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(54) Title: PULMONARY DELIVERY IN TREATING DISORDERS OF THE CENTRAL NERVOUS SYSTEM

(57) Abstract: A method for treating a disorder of the central nervous system includes administering to the respiratory tract of a patient a drug which is delivered to the pulmonary system, for instance to the alveoli or the deep lung. Particles that include the drug can be employed. Preferred particles have a tap density of less than about 0.4 g/cm³. In addition to the medicament, the particles can include other materials such as, for example, phospholipids, amino acids, combinations thereof and others. The drug is administered at a dose which is at least about two-fold less than the dose required by oral administration.

INTERNATIONAL SEARCH REPORT

Intel Inal Application No

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER A61K9/00						
According to	o International Patent Classification (IPC) or to both national classifica	ation and IPC					
B. FIELDS	SEARCHED						
Minimum do IPC 7	cumentation searched (classification system followed by classification $A61K$	on symbols)					
Documental	ion searched other than minimum documentation to the extent that s	uch documents are included in the fields sea	arched				
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) WPI Data, PAJ, EPO-Internal, CHEM ABS Data							
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the rela	Relevant to claim No.					
Х	WO 98 31346 A (MASSACHUSSETS INST TECHNOLOGY) 23 July 1998 (1998-07 claims 1-4,11,13 page 22, line 13 - line 26		1,32-37, 50-58				
P,A	WO 00 72827 A (ACUSPHERE) 7 December 2000 (2000-12-07) the whole document		1–58				
E	WO 01 95874 A (ADVANCED INHALATIC RESEARCH) 20 December 2001 (2001-		1-10,13, 15, 18-31,41				
	tables 1,3,4,11,18,23,24 page 46; examples 5,6	,					
Furth	ner documents are listed in the continuation of box C.	Patent family members are listed in	n annex.				
° Special ca	legories of cited documents:	"T" later document published after the Inter	national filing date				
consid	nt defining the general state of the art which is not ered to be of particular relevance	or priority date and not in conflict with t cited to understand the principle or the invention	he application but				
filing d	ale	"X" document of particular relevance; the cla cannot be considered novel or cannot it	pe considered to				
which i	nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another nor other special reason (as specified)	involve an inventive step when the doc "Y" document of particular relevance; the cla cannot be considered to involve an invention	ument is taken alone aimed invention				
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	3 June 2002	Date of mailing of the international sear	сп героп				
Name and n	nailing address of the ISA	Authorized officer					
	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	Ventura Amat, A					

international application No. PCT/US 01/29311

INTERNATIONAL SEARCH REPORT

Box I	vations where certain claims were found unsearchable (Continuation of item 1 of first sheet)				
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. χ	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
	Although claims 1-58 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 compound/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:				
з. 🗌	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 Inte	ernational 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.:				
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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

Inte nal Application No
PCT/US 01/29311

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