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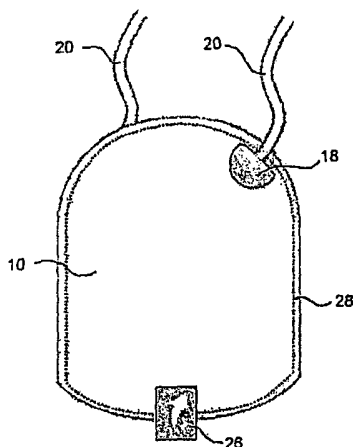
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(54) Title: SEALED MEDICAL ELECTRODE PACKAGE



(57) Abstract: A sealed medical electrode package comprises first and second electrodes each comprising a conductive layer (14) disposed on one major surface of a flexible nonconductive backing sheet (10). The electrodes are disposed with their conductive layers (14) face-to-face and their backing sheets separably sealed together around their peripheral edges so that the backing sheets form a substantially gas-impermeable enclosure containing the conductive layers. In an alternative embodiment (Figure 6) a respective electrical contact extends through each backing sheet into electrical contact with the respective conductive layer, and a substantially gas-impermeable packaging material encloses the electrodes. The packaging material has a respective aperture exposing each electrical contact, the periphery of each aperture being sealed to the backing sheet around the respective contact.

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INTERNATIONAL SEARCH REPORT

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<p>A. CLASSIFICATION OF SUBJECT MATTER B65D17/28 B65D65/14 A61B5/0408 A61N1/04</p>		
<p>According to International Patent Classification (IPC) or to both national classification and IPC</p>		
<p>B. FIELDS SEARCHED</p>		
<p>Minimum documentation searched (classification system followed by classification symbols) B65D A61B A61N</p>		
<p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p>		
<p>Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ</p>		
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/017743 A1 (PICARDO ANTHONY G ET AL) 23 January 2003 (2003-01-23) paragraphs '0002!', '0007!; figures 5,6	6-8, 10
Y		9
A		1-5
X	US 5 984 102 A (TAY ET AL) 16 November 1999 (1999-11-16) column 5, line 66 - column 6, line 14; figures 13,14	6-8, 10
Y		9
A		1-5
Y	US 5 462 157 A (FREEMAN ET AL) 31 October 1995 (1995-10-31) column 2, lines 39-43	9
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<p><input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.</p>		
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<p>*A* document defining the general state of the art which is not considered to be of particular relevance</p>		<p>*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</p> <p>*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</p> <p>*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.</p> <p>*&* document member of the same patent family</p>
<p>*E* earlier document but published on or after the international filing date</p>		
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<p>*P* document published prior to the international filing date but later than the priority date claimed</p>		
<p>Date of the actual completion of the international search</p>		
<p>17 February 2006</p>		<p>Date of mailing of the international search report</p> <p>27/02/2006</p>
<p>Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016</p>		<p>Authorized officer</p> <p>Aronsson, F</p>

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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	US 6 048 640 A (WALTERS ET AL) 11 April 2000 (2000-04-11) column 4, lines 5-10 -----	9

INTERNATIONAL SEARCH REPORT

information on patent family members

Intern	il application No
PCT/IB2005/003692	

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003017743	A1	23-01-2003	NONE
US 5984102	A	16-11-1999	NONE
US 5462157	A	31-10-1995	DE 69430205 D1 25-04-2002
			DE 69430205 T2 07-11-2002
			EP 0724533 A1 07-08-1996
			JP 3558297 B2 25-08-2004
			JP 9504215 T 28-04-1997
			WO 9511843 A1 04-05-1995
US 6048640	A	11-04-2000	NONE