

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 15 85 8114

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 2013/253543 A1 (HENEVELD SCOTT [US]) 26 September 2013 (2013-09-26)	1,7	INV. A61B17/03
A	* figures 3,6-10B * * paragraphs [0064] - [0066], [0069] * -----	2-6	A61B17/04 A61B17/34
A	WO 01/67963 A2 (SUTURA INC [US]; NOBLES ANTHONY A [US]; DECKER STEVEN [US]) 20 September 2001 (2001-09-20) * page 24, line 15 - page 27, line 23 * -----	1-7	
A	US 2002/049453 A1 (NOBLES ANTHONY A [US] ET AL) 25 April 2002 (2002-04-25) * paragraphs [0055] - [0061], [0076] * -----	1-7	
			TECHNICAL FIELDS SEARCHED (IPC)
			A61B
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search Munich		Date of completion of the search 19 April 2018	Examiner Lüddemann, Tobias
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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EPO FORM 1503 03.82 (P04N04)

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due 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 those claims for which no payment was due.

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 (supplementary) 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 (supplementary) 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 (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims:

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: 1-7

Inventions

1.1. claims: 1-6

laparoscopic port site closure device with a tubular body, needle guides, wings, an operating stick and a lock mechanism to lock the operating stick rotationally to allow pushing and pulling of the stick to open and close the wings together with
a replaceable cartridge (30) provided on a lower end of the tubular body (10) to be detachably combined with the operating stick (20), wherein the cartridge (30) is provided with the wings (33) capable of being opened by operating the operating stick, and provided with a compartment (32) for receiving surgical suture (40) therein, wherein the laparoscopic port site closure device is configured such that opposites ends of the surgical suture (40) in the compartment are threaded through the wings (33) such that the ends of the surgical suture are pulled out of a patient's body by being caught by a suture slot of a needle (50) that is pierced into the patient's body from outside.

1.2. claim: 7

laparoscopic port site closure device with a tubular body, needle guides, wings, an operating stick and a lock mechanism to lock the operating stick rotationally to allow pushing and pulling of the stick to open and close the wings together with
a needle (50) including a suture slot (52) for catching and pulling out surgical suture by being concavely formed on a needle tip in an opposite direction of pulling the surgical suture.

Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

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

EP 15 85 8114

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.

19-04-2018

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2013253543 A1	26-09-2013	EP 2825101 A1	21-01-2015
		US 2013253543 A1	26-09-2013
		US 2016220238 A1	04-08-2016
		WO 2013138140 A1	19-09-2013

WO 0167963 A2	20-09-2001	AU 4918501 A	24-09-2001
		WO 0167963 A2	20-09-2001

US 2002049453 A1	25-04-2002	AU 6982501 A	24-12-2001
		EP 1303218 A1	23-04-2003
		US 2002049453 A1	25-04-2002
		US 2005228407 A1	13-10-2005
		WO 0195809 A1	20-12-2001

公开了一种腹腔镜端口部位闭合装置。该装置被配置成使得在其中接收外科缝合线的药筒设置在针引导件的前端处，用于端口部位闭合；手术缝合线被针尖捕获，该针尖通过针导向器刺穿身体组织；当针被抽出时，手术缝合线沿着穿过针刺入组织的路径被拉出，并且手术缝合线被绑在患者体外，从而能够关闭腹腔镜端口部位。

 European Union European Commission Directorate General for Research and Innovation		EUROPEAN RESEARCH INFRASTRUCTURE CONFERENCE		Application Number EP 15 85 8114	
DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document with indicator, where appropriate, of editorial treatment.	Relevance to the application. (RQ)	CLASSIFICATION OF THE APPLICATION. (RC)		
X	US 2013/253543 A1 (HENEVELD-SCOTT (US))	1-7	INV		
A	26 September 2013 (2013-09-26) * * figures 3,6-108 * paragraphs [0064] - [0066], [0069] *	2-6	A61817/03 A61817/04 A61817/34		
A	WO 01/67963 A2 (SUTURA INC [US]; NOBLES ANTHONY A [US]; DECKER STEVEN [US]) 20 September 2001 (2001-09-20) * * page 24, line 15 * page 27, line 23 *	1-7			
A	US 2002/049453 A1 (NOBLES ANTHONY A [US]; ET AL) 25 April 2002 (2002-04-25) * * paragraphs [0055] - [0061], [0076] *	1-7			
			TECHNICAL FIELD OF THE APPLICATION (RQ)		
			A61B		
The supplementary search report has been based on the last set of claims valid available at the state of the search.					
Number of search Munich		Number of prosecution of the search 19 April 2018		Examiner Luddemann, Tobias	
CATEGORY OF CITED DOCUMENTS					
2	technicality relevant if alone alone contributing relevant if alone alone non-technicality relevant if alone alone non-technicality relevant if alone alone non-technicality relevant if alone alone	1. priority documents underlying the patent document, published on, or after, the filing date of the application 2. non-prior art documents 3. number of the same patent family, corresponding to the priority documents			