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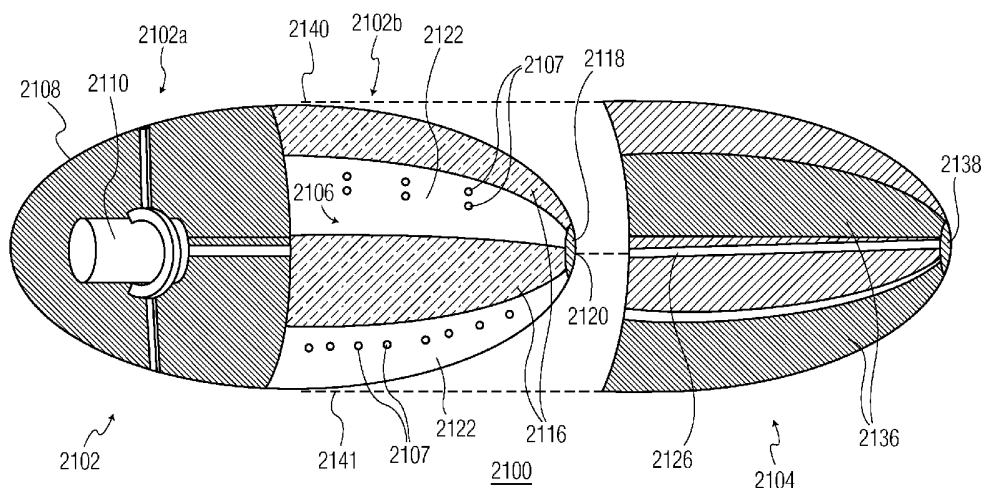
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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

(54) Title: ELECTRONICALLY CONTROLLED CAPSULE FOR RELEASING RADIATION



(57) Abstract: A method and system (2100) are provided for dispensing radiation to a patient from a location internal to the patient. The system (2100) includes a radioactive assembly (2106) having a radioactive material (2107); a first radiation resistant assembly (2102) having at least one first radiation resistant panel (2116), wherein at least one gap (2122) is formed in the first radiation resistant assembly (2102) for allowing radiation to pass there through to the ambient environment of the capsule; an actuator; and a second radiation resistant assembly (2104) having at least one movable second radiation resistant panel (2136) operationally coupled to the actuator for controllably moving the second radiation resistant assembly (2104) for positioning a respective second panel to a position with respect to a respective gap for selectively covering at least a portion of the respective gap for impeding passage of radiation through the respective gap to the ambient environment of the capsule; and control circuitry (906) for controlling activation of the actuator.



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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

International application No

PCT/IB2006/050156

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61N5/10 A61M31/00

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 A61M A61K

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	US 2001/051766 A1 (GAZDZINSKI ROBERT F) 13 December 2001 (2001-12-13) paragraph [0237] - paragraph [0267] -----	1-19,24
X	US 2003/088146 A1 (SLATER CHARLES R ET AL) 8 May 2003 (2003-05-08) paragraph [0046] - paragraph [0052]; figures 9-15 paragraph [0016]; claim 10 -----	1-19,24
Y	US 5 318 557 A (GROSS ET AL) 7 June 1994 (1994-06-07) the whole document -----	1-19,24
Y	US 2002/103417 A1 (GAZDZINSKI ROBERT F) 1 August 2002 (2002-08-01) the whole document -----	1-19,24
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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
- *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
- *P* document published prior to the international filing date but later than the priority date claimed

- *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

Date of the actual completion of the international search

7 August 2006

Date of mailing of the international search report

17/08/2006

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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	DE 103 08 528 A1 (DUERSCHINGER GUENTER [DE]) 9 September 2004 (2004-09-09) the whole document -----	1-19,24
A	US 6 245 057 B1 (SIEBEN ULRICH ET AL) 12 June 2001 (2001-06-12) -----	
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2006/050156

Box 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.: 20-23
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 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 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 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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2006/050156

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