as an interrelated product to the apparatuses of claims 1,14 in the sense of Rule 43(2)(a) EPC. The same reasoning applies, mutatis mutandis, to the endoscopic apparatus of claim 10. Thus, the search report has been drawn up on the basis of the first independent claim of each category (Rule 62a(1) EPC): Independent claim 1 and its associated dependencies were completely searched.

The applicant's attention is drawn to the fact that the application will be further prosecuted on the basis of subject-matter for which a search has been carried out and that the claims should be limited to that subject-matter at a later stage of the proceedings (Rule 62a(2) EPC).

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

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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.

25-01-2011

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9318712	A1	30-09-1993	AU 3930293 A	21-10-1993

US 5749881	A	12-05-1998	NONE	

US 5618307	A	08-04-1997	NONE	

EP 1230899	A1	14-08-2002	DE 60211044 T2	19-04-2007
			DE 60224460 T2	18-12-2008
			JP 2002272752 A	24-09-2002
			US 2002107533 A1	08-08-2002

专利名称(译)	用于操纵组织的内窥镜设备		
公开(公告)号	EP2238919A3	公开(公告)日	2011-03-02
申请号	EP2010250549	申请日	2010-03-23
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发明人	WINGARDNER, THOMAS FOWLER, DAVID		
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CPC分类号	A61B17/122 A61B17/0401 A61B17/062 A61B17/1285 A61B2017/00265 A61B2017/00473 A61B2017/0464 A61B2017/2931		
优先权	12/721622 2010-03-11 US 61/162833 2009-03-24 US		
其他公开文献	EP2238919A2		
外部链接	Espacenet		

摘要(译)

提供了一种用于在外科手术过程中操纵组织的装置。该装置包括壳体，该壳体包括可动手柄和可操作地连接到从壳体延伸的轴的远端的释放机构。轴限定轴向通道，该轴向通道构造成支撑释放机构的至少一部分。本公开还提供了可拆卸的夹具组件，其可操作地连接到轴的远端和释放机构，使得一对可枢转地连接的相对的钳口构件可从闭合构造移动，用于将组织夹在其间，到打开构造，用于在其间定位组织。当可动手柄从第一位置移动到第二位置时。夹具组件包括可操作地连接到缝合线的第一端的近端，该第二端具有连接到针的第二端。

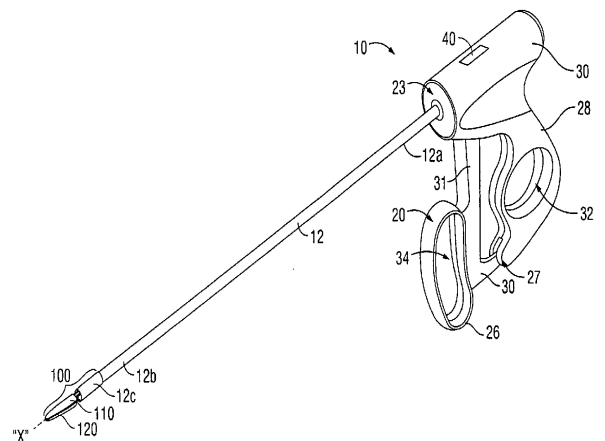


FIG. 1A