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**WO 03/018018 A3**

(54) Title: VINORELBINE COMPOSITIONS AND METHODS OF USE

(57) Abstract: The present invention is for novel compositions and methods for treating cancer, particularly, for treating cancer in mammals and more particularly in humans. The therapeutic compositions of the present invention include liposome entrapped vinorelbine in which the liposome can contain any of a variety of neutral or charged liposome-forming compounds and cardiolipin. The liposomes of the present invention can be either multilamellar vesicles or unilamellar vesicles, as desired.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/26907

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 A61K31/475 A61P35/00 A61K9/127 A61K45/00 //(A61K45/00, 31:475)

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)  
 IPC 7 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, WPI Data, EMBASE, BIOSIS, CHEM ABS Data, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 952 408 A (RAHMAN AQUILUR) 28 August 1990 (1990-08-28) column 2, line 65 -column 2, line 69; claims 1-11 column 1, line 32,33 column 1, line 66-68 column 4, paragraphs 2,3 column 6, line 41-43 ---	1-32,37
Y	US 5 424 073 A (RAHMAN AQUILUR ET AL) 13 June 1995 (1995-06-13) column 4, paragraph 5 -column 5, paragraph 1; claims 1-17; examples 1-4 column 5, paragraph 2 column 3, line 38-61 column 2, line 54 - line 68 ---	1-32,37
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Further documents are listed in the continuation of box C.  Patent family members are listed in 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 document 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	

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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer <b>Ansaldo, M</b>
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## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 02/26907

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00 01366 A (NEOPHARM ;RAHMAN AQUILAR (US)) 13 January 2000 (2000-01-13) the whole document -----	1-27,37
Y	WATERHOUSE D N ET AL: "A comparison of liposomal formulations of doxorubicin with drug administered in free form: changing toxicity profiles." DRUG SAFETY: AN INTERNATIONAL JOURNAL OF MEDICAL TOXICOLOGY AND DRUG EXPERIENCE. NEW ZEALAND 2001, vol. 24, no. 12, 2001, pages 903-920, XP009004841 ISSN: 0114-5916 page 911, column 1, paragraph 3; table III page 913, column 2, paragraph 3 -----	1-27,37
P,Y	WO 02 32400 A (AHMAD IMRAN ;NEOPHARM INC (US); RAHMAN AQUILUR (US)) 25 April 2002 (2002-04-25) the whole document -----	1-27,37

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 02/26907

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 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.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 1-12, 37 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.
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 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.:

### 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/US 02/26907

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