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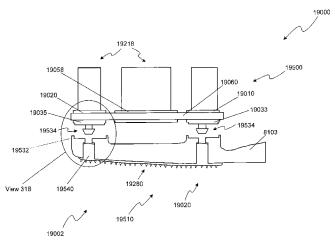


FIG. 31A

(57) Abstract: An oral care implement is provided having a head frame and a cleaning elements assembly attached thereto with tooth cleaning elements extending from one or more carriers. One or more central carriers can be suspended via a flexible bridge between a pair of support carriers attached to the head frame. The bridge may be formed from an elastomer and permit the one or more central carriers to move from an initial position toward the head frame during use. The bridge may include rigid supports and flexible elastomeric supports. The carriers and the bridge can be formed as a unitary assembly attached to the head frame, such as via mechanical connections. The mechanical connections could include snap-fit connections.





INTERNATIONAL SEARCH REPORT

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DOCUME	ENTS CONSIDERED T	O BE RELEVANT					
Category*	Citation of document,	with indication, where a	appropriate, of the re	elevant pass	ages		Relevant to claim No.
(00925 A1 (MOS ber 2006 (200		AL)			1-4, 9-13, 18-23
		s [0094] - [0 igures 19,20 	0096], [00 	98],			10 23
(232 U1 (WENIG 1994 (1994-03					1-4, 9-13, 18-21
-	page 3; f	igure 1					
	WO 89/065 27 July 1	 28 A (KLINKHA 989 (1989-07-	 MMMER) -27)				1-3, 9-12,18, 19,21
	page 33, figures 2	line 33 - pag 5-31	je 38, line 	7;			
	·			-/			
X Furth	ner documents are liste	d in the continuation of I	Вох С.	X s	ee patent fam	ily annex.	
A docume consid	ered to be of particular	state of the art which is		or pri cited inver	ority date and to understand ition	not in conflict wi the principle or t	nternational filing date th the application but theory underlying the
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INTERNATIONAL SEARCH REPORT

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		PCT/US2008/078223		
C(Continua	ntion). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	US 5 224 764 A (KLINKHAMMER) 6 July 1993 (1993-07-06) column 13, lines 21-39; figures 27-30	1-4, 9-13, 18-21,23		
A	US 2 111 880 A (WATERS) 22 March 1938 (1938-03-22) column 2, lines 33-36 column 3, lines 40-48; figures 3,10	1-4, 10-13,18		
Ρ,Χ	US 2007/277339 A1 (BARSHESHET) 6 December 2007 (2007-12-06) paragraphs [0063], [0064], [0066], [0068]; figures 1A-1C,2A,2B	1-3, 9-12,18, 19,21,23		

INTERNATIONAL SEARCH REPORT

information on patent family members

International application No PCT/US2008/078223

Patent document cited in search report.		Publication date	Patent family member(s)	Publication date
US 2006200925	A1	14-09-2006	AU 2007249477 A1 CA 2649958 A1 CN 101437420 A EP 2015650 A1 KR 20090007487 A WO 2007134026 A1	22-11-2007 22-11-2007 20-05-2009 21-01-2009 16-01-2009 22-11-2007
DE 9319232	U1	17-03-1994	NONE	
WO 8906528	Α	27-07-1989	NONE	
US 5224764	A	06-07-1993	NONE	
US 2111880	Α	22-03-1938	NONE	
US 2007277339	A1	06-12-2007	NONE	