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28 June 2012

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(54) Title: CAPSULES OF ACTIVE PHARMACEUTICAL INGREDIENTS AND POLYUNSATURATED FATTY ACIDS FOR THE TREATMENT OF PROSTATE DISEASES

(57) Abstract: Pharmaceutical composition in capsule form which contains polyunsaturated fatty acids (PUFA) and active pharmaceutical ingredients for the treatment and/or prevention of prostate diseases and/or hyperandrogenic disorders.

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2011/003737

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K31/00 A61K31/167 A61K31/18 A61K31/277 A61K31/517
A61K31/57 A61K31/7048 A61K9/48 A61K9/50 A61K38/09
A61K47/12 A61K9/16 A61P5/26 A61P35/00

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)
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, BIOSIS, CHEM ABS Data, EMBASE, 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	EP 1 352 648 A1 (IBSA INST BIOCHIMIQUE SA [CH]) 15 October 2003 (2003-10-15) example 1 paragraphs [0006] - [0013] -----	1,3-7, 9-11, 18-21, 23,24,26
Y	CN 1 765 363 A (WAN LIUYI [CN]) 3 May 2006 (2006-05-03) examples 4-5 -----	1-12, 18-27

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[X] Further documents are listed in the continuation of Box C.

[X] 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

"E" earlier document but published on or after the international filing date

"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)

"O" document referring to an oral disclosure, use, exhibition or other means

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"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

"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

"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.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
23 April 2012	03/05/2012

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Madalinska, K

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/180352 A1 (PATEL MAHESH V [US] ET AL) 25 September 2003 (2003-09-25) abstract paragraphs [0015] - [0018] paragraphs [0066] - [0067], [0106] - [0107], [0229] - [0230], [0350] paragraphs [0064], [0076], [0089], [0109]	1-12,14, 17-27
A	WO 01/28566 A1 (INST HELMAPROST SL [ES]; RUFFLES GRAHAM KEITH [GB]; LOPEZ MARCIAL LOPE) 26 April 2001 (2001-04-26) claims	1-12,14, 17-27
Y	JP 9 077663 A (NIPPON KAYAKU KK) 25 March 1997 (1997-03-25) abstract Working example 10; paragraph [0040]	1-11,14, 18-27
Y	WO 98/02133 A1 (TIEN HENRY C [US]) 22 January 1998 (1998-01-22) abstract; example XI	1-11, 18-27
Y	WO 90/08537 A1 (ABBOTT LAB [US]) 9 August 1990 (1990-08-09) examples 1, 9	1-11, 17-27
A	WO 2004/084870 A1 (SIGMOID BIOTECHNOLOGIES LTD [IE]; MOODLEY JOEY [IE]; COULTER IVAN [IE]) 7 October 2004 (2004-10-07) claims 1, 8-11, 31, 59	1-12,14, 17-27
Y,P	WO 2011/060945 A2 (GP PHARM S A [ES]; DEFIANTE FARMACEUTICA S A [PT]; PARENTE DUENA ANTON) 26 May 2011 (2011-05-26) the whole document	1-12,14, 17-27
Y,P	WO 2011/060944 A2 (GP PHARM S A [ES]; DEFIANTE FARMACEUTICA S A [PT]; PARENTE DUENA ANTON) 26 May 2011 (2011-05-26) the whole document	1-12,14, 17-27
Y,P	WO 2011/060943 A1 (GP PHARM S A [ES]; DEFIANTE FARMACEUTICA S A [PT]; PARENTE DUENA ANTON) 26 May 2011 (2011-05-26) the whole document	1-12,14, 17-27

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2011/003737

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.:
because they relate to subject matter not required to be searched by this Authority, namely:

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:

see additional sheet

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.:

12, 14, 17(completely); 1-11, 18-27(partially)

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

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 12(completely); 1-11, 18-27(partially)

   Pharmaceutical capsule comprising polymeric microcapsules comprising alpha-adrenergic blockers suspended in oil containing polyunsaturated fatty acids

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2. claims: 13(completely); 1-11, 18-27(partially)

   Pharmaceutical capsule comprising polymeric microcapsules comprising 5-alpha-reductase inhibitors suspended in oil containing polyunsaturated fatty acids

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3. claims: 1-11, 18-27(all partially)

   Pharmaceutical capsule comprising polymeric microcapsules comprising mepartricin (antibiotic) suspended in oil containing polyunsaturated fatty acids

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4. claims: 1-11, 18-27(all partially)

   Pharmaceutical capsule comprising polymeric microcapsules comprising andarine (selective androgen receptor modulators) suspended in oil containing polyunsaturated fatty acids

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5. claims: 14(completely); 1-11, 18-27(partially)

   Pharmaceutical capsule comprising polymeric microcapsules comprising antiandrogens suspended in oil containing polyunsaturated fatty acids

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6. claims: 15(completely); 1-11, 18-27(partially)

   Pharmaceutical capsule comprising polymeric microcapsules comprising adrenal androgen synthesis inhibitor suspended in oil containing polyunsaturated fatty acids

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7. claims: 16(completely); 1-11, 18-27(partially)

   Pharmaceutical capsule comprising polymeric microcapsules comprising vitamin D analogue suspended in oil containing polyunsaturated fatty acids

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8. claims: 17(completely); 1-11, 18-27(partially)

   Pharmaceutical capsule comprising polymeric microcapsules

comprising LHRH analogues suspended in oil containing polyunsaturated fatty acids

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/EP2011/003737

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