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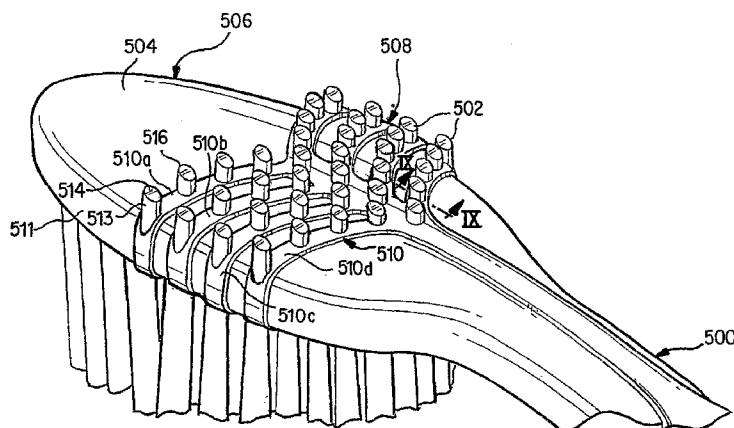
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[Continued on next page]

(54) Title: ORAL CARE IMPLEMENT



(57) Abstract: An oral care implement with a handle includes a head (506) with a tissue cleanser (508). The tissue cleanser may be a pad composed of an elastomeric material. The pad is disposed on the head on a surface opposite the tooth cleaning elements. The tissue cleanser may include a plurality of nubs (502) extending for cleaning between the papillae of the tongue. The tissue cleanser may include a plurality of conically shaped nubs. A tissue cleanser can be used to reduce oral malodor problems and remove oral epithelial cells.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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**(88) Date of publication of the international search report:**

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# INTERNATIONAL SEARCH REPORT

International application No

PCT/US2005/046369

## A. CLASSIFICATION OF SUBJECT MATTER

INV. A46B15/00 A46B9/04 A46B5/00

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 practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/134007 A1 (DAVIES) 15 July 2004 (2004-07-15) paragraphs [0010], [0011]; figures 17-19	1-8
X	DE 94 16 395 U1 (SCHWALM) 8 December 1994 (1994-12-08) figures	8-13
A	WO 01/45573 A (BUCKLEY) 28 June 2001 (2001-06-28) figures	1,8
X	US 5 497 526 A (KLINKHAMMER) 12 March 1996 (1996-03-12)	14,15
Y	column 8, line 60 - line 65; figure 8	16
	-/-	



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents :

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"E" earlier document 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

17 October 2006

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# INTERNATIONAL SEARCH REPORT

International application No

PCT/US2005/046369

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 360 026 A (KLINKHAMMER RONALD W [US]) 1 November 1994 (1994-11-01) figures	16
X	----- NL 45 152 C (STRAATMAN) 15 September 1938 (1938-09-15) figures	17-20
X	----- US 2003/077107 A1 (KUO) 24 April 2003 (2003-04-24) figures	17-19
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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2005/046369

### 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.:

#### 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: 1-13

oral care implement including a cleanser made of protrusions with different shapes  
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2. claims: 14-16

oral care implement with a soft member which makes the implement's head flexible and, at the same time, forms the base for projections which constitute a cleanser  
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3. claims: 17-20

oral care implement including a cleanser formed of a resilient material with projections in one direction for removal of microbial from the soft tissue, and, at the same time, cleaning elements projecting in the opposite direction for acting on a user's teeth  
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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