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EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,  
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NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG,  
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(54) Title: DRUG ELUTING MEDICAL DEVICES HAVING POROUS LAYERS

(57) Abstract: In accordance with an aspect of the invention, implantable or insertable medical devices are provided that comprise (a) a substrate and (b) a porous layer comprising close packed spherical pores disposed over the substrate. The porous layer may also comprise a therapeutic agent. In another aspect, the present invention provides methods of forming implantable or insertable medical devices. These methods comprise forming a predecessor structure that comprises (i) a substrate over which is disposed (ii) an assembly of microspheres. This assembly of microspheres is then used as a template for the formation of a porous layer, which may be subsequently loaded with a therapeutic agent.



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## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

INV. A61L31/02 A61L31/08 A61L31/10 A61L31/14 A61L31/16

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)

A61L

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, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	EP 1 764 116 A (DEBIOTECH SA [CH]) 21 March 2007 (2007-03-21)	1-33
Y	the whole document	3,4,16, 17
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P,X	WO 2007/130786 A (MEDTRONIC VASCULAR, INC) 15 November 2007 (2007-11-15) paragraph [0031] claim 1	1,5-14
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☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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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	SUNG OH CHO ET AL.: "A novel route to three-dimensionally ordered macroporous polymers by electron irradiation of polymer colloids" ADVANCED MATERIALS, vol. 17, no. 1, 2005, XP002551201 cited in the application the whole document	3,4,16, 17
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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