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[Continued on next page]

(54) Title: BRACHYTHERAPY SOURCE ASSEMBLY

Figure 1

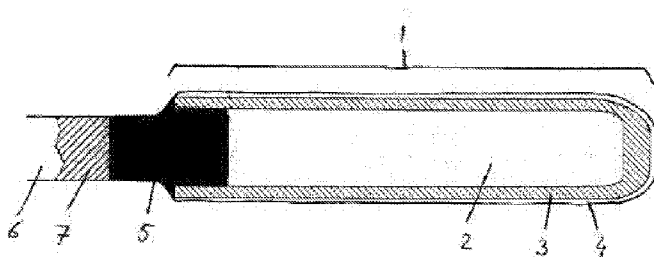
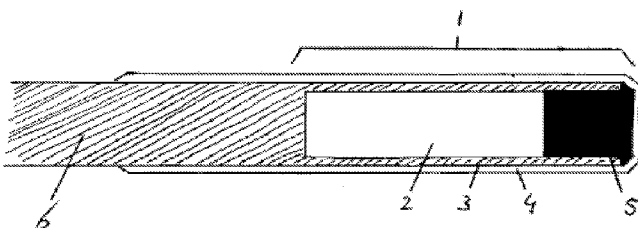


Figure 2



(57) Abstract: The invention is directed to a brachytherapy source assembly, to a kit of parts, to a method for preparing a brachytherapy source assembly, to uses of a specific coating, and to a brachytherapy treatment. The brachytherapy source assembly of the invention comprises a push/pull wire and at the distal end thereof a capsule suitable for brachytherapy, wherein said capsule comprises a chamber for holding one or more radioactive sources, said chamber being defined by a wall, and wherein at least part of the exterior surface of the wall of the capsule comprises a coating, the coating comprising one or more selected from TiN, TiCN, TiCrN, CrN, TiAlCrN, DLC, and MoS₂, wherein said capsule is attached to the push/pull wire or wherein said capsule is comprised in the push/pull wire.



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INTERNATIONAL SEARCH REPORT

International application No
PCT/NL2012/050386

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61N5/10
ADD.

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 practicable, search terms used)

EP0-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 099 457 A (GOOD ROGER [US]) 8 August 2000 (2000-08-08) column 45, line 12 - line 27; figure 4 column 65, line 1 - line 6; figures 8,9 column 2, line 1 - line 25 column 42, line 34 - line 44 column 57, line 8 - line 65; figure 7 -----	1-10, 12-19
X	US 6 520 923 B1 (JALISI MARC MEHRZAD [US]) 18 February 2003 (2003-02-18)	1,3-6, 15-19
Y	column 5, line 17 - line 20 ----- -/--	11



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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"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

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"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

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"&" document member of the same patent family

Date of the actual completion of the international search

23 November 2012

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Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
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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 1 346 751 A2 (CORDIS CORP [US]) 24 September 2003 (2003-09-24) paragraph [0013] paragraph [0018] - paragraph [0019] paragraph [0017]; figures 1,2 paragraph [0001] paragraph [0014] paragraph [0018]	11
A	----- US 6 569 076 B1 (LARSEN CHARLES E [US] ET AL) 27 May 2003 (2003-05-27) column 5, line 12 - line 30	1,13
A	----- US 5 160 318 A (SHULER DONALD K [US]) 3 November 1992 (1992-11-03) column 5, line 66 - column 6, line 61	1,13
A	----- US 5 282 781 A (LIPRIE SAM F [US]) 1 February 1994 (1994-02-01) column 18, line 9 - line 42 -----	1,13

INTERNATIONAL SEARCH REPORT

International application No.
PCT/NL2012/050386

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.: 20, 21
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
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 all searchable 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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims Nos.: 20, 21

The method claims 20-21 refer to Brachy-treatment for tumour disease, which implicitly implies treatment on animals or humans. Thus, according to Rule 39.1 (iv) PCT, no search is required to be carried out on claims 1-10. Further, according to Art 43bis.1 PCT and Rule 67.1 PCT, no international preliminary examination is required to be carried out on these claims.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/NL2012/050386

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