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[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR PROVIDING AN ANTIMICROBIAL DISPENSING APPLICATOR

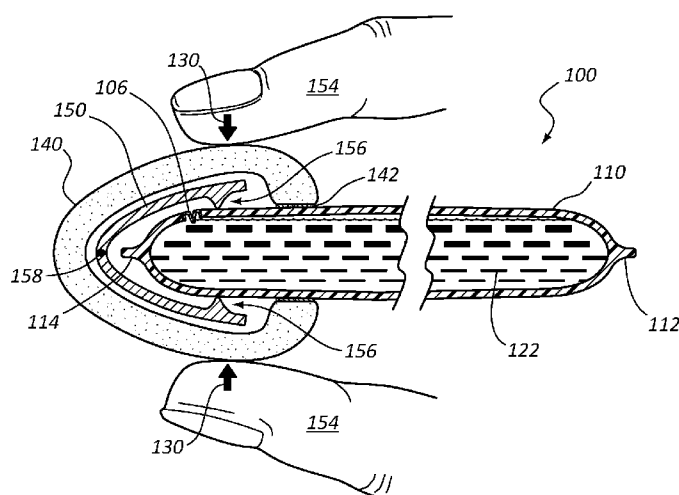


FIG. 1

(57) Abstract: A handheld antiseptic dispensing applicator device having a reservoir for storing an antiseptic agent, the reservoir being coupled to an applicator pad, and a defeatable membrane or barrier being interposed between the reservoir and the applicator pad. Embodiments of the device comprise a squeezable reservoir, wherein the internal hydraulic pressure of the squeezable reservoir is increased via user applied forces to thereby defeat the membrane releasing the antiseptic agent contained therein which is then absorbed by the applicator pad. The defeatable barrier or membrane is also removable or may be defeated in connection with other mechanisms according to various embodiments.



Declarations under Rule 4.17:

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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INTERNATIONAL SEARCH REPORT

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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) A61M		
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) EP0-Internal, WPI 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 2004/223801 A1 (DETWILER BRUCE D [US] ET AL) 11 November 2004 (2004-11-11) paragraphs [0006], [0019], [0025], [0069], [0071], [0072], [0078]; figures 1,3,4a -----	1,12,14,18
X	US 2004/068218 A1 (DAVIS ROBERT A [US] ET AL) 8 April 2004 (2004-04-08) paragraphs [0045] - [0046], [0061] - [0079] -----	1,2,12,14,18
X	US 5 558 874 A (HABER TERRY M [US] ET AL) 24 September 1996 (1996-09-24) column 3, lines 55-67; figures 2,7 columns 4,5 ----- -/--	1,12,14,18
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex. </div>		
<div style="display: flex;"> <div style="flex: 1;"> <p>* Special categories of cited documents :</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent 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> </div> <div style="flex: 1;"> <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> </div> </div>		
Date of the actual completion of the international search <div style="text-align: center; font-size: 1.2em;">5 June 2015</div>		Date of mailing of the international search report <div style="text-align: center; font-size: 1.2em;">21/08/2015</div>
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer <div style="text-align: center; font-size: 1.2em;">Bielsa, David</div>

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2015/015480

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:

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 fees, this Authority did not invite payment of 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, 2, 12, 14, 18

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.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2015/015480

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/240927 A1 (HOANG MINH QUANG [US] ET AL) 2 December 2004 (2004-12-02) paragraphs [0054] - [0060]; figures 3,6 -----	1,2,12
X	US 4 812 067 A (BROWN JAMES B [US] ET AL) 14 March 1989 (1989-03-14) column 9, lines 20-63; figures 9,10 -----	1,12,18

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, 2, 12, 14, 18

an applicator device and method of manufacture thereof according to claim 1 further comprising a pinching actuator coupled adjacent the distal end of the body between the body and the pad.

2. claims: 3, 19, 20

an applicator device according to any of the claims 1 or 18 further comprising a retention ring positioned adjacent the distal end of the body, wherein the retention ring is coupled to the pad.

3. claim: 4

an applicator device according to claim 1 wherein the distal end of the body is cone-shaped.

4. claims: 5, 15

an applicator device and method of manufacture thereof according to claim 1 further comprising a roller clamp actuator assembly.

5. claims: 6, 16, 17

an applicator device and method of manufacture thereof according to claim 1 wherein the defeatable barrier comprises a helical groove formed in the semi-rigid material of the body.

6. claims: 7, 8, 13

an applicator device and method of manufacture thereof according to claim 1 further comprising an air vent located within the body.

7. claims: 9, 10

an applicator device according to claim 1 wherein the proximal portion has a diameter which is smaller than the diameter of the distal portion.

8. claim: 11

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

an applicator device according to claim 1 wherein the defeatable barrier interposedly positioned between the reservoir and the pad comprises a removable pull-tab barrier.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2015/015480

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