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(71) Applicant and

(72) Inventor: **TSAUR, Garry** [US/US]; 19222 Tranbarger  
Street, Rowland Heights, CA 91748 (US).

(74) Agent: **NIEH, Joe**; 18760 E. Amar Road #204, Walnut,  
CA 91789 (US).

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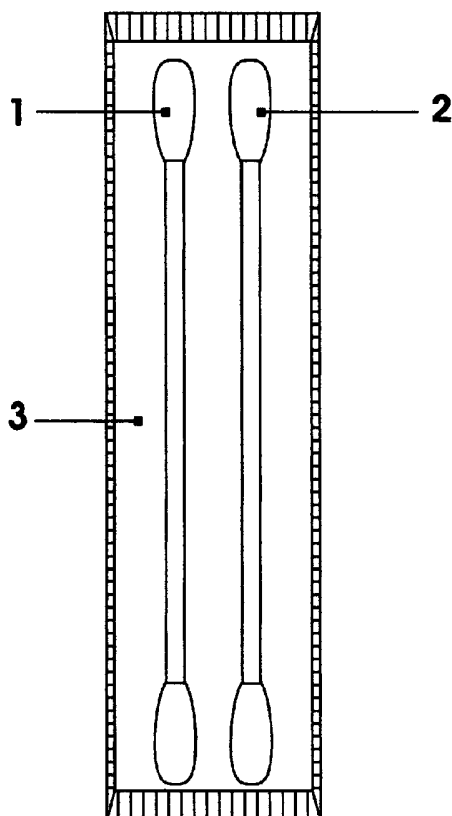
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**Declarations under Rule 4.17:**

— *as to the identity of the inventor (Rule 4.17(i)) for all des-  
ignations*

[Continued on next page]

(54) Title: TWO STEP CLEANING-TREATMENT PROCESS AND PACKAGING



(57) Abstract: A two step cleaning-treatment process and packaging that is portable and can be used anytime and anyplace and applied with great accuracy to desired location. In the preferred embodiment, the two step cleaning-treatment packaging comprises of a small portable packaging (3) with one or more swab applicators (1) for cleaning and one or more swab applicators (2) for treatment. In the most preferred embodiment, the cleaning solution is sealed within the swab applicator (1) and may be easily released into the applicator tip for application, and the treatment medication is sealed within another swab applicator (2) and may be easily released into the applicator tip for application.



- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- of inventorship (Rule 4.17(iv)) for US only

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.

**Published:**

- with international search report

**PCT INTERNATIONAL PATENT APPLICATION OF  
GARRY TSAUR  
FOR  
TWO STEP CLEANING-TREATMENT PROCESS AND PACKAGING**

**BACKGROUND-FIELD OF INVENTION**

**[0001]** The present invention relates generally to a two step cleaning-treatment process and packaging. More specifically, the present invention relates to a two step cleaning-treatment process that is contained in an integrated package.

**BACKGROUND-DESCRIPTION OF RELATED ART**

**[0002]** Human skin, particularly the facial skin, requires periodic cleaning. This cleaning is generally performed with water and a cleaning agent such as soap. When there is a skin problem or infection, such as acne and athlete's foot, a treatment is generally required after the cleaning. Acne is the term for plugged pores (blackheads and whiteheads), pimples, and even deeper lumps (cysts or nodules) that occur on the face, neck, chest, back, shoulders, and even the upper arms. Acne affects most teenagers to some extent. However, the disease is not restricted to any age group; adults in their 20s - even into their 40s - can get acne. While

not a life threatening condition, acne can be upsetting and disfiguring. When severe, acne can lead to serious and permanent scarring. Even less severe cases can lead to scarring. Athlete's foot, or tinea pedis, is a fungal infection, tiny plant-like "germs," that can grow and multiply on human skin, especially the feet.

**[0003]** Conventional teachings for the treatment of acne and athlete's foot comprises of a regiment of daily cleaning with soap and water follow by application of medication to treat the problem areas. This regiment is generally performed at home where a sink and a supply of water is available. Generally, the entire area, including the affected area, is cleaned with soap and water. For example, for acne on the face, the entire facial area is rinsed and washed with soap and water, and for athlete's foot, the entire foot is rinsed and washed with soap and water. After the cleaning, a medication is applied with a cotton swab or a patch to the problem areas to minimize or cure the skin condition. Generally, the medication is applied only to the problem areas, such as the acne or the location of the fungal infection for athlete's foot. The medication is generally not applied to the entire area, such as the entire face or the entire foot.

**[0004]** This regiment cannot be conveniently performed away from a sink or a clean source of water, such as outside of the home or restroom. Furthermore, this regiment may result in unnecessary and excess cleaning of the skin which may cause irritation and drying of the healthy skin around the affected area. Only the affected area needs the cleaning and treatment, however, with the conventional method, the entire surrounding area must be cleaned. This inconvenience and the unnecessary excess cleaning is avoided with the present invention.

## BRIEF SUMMARY OF THE INVENTION

**[0005]** The present invention is a two step cleaning-treatment process and packaging that is portable and can be used anytime and anyplace and applied with great accuracy to desired location. In the preferred embodiment, the two step cleaning-treatment packaging comprises of a small portable packaging with one or more swab applicators for cleaning and one or more swab applicators for treatment. In the most preferred embodiment, the cleaning solution is sealed within the swab applicator and may be easily released into the applicator tip for application, and the treatment medication is sealed within another swab applicator and may be easily released into the applicator tip for application. The most preferred swab applicator is the slender tubular container disclosed in United States Patent No. 5,702,035. The most preferred cleaning solution is a non-toxic environmentally friendly aqueous disinfectant disclosed in United States Patent No. US 6,197,814 B1.

## BRIEF DESCRIPTION OF THE DRAWINGS

**[0006]** Figure 1 shows the two step cleaning-treatment process and packaging in an aluminum foil package.

**[0007]** Figure 2 shows the two step cleaning-treatment process and packaging in a small hardshell plastic case.

## DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

**[0008]** The following description and figures are meant to be illustrative only and not limiting. Other embodiments of this invention will be apparent to those of ordinary skill in the art in view of this description.

**[0009]** The present invention is a two step cleaning-treatment process and packaging that is portable and can be used anytime and anyplace and applied with great accuracy to desired

location. As shown in figures 1 and 2, the two step cleaning-treatment process and packaging comprises of a small portable packaging with one or more swab applicators **1** for cleaning and one or more swab applicators **2** for treatment.

**[0010]** The packaging may comprise of a foil type of seal **3**, such as aluminum foil, with two applicators **1, 2**, one with the cleaning solution and the other with the treatment medication as shown in figure 1. The packaging may also comprise of a small hardshell plastic case **4** such as that shown in figure 2 with multiple applicators **1** with the cleaning solution on one side and multiple applicators **2** with the treatment solution on the other side or with alternating applicator **1** with the cleaning solution and applicator **2** with the treatment solution. In another embodiment, the packaging may comprise of two small hardshell plastic cases each with multiple applicators enclosed. In one of the small hardshell plastic case are disposed multiple applicators with the cleaning solution, and in the other small hardshell plastic case are disposed multiple applicators with the treatment solution.

**[0011]** In the preferred embodiment, the cleaning solution is sealed within the swab applicator **1** and may be easily released into the applicator tip for application, and the treatment medication is also sealed within another swab applicator **2** and may be easily released into the applicator tip for application. The preferred swab applicator is the slender tubular container disclosed in United States Patent No. 5,702,035. Other applicators such as pre-moistened pads may also be used.

**[0012]** The cleaning solution may be water or any other liquid or cream that has cleaning properties on the skin. The most preferred cleaning solution is a non-toxic environmentally friendly aqueous disinfectant disclosed in United States Patent No. US 6,197,814 B1.

**[0013]** The treatment medication may be any of the commercially available over the counter treatments or prescription medications. For acne, over-the-counter medication such as benzoyl peroxide, salicylic acid, sulfur, and resorcinol, or prescription medication such as

adapalene, azelaic acid, benzoyl peroxide, clindamycin, erythromycin, sodium sulfacetamide, tazarotene, and tretinoin may be used. For athlete's foot, anti-fungal creams or liquids may be used as well as miconazole, ketoconazole, econazole, clotrimazole, oxiconazole, sulconazole, terconazole, terbinafine, and naftifine.

**[0014]** An user only has to take with him a small unit dose package that can both clean and treat the skin anytime anyplace. The user may conveniently carry as many of the small unit dose package as necessary and clean and apply the treatment medication as often as necessary. The user does not need to have access to water or a sink to perform the cleaning and treatment regiment. Furthermore, the cleaning and treatment may be performed with pinpoint accuracy without affecting the surrounding healthy skins.

**[0015]** Although the invention has been described in terms of particular embodiments and applications, one of ordinary skill in the art, in light of this teaching, can generate additional embodiments and modifications without departing from the spirit of or exceeding the scope of the claimed invention. Accordingly, it is to be understood that the drawings and descriptions herein are proffered by way of example to facilitate comprehension of the invention and should not be construed to limit the scope thereof.

## CLAIMS

What is claimed is:

1. A two step cleaning-treatment process comprising the steps of:  
cleaning a surface with a first applicator with a cleaning solution; and  
treating said surface with a second applicator with a treatment medication;  
wherein said first applicator with said cleaning solution and said second applicator with said treatment medication are packaged together within a single portable package.
2. A two step cleaning-treatment process as in claim 1, wherein said first applicator and said second applicator are slender tubular containers as disclosed in United States Patent No. 5,702,035.
3. A two step cleaning-treatment process as in claims 1 or 2, wherein said cleaning solution is water or a non-toxic environmentally friendly aqueous disinfectant as disclosed in United States Patent No. US 6,197,814 B1.
4. A two step cleaning-treatment process as in claims 1 or 2, wherein said treatment medication is benzoyl peroxide, salicylic acid, sulfur, resorcinol, adapalene, azelaic acid, benzoyl peroxide, clindamycin, erythromycin, sodium sulfacetamide, tazorotene, tretinoin, anti-fungal cream or liquid, miconazole, ketoconazole, econazole, clotrimazole, oxiconazole, sulconazole, terconazole, terbinafine, or naftifine.
5. A two step cleaning-treatment process as in claims 1 or 2, wherein said single portable package is an aluminum foil.
6. A two step cleaning-treatment process as in claims 1 or 2, wherein said single portable package is a hardshell plastic case.
7. A two step cleaning-treatment packaging comprising:  
a single portable packaging;



a first applicator with a cleaning solution disposed within said single portable packaging; and

a second applicator with a treatment medication disposed within said single portable packaging;

wherein said first applicator is used to clean a surface thereafter said second applicator is used to medically treat said surface.

8. A two step cleaning-treatment packaging as in claim 7, wherein said first applicator and said second applicator are slender tubular containers as disclosed in United States Patent No. 5,702,035.

9. A two step cleaning-treatment process as in claims 7 or 8, wherein said cleaning solution is water or a non-toxic environmentally friendly aqueous disinfectant as disclosed in United States Patent No. US 6,197,814 B1.

10. A two step cleaning-treatment process as in claims 7 or 8, wherein said treatment medication is benzoyl peroxide, salicylic acid, sulfur, resorcinol, adapalene, azelaic acid, benzoyl peroxide, clindamycin, erythromycin, sodium sulfacetamide, tazorotene, tretinoin, anti-fungal cream or liquid, miconazole, ketoconazole, econazole, clotrimazole, oxiconazole, sulconazole, terconazole, terbinafine, or naftifine.

11. A two step cleaning-treatment process as in claims 7 or 8, wherein said single portable package is an aluminum foil.

12. A two step cleaning-treatment process as in claims 7 or 8, wherein said single portable package is a hardshell plastic case.

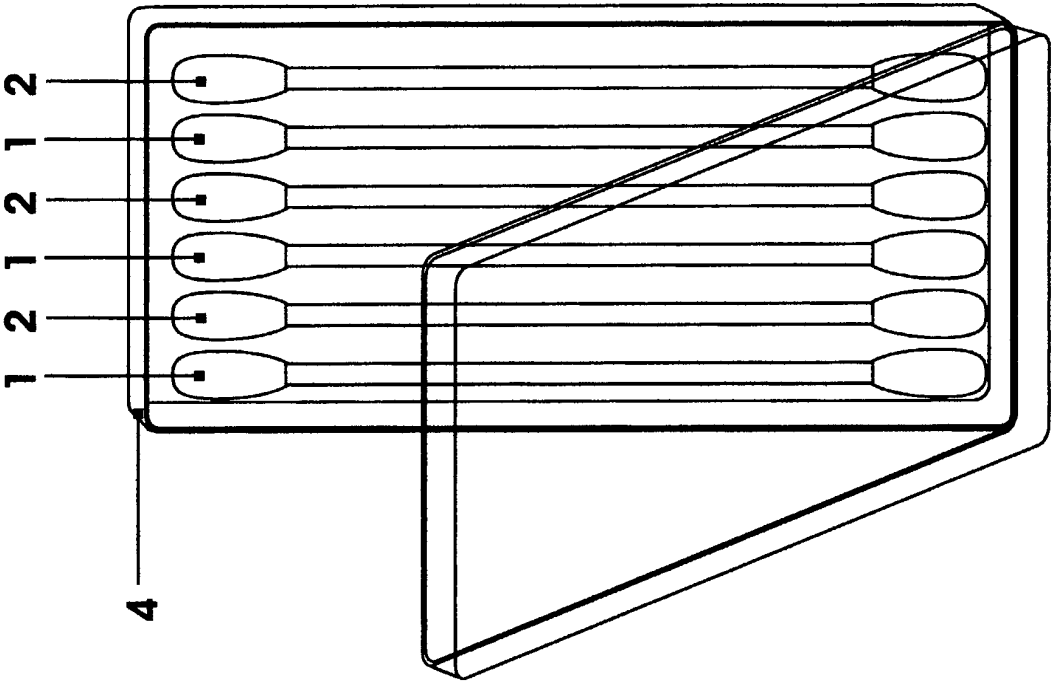


Fig. 2

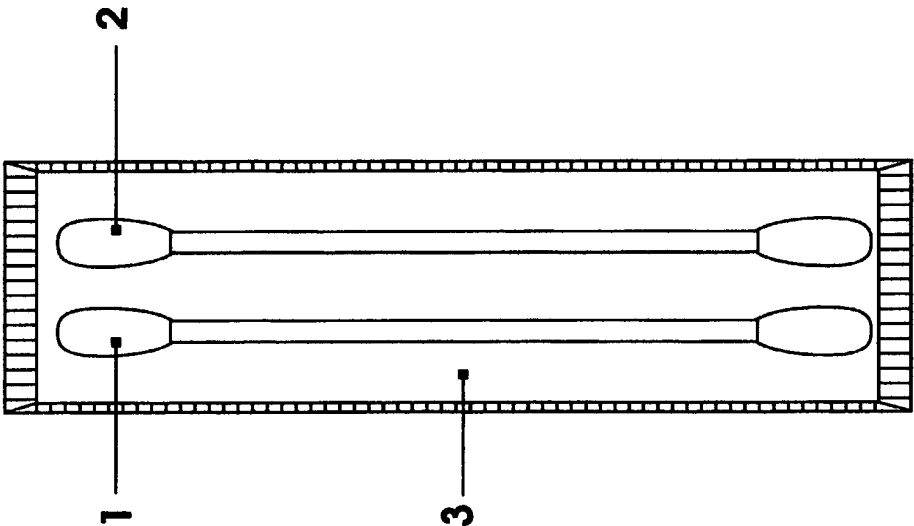


Fig. 1

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/02204

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61M 35/00

US CL : 604/3, 289, 290

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. : 604/1-3, 289, 290

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
East, search terms: package, (medicinal or medicament or medication or medicine), clean\$7, first aid, kit, acne

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,702, 035 A (TSAO) 30 December 1997 (30.12.97), see entire reference.	1-12
A	US 6,197,814 B1 (ARATA) 06 March 2001 (06.03.2001), see entire reference.	1-12
X	US 1,234,397 A (SCHULZ) 24 July 1917 (24.07.1917), see Figures and page 1, lines 26-29 and 74-82.	7
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Y		12/7
Y	US 2,108,492 A (LAGIER) 15 February 1938 (15.02.1938), see page 1, lines 25-29.	7/12
X	US 3,976,195 A (COHEN) 24 August 1976 (24.08.1976), see Figure 9, paragraph bridging cols. 4-5, first full paragraph in col. 6, col. 8, line 36-col. 10, line 2.	1, 5/1, 6/1, 7, 11/7, 12/7
X	US 5,470,323 A (SMITH et al ) 28 November 1995 (28.11.1995), see Figures, col. 4, lines 31-44 and 53-56, col. 6, lines 45-56, col. 5, lines 33-46, col. 8, lines 13-18, col. 9, lines 28-20 and 42-46, col. 14, lines 49-53, col. 15, lines 38-42.	1, 4/1, 5/1, 7, 10/7, 11/7

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

☐ See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"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	

Date of the actual completion of the international search

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Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Harin M. Reichle

Telephone No. (703) 308-0858

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/02204

### 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.: 2, 3, 4-6/2, 8, 9 and 10-12/8  
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:  
Please See Continuation Sheet
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:

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

International application No.  
PCT/US04/02204

### Continuation of Box II Reason 2:

Claims 2-3, 4-6/2, 8-9 and 10-12/2 were not searched because no meaningful search could be carried out because the exact scope of the claims could not be determined because such claims were of the omnibus type, i.e. "as disclosed.....", incorporating the disclosure of another patent.