

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 15 78 2255

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 2004/129591 A1 (KOSEKI TOMOAKI [JP]) 8 July 2004 (2004-07-08) * paragraphs [0025], [0059] * * figure 6 *	1-15	INV. A61B17/04 A61B17/06 A61B90/00
X	US 2011/046667 A1 (CULLIGAN PATRICK JOHN [US] ET AL) 24 February 2011 (2011-02-24) * figure 20 * * paragraph [0088] *	1,3-5, 10-13,15	
X	US 4 243 140 A (THRUN ROBERT H) 6 January 1981 (1981-01-06) * figures 1,6 *	1,3-5, 12,15	
X	US 4 586 614 A (GER RALPH [US]) 6 May 1986 (1986-05-06) * figures 1,5 *	1	
			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 5 December 2017	Examiner Erbel, Stephan
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			

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
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05-12-2017

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专利名称(译)	用于提高手术室效率的系统和方法		
公开(公告)号	EP3134009A4	公开(公告)日	2018-01-17
申请号	EP2015782255	申请日	2015-04-24
[标]申请(专利权)人(译)	夏普射流		
申请(专利权)人(译)	夏普射流技术有限责任公司		
当前申请(专利权)人(译)	夏普射流技术有限责任公司		
[标]发明人	GOREK JOSEF E TRAUNER KENNETH B RIMER DOUGLAS G		
发明人	GOREK, JOSEF, E. TRAUNER, KENNETH, B. RIMER, DOUGLAS, G.		
IPC分类号	A61B17/04 A61B17/06 A61B90/00 A61B46/23		
CPC分类号	A45F5/00 A45F2005/008 A45F2200/0575 A61B17/0467 A61B17/06061 A61B17/06133 A61B17/06161 A61B42/00 A61B46/00 A61B46/23 A61B50/20 A61B50/3001 A61B50/362 A61B90/53 A61B90/92 A61B90/96 A61B90/98 A61B2017/00442 A61B2017/00477 A61B2017/00876 A61B2017/00902 A61B2017/06142 A61B2017/06147 A61B2090/0804 A61B2090/0805 A61B2090/0807 A61B2090/571 Y10T29/49828 A61B17/0469 B65D25/54 B65D83/02 A61B17/06114 A61B90/50 A61B90/70 A61B2050/3002 A61B2050/3015 A61B2090/0811 A61F2002/3071		
审查员(译)	ERBEL , STEPHAN		
优先权	61/984543 2014-04-25 US 61/984576 2014-04-25 US 62/105540 2015-01-20 US 62/128856 2015-03-05 US		
其他公开文献	EP3134009A1		
外部链接	Espacenet		

摘要(译)

用于提高手术室中的安全性和效率的系统，装置和方法包括提供缝合包装，该缝合包装容纳新的缝合针和用于存储用过的针的针容器。该装置可以安全地佩戴，以便外科医生在近手术区域中自我分配新的缝合针，并将使用过的针头固定在位于其末端，手术器械上或手术单上的针头陷阱或针头保持器中。该装置可以在使用期间和从手术区域移除之后提供自动和/或简化的针计数。该装置可以被配置用于符合人体工程学和有效使用，以便最小化外科医生分配和固定针的动作和运动。

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DOCUMENTS CONSIDERED TO BE RELEVANT				CLASSIFICATION OF THE APPLICATION (IPC)	
Category	Citation of document with indication, where appropriate, of relevant passages			Relevant to claims	
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X	US 2014/046667 A1 (CULLINAN PATRICK JOHN [US] ET AL) 24 February 2011 (2011-02-24) = Figure 20 = = para 0049 [0068] =			1,3-5, 10-13,15	
X	US 4 243 140 A (THURRO ROBERT H) 6 January 1981 (1981-01-06) = Figures 1, 6 =			1,3-5, 12,15	
X	US 4 586 614 A (GER BALPH [US]) 6 May 1986 (1986-05-06) = Figures 1, 6 =			1	
				TECHNICAL FIELD OF THE INVENTION (IPC)	
				A61B	
The supplementary search report has been based on the last set of claims valid as drawn at the start of the search.					
Date of search March		Date of completion of the search 5 December 2017		Examiner Erbel, Stephan	
CATEGORY OF CITED DOCUMENTS					
particularly relevant to claims drawn particularly to the prior art		NOT RELEVANT TO THE CLAIMS			
particularly relevant to claims drawn particularly to the prior art with another		A: scientific or technical publications			
particularly relevant to claims drawn particularly to the prior art with another		B: scientific patent documents, but published on, or after the filing date of the application			
particularly relevant to claims drawn particularly to the prior art with another		C: documents of the same patent family, corresponding			