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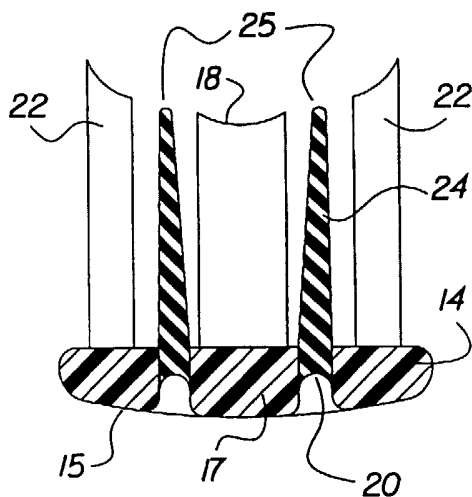
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(54) Title: TOOTHBRUSH WITH FLEXIBLE MEMBRANE



(57) Abstract: A toothbrush (10) includes a head (14) having multiple cleaning elements (18, 22). One group of the cleaning elements (18) is mounted on a movable portion (17) of the head (14) and another group (22) may be fixedly mounted on the head (14). The movable portion (17) of the head is attached by a flexible membrane (20) to the fixed portion (15) of the head so that the membrane (20) is capable of flexing to alter its original orientation during use of the toothbrush and then recover to the original orientation randomly during use.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26738

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A46B 9/04; A47L 13/12

US CL : 15/110, 117, 167.1, 201

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. : 15/110, 117, 167.1, 201; D4/104

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,E ---	US 6,675,428 B2 (HALM) 13 January 2004 (13.01.2004), figures 9-11, 18-21.	1-2, 6-7, 10-12
Y,E		5, 13-17, 20
X ---	US 5,651,158 A (HALM) 29 July 1997 (29.07.1997), figures 4A-4F, column 5 lines 11-32.	1, 2, 6-11
Y		13-15
X, E ---	US 6,641,764 B2 (LANVERS) 04 November 2003 (04.11.2003), figure 2A.	1-2, 6-8, 10-11
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Y	US 5,604,951 A (SHIPP) 25 February 1997 (25.02.1997), column 2 lines 11-33.	20



Further documents are listed in the continuation of Box C.



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INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A, P	US 2003/0084533 A1 (GELDER et al) 08 May 2003 (08.05.2003), figures 4-6, 11.	1-20
A	US 5,813,079 A (HALM) 29 September 1998 (29.09.1998), figures.	1-20
A	US 4,488,328 A (HYMAN) 18 December 1984 (18.12.1984), figure 1.	1-20
A	US 3,103,680 A (KRICHMAR) 17 September 1963 (17.09.1964), figures.	1-20