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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PERSONAL CARE COMPOSITIONS WITH COLOR CHANGING INDICATOR

(57) Abstract: The invention describes a composition for use in disinfecting a surface for personal use, such as a public restroom facility or telephone. The composition and delivery of the composition provides for the placement of a thin layer of disinfectant which includes an acid-base indicator. The acid-base indicator disappears as the thin layer effects the germicidal activity of the disinfectant. The composition is also rapidly drying, so that the acid-base indicator disappears as well as the disinfecting composition leaving the surface dry. The invention also relates to use of the compositions in a lotion, such as a sunscreen. Use of the acid-base indicator provides a method to visualize where the lotion is applied by color, with the color then later dissipating.

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/011459

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61K8/49 C11D11/00 C11D3/00 C11D17/04 A61K8/02
A61Q19/10 A61Q17/04 A61F13/42 A61L15/56

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)

C11D A61K A61Q A61F A61L

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, PAJ, WPI Data, 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	US 5 064 635 A (CASEY ET AL) 12 November 1991 (1991-11-12) column 1, lines 37-49 column 2, lines 33-37 claims; examples	1-7
X	WO 90/05529 A (BRANDEIS UNIVERSITY) 31 May 1990 (1990-05-31) page 16, paragraph 1-3; claims 12,36	1-7
X	US 5 154 917 A (IBRAHIM ET AL) 13 October 1992 (1992-10-13) column 4, line 12 - column 5, line 46; claims 1,4; examples 1-3	1-7
X	GB 23463 A A.D. 1904 (JOSEF LUDWIG HAWLICZEK) 12 October 1905 (1905-10-12) page 2, lines 4-11	1-7



Further documents are listed in the continuation of Box C.



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
- *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.
- * & * document member of the same patent family

Date of the actual completion of the international search

4 August 2006

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10. 11. 2006

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2006/011459

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:
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:

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 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.:

1-7

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ 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: 1-7

biocide composition comprising a germicide, a surfactant and an acid-base indicator according to formula (I).

2. claims: 8-15

disposable surface wipe article comprising a surfactant in an aqueous solution and an acid-base indicator according to formula (I).

3. claims: 16-20

absorbent article comprising absorbent assembly and embedded into or on the absorbent assembly an acid-base indicator according to formula (I).

4. claims: 21-26

lotion comprising a thickener, an emulsifier, an emollient, a surfactant, a film former and an acid-base indicator according to formula (I).

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2006/011459

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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