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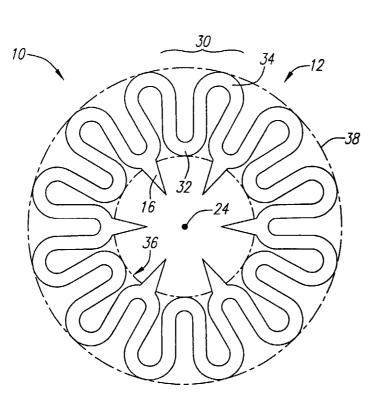
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[Continued on next page]

(54) Title: CLOSURE DEVICE AND METHODS FOR MAKING AND USING THEM



(57) Abstract: A clip for engaging tissue includes a generally annular-shaped body defining a plane and disposed about a central axis extending normal to the plane. The body includes alternating inner and outer curved regions, defining a zigzag pattern about a periphery of the clip. The body is biased towards a planar configuration lying in the plane and deflectable towards a transverse configuration extending out of the plane. Tines extend from the inner curved regions, the tines being oriented towards the central axis in the planar configuration, and parallel to the central axis in the transverse configuration. The tines may include primary tines and secondary tines that are shorter than the primary tines. The primary tines may be disposed on opposing inner curved regions and oriented towards one another such that they overlap in the planar configuration.

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(88) Date of publication of the international search report: 8 January 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

PCT/US 03/04906

		'	01/03 03/04900		
	FICATION OF SUBJECT MATTER A61B17/064				
According to	o International Patent Classification (IPC) or to both national cl	lassification and IPC			
B. FIELDS	SEARCHED				
Minimum do IPC 7	ocumentation searched (classification system followed by class $A61B$	silication symbols)			
Documentati	ion searched other than minimum documentation to the exten	t that such documents are include	od in the fields searched		
Electronic da	ata base consulted during the international search (name of c	data base and, where practical, se	earch terms used)		
EPO-In1	ternal				
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of	the relevant passages	Relevant to claim No.		
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Furth	ner documents are listed in the continuation of box C.	Y Patent family me	mbers are listed in annex.		
'A" docume conside	tegories of cited documents: ent defining the general state of the art which is not lered to be of particular relevance	or priority date and ne	ned after the international filing date of in conflict with the application but he principle or theory underlying the		
E earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another		cannot be considered involve an inventive s	 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention 		
O* docume other n	n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or neans ent published prior to the international, filing date but	cannot be considered document is combined	d to involve an inventive step when the ed with one or more other such docu- ation being obvious to a person skilled		
later th	nan the priority date claimed	*&* document member of			
	actual completion of the international search October 2003	22/10/200	international search report		
	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer			
	NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Hamann, d	J		

Interponal application No. PCT/US 03/04906

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. χ	Claims Nos.: 32–35 because they relate to subject matter not required to be searched by this Authority, namely:
	Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery
2. X	Claims Nos.: 14–31 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
. 3;	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
	restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Doma-1	con Protest The additional search fees were accompanied by the applicant's protest.
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	No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 14-31

In view of the large number and also the wording of the claims presently on file, which render it difficult, if not impossible, to determine the matter for which protection is sought, the present application fails to comply with the clarity and conciseness requirements of Article 6 PCT (see also Rule 6.1(a) PCT) to such an extent that a meaningful search is impossible. Consequently, the search has been carried out for one part of the application which, if it is considered separately from the other parts, does appear to be clear (and concise), namely claims 1-13 and 36-44.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

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