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- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,

BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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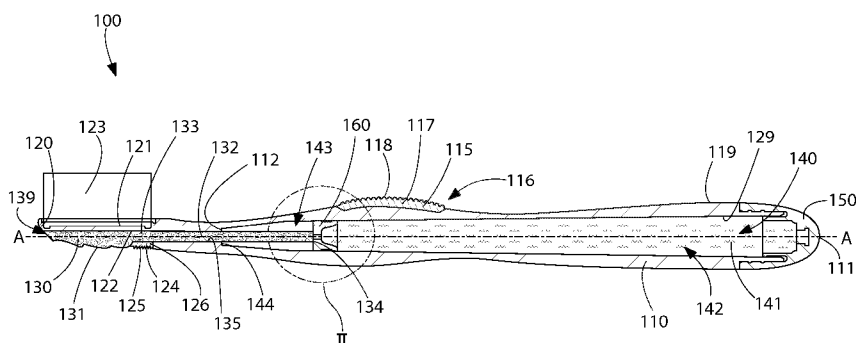
(54) **Title:** ORAL CARE IMPLEMENT

FIG. 1

- (57) **Abstract:** An oral care implement having an internal reservoir. In one embodiment, the invention can be a toothbrush comprising: a handle having an internal reservoir containing an oral care fluid; a head coupled to the handle; an applicator located on the head; a partition member positioned within the internal reservoir that divides the internal reservoir into a storage chamber and an overflow chamber; a passageway extending through the partition member from the storage chamber to the overflow chamber, the passageway terminating as a first opening in a first surface of the partition member and as a second opening in a second surface of the partition member; and a wick member having a first end in fluid communication with the applicator and a second end terminating in an end surface that abuts the second surface of the partition member to prohibit axial movement of the wick member in a first axial direction.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2013/063678

A. CLASSIFICATION OF SUBJECT MATTER
INV. A46B11/00 A46B15/00
ADD.

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)
A46B

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)

EPO-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. |
|-----------|--|-----------------------|
| A | US 5 062 728 A (KUO YOUTI [US]) 5 November 1991 (1991-11-05) column 4, line 55 - column 6, line 13 figures 7a,7b | 1-15 |
| X | ----- WO 2012/105961 A1 (COLGATE PALMOLIVE CO [US]; JIMENEZ EDUARDO [US]; KENNEDY SHARON [US]) 9 August 2012 (2012-08-09) paragraph [0016] - paragraph [0024] figures 1-4 | 1-4,6, 9-15 |
| X | ----- AU 2011 253 669 A1 (COLGATE PALMOLIVE CO) 22 December 2011 (2011-12-22) paragraph [0019] - paragraph [0023] paragraph [0024] - paragraph [0031] paragraph [0025] figures 1,7 ----- -/- | 1-15 |



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 application or patent but published on or after the international filing date

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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

"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

14 May 2014

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26/05/2014

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/063678

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.:

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15

A toothbrush comprising a wick member having an end surface that abuts the second surface of a partition member to prohibit axial movement of the wick member in a first axial direction.

2. claims: 16-24

A toothbrush comprising a partition member having an inlet section which has a maximum transverse cross-sectional area that is greater than a maximum transverse cross-sectional area of a delivery section.

3. claims: 25-29

A toothbrush comprising a wick member having a second end terminating in an end surface having an outer perimeter that surrounds the second opening.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2013/063678

| C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|--|-----------------------|
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | BE 520 830 A1 (BARTH O. M.) 15 July 1953 (1953-07-15) page 2, lines 25-42 figure ----- | 16-21, 23,24 |
| X | US 5 393 153 A (BOUTHILLIER ROCH-JEAN [CA] ET AL) 28 February 1995 (1995-02-28) column 4, line 31 - column 6, line 49 figures 4,5 ----- | 15-21,23 |
| X | US 6 416 242 B1 (KAUFMANN RAINER [DE]) 9 July 2002 (2002-07-09) column 13, line 54 - column 14, line 46 column 16, lines 1-10 claims 1,6 figure 16 ----- | 16-29 |
| A | WO 2012/134435 A1 (COLGATE PALMOLIVE CO [US]; BOYD THOMAS J [US]; GATZEMEYER JOHN J [US];) 4 October 2012 (2012-10-04) paragraph [0043] - paragraph [0049] figure 4 ----- | 25-29 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2013/063678

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