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(54) **Reloadable laparoscopic fastener deploying device for use in a gastric volume reduction procedure**

(57) A reloadable device for deploying fasteners including a handle and at least one actuator. The handle is connected to an elongated hollow housing having distal and proximal ends. The device also includes a first cartridge containing at least one fastener releasably connectable to the distal end of hollow housing. The fastener has at least two anchors connected together by a non-resilient flexible suture which does not resist deformation under compressible loads. The device also includes a means for facilitating removal the first cartridge and replacing it with a second cartridge.

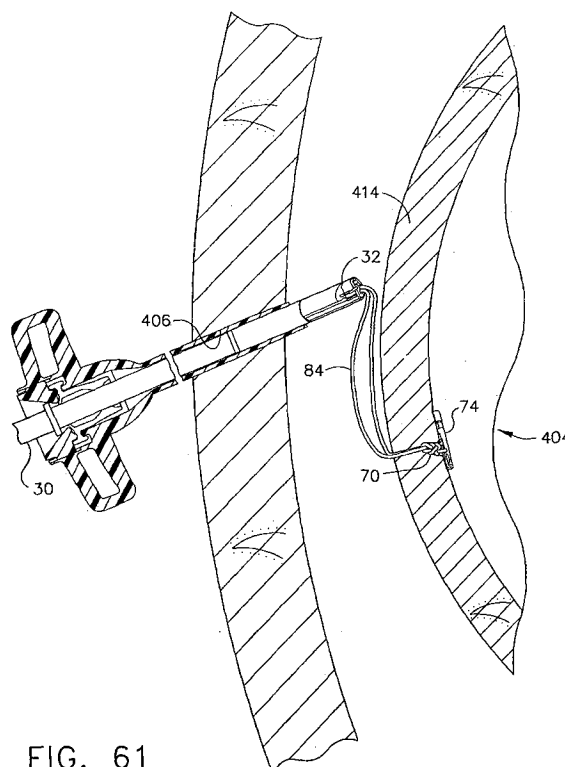


FIG. 61



EUROPEAN SEARCH REPORT

Application Number
EP 08 25 3541

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	EP 1 762 185 A1 (OLYMPUS MEDICAL SYSTEMS CORP [JP]) 14 March 2007 (2007-03-14) * paragraph [0021] - paragraph [0032]; figures *	1-12	INV. A61B17/068
A	----- US 5 865 361 A (MILLIMAN KEITH L [US] ET AL) 2 February 1999 (1999-02-02) * figure 12 *	1-12	
A	----- WO 2005/110280 A2 (VALENTX INC [US]; DANN MITCHELL [US]; GUTERMAN LEE [US]; KAGAN JONATHA) 24 November 2005 (2005-11-24) * figures *	1-12	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			A61B
3	Place of search Munich	Date of completion of the search 15 March 2010	Examiner Held, Günter
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			

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

EP 08 25 3541

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
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15-03-2010

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1762185	A1	14-03-2007	JP 2007075613 A	29-03-2007
			US 2007060929 A1	15-03-2007

US 5865361	A	02-02-1999	AU 750646 B2	25-07-2002
			AU 9774898 A	12-04-1999
			CA 2304750 A1	01-04-1999
			CA 2666604 A1	01-04-1999
			DE 69836436 T2	27-09-2007
			EP 2113207 A2	04-11-2009
			EP 2156796 A1	24-02-2010
			EP 1021130 A1	26-07-2000
			ES 2275317 T3	01-06-2007
			JP 4257029 B2	22-04-2009
			JP 2001517473 T	09-10-2001
			JP 2008086786 A	17-04-2008
			JP 2008086787 A	17-04-2008
			JP 2008086788 A	17-04-2008
			JP 2008100085 A	01-05-2008
			WO 9915086 A1	01-04-1999
			US 6079606 A	27-06-2000
			US 2006255090 A1	16-11-2006
			US 2005067460 A1	31-03-2005

WO 2005110280	A2	24-11-2005	EP 1750595 A2	14-02-2007
			US 2006020247 A1	26-01-2006
			US 2006293742 A1	28-12-2006
			US 2006206063 A1	14-09-2006
			US 2006206064 A1	14-09-2006
			US 2007198074 A1	23-08-2007

专利名称(译)	可重新加载的腹腔镜紧固件展开装置，用于胃减容过程		
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优先权	11/930246 2007-10-31 US		
其他公开文献	EP2055241A2		
外部链接	Espacenet		

摘要(译)

一种用于展开紧固件的可重新加载装置，包括手柄和至少一个致动器。手柄连接到具有远端和近端的细长中空壳体。该装置还包括第一盒，其包含至少一个可释放地连接到中空壳体的远端的紧固件。该紧固件具有至少两个通过非弹性柔性缝合线连接在一起的锚固件，所述非弹性柔性缝合线在可压缩负载下不会抵抗变形。该装置还包括用于便于移除第一盒并用第二盒替换它的装置。

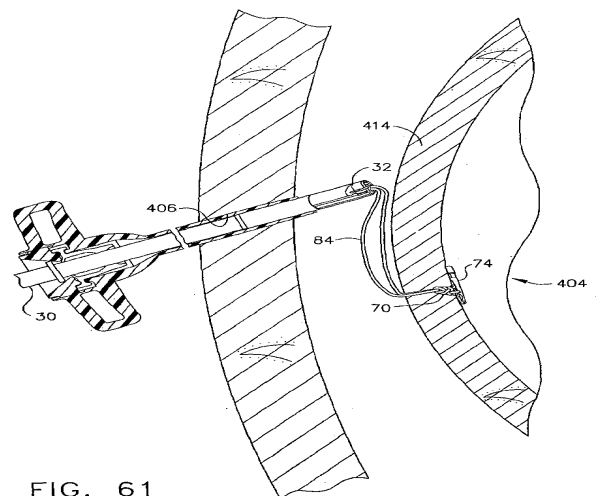


FIG. 61