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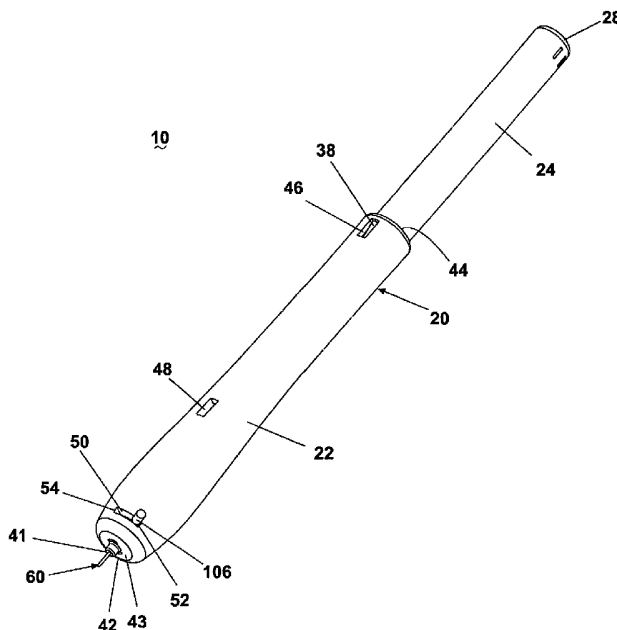
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GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: APPARATUS FOR IMPLANTING A PRELOADED LOCALIZATION WIRE



(57) Abstract: An apparatus (10) for percutaneously implanting a localization wire (80) into a tissue mass (150) comprises a pre-  
loaded localization wire (80) with a distal end (82) and a cannula (60) that can retract relative to the localization wire (80) to expose  
the distal end (82) to the tissue mass (150). A method for implanting a localization wire (80) includes inserting a cannula (60) with  
a preloaded localization wire (80) into a tissue mass (150) and retracting the cannula (60) relative to the localization wire (80) to  
expose a portion of the localization wire (80) to the tissue mass (150).

WO 2004/045480 A3



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# INTERNATIONAL SEARCH REPORT

International Application No  
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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 A61F13/20 A61N1/00 A61B17/34 A61B10/00 A61N5/06

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)  
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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, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 090 063 A (REDMOND RUSSELL J ET AL) 18 July 2000 (2000-07-18)  column 9, line 7 - line 29; claim 1; figure 4A	1, 2, 14, 15, 18-22, 25, 30, 32-38, 42, 47, 55-59
Y	FR 2 776 165 A (ORDICAM) 24 September 1999 (1999-09-24)  page 3, line 19 -page 5, line 27; claim 1; figure 1	1, 2, 14, 36, 38, 42, 55

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "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 citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
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- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "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 cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

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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.
Y	EP 0 415 504 A (NEDAP NV) 6 March 1991 (1991-03-06)  column 2, line 55 -column 4, line 6; claim 1; figure 1  ---	1,2,14, 36,38, 42,55
A	GB 786 850 A (FOUNDATION LAB INC) 27 November 1957 (1957-11-27) the whole document  ---	1-59
A	US 4 627 420 A (KATZ HARRY R) 9 December 1986 (1986-12-09) abstract; figure 1  ---	1-59
A	EP 0 937 443 A (ACRITEC GBMH) 25 August 1999 (1999-08-25) abstract; claim 1  ---	1-59
X	US 4 799 495 A (HAWKINS JEFFREY S ET AL) 24 January 1989 (1989-01-24) column 5, line 28 -column 6, line 20; claim 1; figure 5  ---	76-82
X	US 6 135 993 A (HUSSMAN KARL L) 24 October 2000 (2000-10-24) column 4, line 61 -column 5, line 2; claim 1; figure 10  ---	76-82
X	US 2002/019595 A1 (TEKULVE KURT J ET AL) 14 February 2002 (2002-02-14) paragraphs '0029!,'0040!; claim 1; figure 6  ---	76-82
A	EP 0 393 972 A (ELLIS IAN OGILVIE ;URIE ROBERT GRAHAM (GB)) 24 October 1990 (1990-10-24) column 1, line 30-41; figure 2  -----	76-82

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 03/36486

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: 60-75  
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.  Claims Nos.:  
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:
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 International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

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.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-35,36-59

Claims 1-35 and 36-59 (group 1) disclose an apparatus for percutaneously implanting a localization wire comprising :  
a cannula defining a lumen and having an insertion tip,  
a localization wire disposed within the lumen,  
an actuator operable between a charged condition and a discharged condition to effect the movement of the cannula, wherein the cannula is inserted into the mass tissue and the actuator is placed in the discharged condition to affect relative movement of the cannula and the localization wire and expose the distal end of the localization wire to the tissue.

2. Claims: 76-82

Claims 76-82 (group 2) disclose a localization wire comprising :  
a shaft defining a longitudinal axis, and  
first and second anchors extending from the shaft in opposing relationship

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/36486

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