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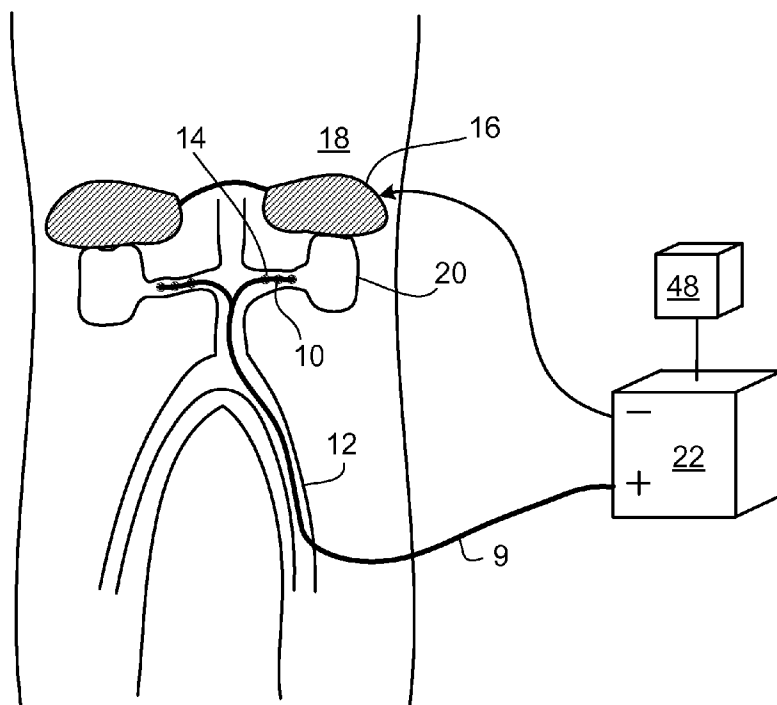
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[Continued on next page]

(54) Title: CONTROL OF ARTERIAL SMOOTH MUSCLE TONE



(57) Abstract: An apparatus for locally controlling smooth muscle tone includes a first electrode for insertion into an artery; a barrier for preventing the first electrode from contacting an arterial wall; a second electrode; a power supply; and a controller for coupling the power supply to the electrodes. The controller is configured to cause the electrode to maintain a waveform for controlling polarization of smooth muscle tone.

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## INTERNATIONAL SEARCH REPORT

International application No

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A. CLASSIFICATION OF SUBJECT MATTER  
 INV. A61N1/05 A61N1/36

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)  
 A61N

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

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 2005/171575 A1 (DEV NAGENDU B [US] ET AL) 4 August 2005 (2005-08-04) paragraphs [0023], [0031], [0035], [0042] - [0052]; figures 1,3	1,3-5,9, 10 11-13
Y	US 2003/055465 A1 (BEN-HAIM SHLOMO [IL] ET AL) 20 March 2003 (2003-03-20) paragraphs [0285] - [0289]; figure 10	11-13
P,X	US 2006/142801 A1 (DEMARAIS DENISE [US] ET AL) 29 June 2006 (2006-06-29) paragraphs [0015], [0031] - [0040]; figures 4,5	1,3,5-10
A	US 2003/187340 A1 (KENKNIGHT BRUCE H [US] ET AL) 2 October 2003 (2003-10-02) paragraphs [0030], [0031]; figure 1	6
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Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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Name and mailing address of the ISA/

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## INTERNATIONAL SEARCH REPORT

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G(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98/42403 A (SULZER INTERMEDICS INC [US]) 1 October 1998 (1998-10-01) page 4, lines 5-23; figure 3 -----	6

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2007/067989

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 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.: 14-27  
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 and therapy
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 No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International 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 allsearchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
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 and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No  
PCT/US2007/067989

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 2003055465 A1	20-03-2003	US 2003055466 A1 US 2003055467 A1	20-03-2003 20-03-2003
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