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GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP,
KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT,
LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ,
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(54) Title: PHARMACEUTICAL COMPOSITIONS WITH MELTING POINT DEPRESSANT AGENTS AND METHOD OF MAKING SAME

(57) Abstract: The invention relates to the use of chemical fragrance ingredient to lower the melting point of active agents, thereby changing crystalline active agents into an amorphous state. The invention also relates to methods of enhancing the transdermal or transmucosal skin permeation or skin penetration of pharmacologically active agents to patients in need thereof. The compositions of the present invention present the additional benefits of being substantially alcohol-free and having a pleasant olfactory profile.



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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
 INV. **A61K9/00** **A61K9/06** **A61K31/00** **A61K47/14** **A61K47/34**
 A61K47/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. REIDS 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 , WPI Data, **EMBASE**, FSTA, **CHEM ABS Data**

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	<p>US 6 299 902 B1 (JUN H WON [US] ET AL) 9 October 2001 (2001-10-09) examples 1-6 claims 1-19</p> <p style="text-align: center;">-----</p>	<p>1,3-10, 12-21 11</p>
X	<p>KAPLUN-FRISCHOFF Y ET AL: "TESTOSTERONE SKIN PERMEATION ENHANCEMENT BY MENTHOL THROUGH FORMATION OF EUTECTIC WITH DRUG AND INTERACTION WITH SKIN LIPIDS" JOURNAL OF PHARMACEUTICAL SCIENCES, AMERICAN PHARMACEUTICAL ASSOCIATION. WASHINGTON, US, vol. 86, no. 12, December 1997 (1997-12), pages 1394-1399, XP001068689 ISSN: 0022-3549 page 1394, paragraphs EXPERIMENTAL, SECTION</p> <p style="text-align: center;">----- -/--</p>	<p>1,3-5,9, 12,14-21</p>

Further documents are listed in the continuation of Box C See patent family annex

* Special categories of cited documents

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"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</p> <p>"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</p> <p>"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</p> <p>"&" document member of the same patent family</p>
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Date of the actual completion of the international search	Date of mailing of the international search report
12 June 2007	29/06/2007

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 <p style="text-align: center;">Schüle, Stefanie</p>
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INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2006/008170

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/51283 A (GALEN CHEMICALS LTD [IE]; PASSMORE CLARE [GB]; GILLIGAN CLAIRE [GB]) 19 November 1998 (1998-11-19) cited in the application page 9, line 15 - page 10, line 14 page 14, line 25 - line 31 table 1 claims 1-18 -----	1,3-8, 10,12-21
X	WO 01/02015 A (UNIV GEORGIA [US]) 11 January 2001 (2001-01-11) cited in the application examples 1-21 claims 1-71 -----	1,3-10, 12-21
X	STOTT P W ET AL: "Transdermal delivery from eutectic systems: enhanced permeation of a model drug, ibuprofen" JOURNAL OF CONTROLLED RELEASE, ELSEVIER, AMSTERDAM, NL, vol. 50, no. 1-3, 2 January 1998 (1998-01-02), pages 297-308, XP004107662 ISSN: 0168-3659 page 299, paragraphs MATERIALS, METHODS - page 300 -----	1,3-5, 12, 15-17,21
X	WO 99/32072 A (MANN MORRIS A [US]) 1 July 1999 (1999-07-01) tables 12,13 -----	1-7, 13-21
Y	US 2004/063794 A1 (SCHWARZ JOSEPH [CA] ET AL) 1 April 2004 (2004-04-01) page 2, paragraphs 14-18,25 claims 1-20 -----	11

INTERNATIONAL SEARCH REPORT

International application No.
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Box 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:

Although claim 21 is 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:
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 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:

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/EP2006/008170
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