Title: ABSORBABLE BRACHYTHERAPY AND CHEMOTHERAPY DELIVERY DEVICES AND METHODS

Abstract: Combination radiation delivery and chemotherapy devices comprise bioabsorbable structures with radionuclides and chemotherapeutic agents immobilized on said structures. The bioabsorbable structures have a predefined persistence period which is usually substantially greater than the half-life of the radionuclide, thus assuring that the radionuclides remain localized and sequestered at a desired target site while significant radioactivity remains. The radiation delivery and chemotherapy devices are suitable for a wide variety of medical purposes, being particularly suitable for the treatment of solid tumors by injection or open surgical introduction of the devices at a target site. Kits comprising the devices together with instructions for use are also provided.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) :A61K 9/22
US CL :604/381.1
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)
U.S. : 604/381.1

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 practicable, search terms used)
DIALOG, WEST:
search terms: brachytherapy, implant, radioactive, bioabsorbable

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X, Y, P</td>
<td>WO 97/46276 A1 (W.L. GORE &amp; ASSOCIATES, INC.) 11 December 1997, see entire document, especially pages 5-9, and claims 1-3.</td>
<td>10,15,16 18,32,33</td>
</tr>
<tr>
<td>X, P</td>
<td>WO 99/21615 A1 (RADIOMED CORPORATION) 06 May 1999, see entire document, especially pages 2,4,8,9,1920,21.</td>
<td>1 0 , 1 3 , 1 5 , 1 9 , 2 2 , 2 4 , 2 8 ,29,33 11,12,26</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C. See patent family annex.

Date of the actual completion of the international search 09 MARCH 2000
Date of mailing of the international search report 06 DEC 2000

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks
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Form PCT/ISA/210 (second sheet)(July 1992)
### Box I  Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

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

1. □ Claims Nos.:
   - because they relate to subject matter not required to be searched by this Authority, namely:

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.: 5-9
   - 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:

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.: