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(54) Title: LOW IRRITATION ANTIMICROBIAL CLEANING SUBSTRATE

(57) Abstract: The transfer of antimicrobial agent from a cleaning substrate to the skin can be reduced resulting in reduced skin irritancy when the viscosity of the cleaning composition containing the antimicrobial is increased in viscosity. The transfer is measured by the Simulated Hand Transfer Method. The cleaning substrate is used to clean hard surfaces, especially bathroom surfaces such as toilets, and is attached to a cleaning implement. Also provided is a method of promoting a product having reduced skin irritancy.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/68700

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **G09B 25/00(2006.01)**

USPC: 434/367
 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)
 U.S. : 434/367

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 practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/0235550 (PAN et al) 25 December 2003 (25.12.2003), paragraphs [0006], [0044], [0051].	1,2
A	US 5,972,876 (ROBBINS et al) 26 October 1999 (26.10.1999), col. 2, lines 1-34, col. 10, lines 59-67.	1,2
A	WO 2001/32138 (JEYES GROUP LIMITED) 10 May 2001 (10.05.2001), pages 3, 8.	1,2

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	"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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 21 August 2008 (21.08.2008)	Date of mailing of the international search report 15 SEP 2008
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 Sharmila Landay <i>Sharmila Landay</i> Telephone No. (571) 272-0700

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

Group I, claim(s) 1 and 2, drawn to a method of promoting a first product.

Group II, claim(s) 3-19, drawn to a method of reducing the skin irritation of a disposable substrate.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The technical feature which is common to both groups is a cleaning substrate comprising an antimicrobial agent. This element cannot be a special technical feature under PCT Rule 13.2 because the element is shown in the prior art. Thomas et al (US Patent 6,569,828) disclose cleaning substrates containing an antibacterial (i.e., antimicrobial) agent (col. 1, lines 66-67).

Continuation of B. FIELDS SEARCHED Item 3:

EAST, CAS online

search terms: hard near3 surface, cleaner, compar\$4, irrita\$4, antimicrobial, antibacterial, microbicid\$3, hand, transfer

INTERNATIONAL SEARCH REPORT

international application no.

PCT/US07/68700

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:
Please See Continuation 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 additional fees, this Authority did not invite payment of any 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.:

 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 and 2
- 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.