Title: TOPICAL SKIN TREATING COMPOSITIONS

Abstract: Topical compositions and methods of using same for treating various skin disorders or conditions. In a particular aspect, these compositions comprise a storage-stable mixture of a benzoyl peroxide-containing composition, an antibiotic or a pharmaceutically acceptable salt or ester thereof, and a retinoid or a pharmaceutically acceptable salt thereof. In an alternative embodiment, these compositions comprise a storage-stable mixture of a retinoid or a pharmaceutically acceptable salt thereof and either a benzoyl peroxide-containing composition or an antibiotic or a pharmaceutically acceptable salt or ester thereof.
A. CLASSIFICATION OF SUBJECT MATTER
USPC: 424/78.02
IPC(8): A61K 31/00 (2007.01)
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)
USPC: 424/78.02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 424/78.02, 424/78.03, 424/78.05, 424/78.06, 424/78.07, 424/47, 514/817, 514/827, 514/828, 514/866, 514/887
IPC(8): A61K 31/74, A61K 9/00, A61K 9/00 (see the key words below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Electronic database searched: USPTO WEST (USPT, EPAB, JPAB, PGPub), Thomson dialog, Google.Search terms used: topical adj composition, skin, disorder, benzoyl or peroxide, pH, viscosity, antibiotic, storage-stable, carrier, ester, rethoid, centipoises, suspension or emulsion or ointment or spray, tetracycline, surfactants.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 5,879,666 A (Coury et al.) 09 March 1999 (09.03.1999) abstract; col 13, ln 0510; col 10, ln 35-41; col 11, ln 07-12; claim 1, 16 and 34; 11, ln 22-26; col 10, ln 35-41; col 17, ln 53-58; col 2, ln 19-39; claim 1; col 17, ln 32-36; col 12, ln 08 to col 13, ln 03; col 14, ln 26 to col 16, ln 07; col 2, ln 33-33; col 1, ln 12-18 and in 30-32.</td>
<td>1-5, 7-23, 28-31 and 35-38</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,573,757 A (Riess et al.) 12 November 1996 (12.11.1996) col 8, ln 01-04; col 9, ln 12-13; col 8, ln 03-04; col 4, ln 28-29.</td>
<td>6, 24, 25 and 32-34</td>
</tr>
</tbody>
</table>

☐ Further documents are listed in the continuation of Box C. ☐

"A" 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 application or patent 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
"P" document published prior to the international filing date but later than the priority date claimed

"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
"R" document member of the same patent family

Date of the actual completion of the international search
13 March 2007 (13.03.2007)

Date of mailing of the international search report
07 MAY 2007

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450
Facsimile No. 571-273-3201

Authorized officer:
Lee W. Young
PCT Helpdesk: 571-272-4300
PCT ORP: 571-272-7774

Form PCT/ISA/210 (second sheet) (April 2005)