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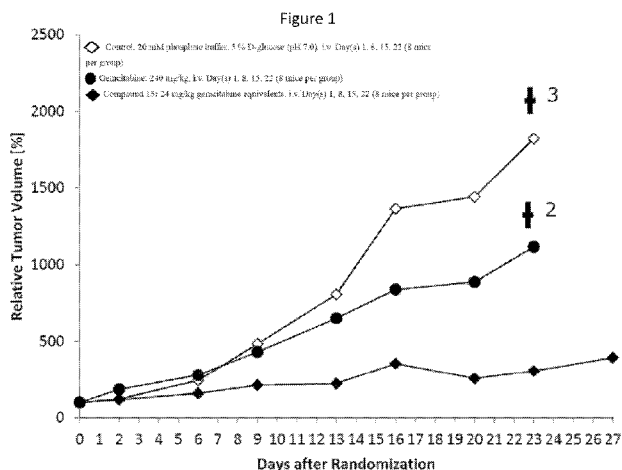
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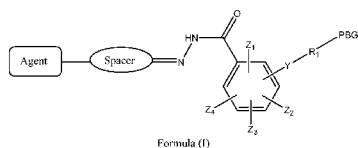
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[Continued on next page]

(54) Title: DELIVERY SYSTEMS FOR CONTROLLED DRUG RELEASE



(57) Abstract: The present invention provides a compound having the structure of Formula (I) or a pharmaceutically acceptable salt, hydrate, solvate, or isomer thereof, for the controlled delivery and release of Agent.



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- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

C07H 19/24 (2006.01) *C07H 19/10 (2006.01)* *C07D 519/04 (2006.01)* *C07K 5/027 (2006.01)* *C07K 7/02 (2006.01)*
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C07H 15/252 (2006.01) *A61P 29/00 (2006.01)*

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)

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)

CAPLUS and REGISTRY: substructure search based on a generalisation of Formula (I) but incorporating the embodiments defined in claim 25

CAPLUS, MEDLINE, WPIDS, BIOSIS, BIOTECHABS: Keyword search such as ?BENZO? (W) HYDRAZ?, DRUG? OR PHARMACEUT? OR AGENT?, (DELIVER? OR CONJUGAT)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Documents are listed in the continuation of Box C		



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	"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	
"E" earlier application or patent but published on or after the international filing date	"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	
"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)	"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	
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search
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INTERNATIONAL SEARCH REPORT		International application No.
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		PCT/US2016/038223
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	US 4125704 A (HENRY et al.) 14 November 1978 abstract, examples	1-66
A	US 2012/0195832 A1 (KRATZ) 02 August 2012 Examples 1, 4, claims 20-23	1-66
A	WO 2013/124068 A1 (KTB TUMORFORSCHUNGSGESELLSCHAFT MBH) 29 August 2013 figure 1A, table 1	1-66
A	KRATZ, F. et al. "Prodrug strategies in anticancer chemotherapy", ChemMedChem, 2008, 3, 20-53 page 38, Figure 21, Doxo-EMCH; page 42, figure 26; page 43, Figure 28; page 44, Figure 29	1-66
A	DAO, K-L et al. "Design, synthesis, and initial biological evaluation of a steroidal anti-estrogen-doxorubicin bioconjugate for targeting estrogen receptor-positive breast cancer cells", Bioconjugate Chemistry, 2012, 23, 785-795 abstract, compound 14, page 787, Scheme 1, page 790, LHC, preparation of conjugate 14	1-66
A	REA, D. W. et al. "Site-specifically radioiodinated antibody for targeting tumors", Cancer Research, 1990, 50, supplementary pages 857s-861s B72.3-0303, compound IV, page 858s, "Confirmation of Site Specific Labelling", Figure 1, page 861s, "Discussion", second paragraph	1-66
A	PONTA, A. et al. "Tumor-prefential sustained drug release enhances antitumor activity of block copolymer micelles", Journal of Drug targeting, 2014, 22(7), 619-628 page 620, Figure 2, step 2, structure, page 621, "Micelle Preparation"	1-66
A	US 8703724 B2 (KRATZ) 22 April 2014 col 2-col 6, col 1, lines 12-19, col 5, line 27 to col 6, line 32	1-66
A	US 4966999 A (COUGHLIN et al.) 30 October 1990 col 12, 16	1-66

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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This Annex lists known patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2016/038223

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End of Annex

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