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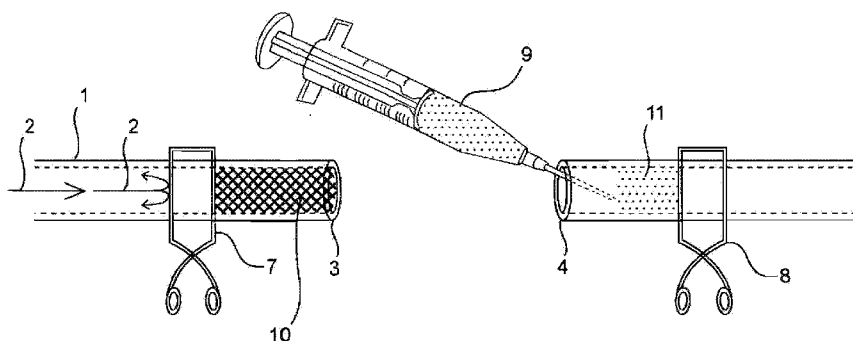
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(54) **Title:** COMPOSITIONS AND METHODS FOR JOINING NON-CONJOINED LUMENS

**FIG. 3**



(57) **Abstract:** Disclosed are compositions, methods, and kits for joining together non-conjoined lumens in a patient's body including vascular lumens. More particularly, in various aspects, this invention provides compositions, methods, and kits for joining such non-conjoined lumens, including small lumens typically requiring microsurgical technique.

# INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. A61L27/14 A61L27/26

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61L A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96/33673 A1 (KHOURI BIOMEDICAL RES INC [US]) 31 October 1996 (1996-10-31) claims 1-23	1-73
A	EP 0 327 325 A1 (SKEIE EINAR [DK]; BAR SHALOM DANIEL [DK]) 9 August 1989 (1989-08-09) claims 1-14	1-73
A	US 4 770 176 A (MCGREEVY FRANCIS T [US] ET AL) 13 September 1988 (1988-09-13) claims 1-16	1-73
X,P	WO 2008/073938 A2 (PLUROMED INC [US]; LAHEY CLINIC INC [US]; VOGEL JEAN-MARIE [US]; WILKI) 19 June 2008 (2008-06-19) pages 7-8; claims 1-65; figure 3 ----- -/-	27-29, 36,63-64

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	<p>WO 2007/149999 A2 (UNIV LELAND STANFORD JUNIOR [US]; GURTNER GEOFFREY C [US]; FULLER GERA) 27 December 2007 (2007-12-27) claims 1-135</p> <p>-----</p>	1-73

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9633673	A1	31-10-1996	AU 5716096 A US 5653744 A	18-11-1996 05-08-1997
EP 0327325	A1	09-08-1989	AT 112669 T AU 2899689 A CA 1327871 C DE 68918720 D1 DE 68918720 T2 ES 2065985 T3 FI 890402 A IE 65858 B1 JP 1308540 A JP 2656969 B2 NO 890379 A NZ 227797 A ZA 8900546 A	15-10-1994 03-08-1989 22-03-1994 17-11-1994 02-03-1995 01-03-1995 02-08-1989 29-11-1995 13-12-1989 24-09-1997 02-08-1989 29-01-1992 25-10-1989
US 4770176	A	13-09-1988	NONE	
WO 2008073938	A2	19-06-2008	EP 2094169 A1 US 2008181952 A1	02-09-2009 31-07-2008
WO 2007149999	A2	27-12-2007	AU 2007260924 A1 CA 2656179 A1 EP 2034906 A2 JP 2009540965 T US 2008045985 A1	27-12-2007 27-12-2007 18-03-2009 26-11-2009 21-02-2008