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(12) **United States Design Patent**
Foley et al.

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(54) **TOOTHBRUSH**

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USPC **D4/104**

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CPC A46B 5/02; A46B 5/023; A46B 5/025;
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9/045; A46B 15/0087; A46B 15/0055;

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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

360,298 A * 3/1887 Hewitt B43K 3/00
15/143.1
1,063,523 A * 6/1913 Farrar 132/311
D57,143 S * 2/1921 Modern et al. D8/317

(Continued)

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Services; Alex Hobson

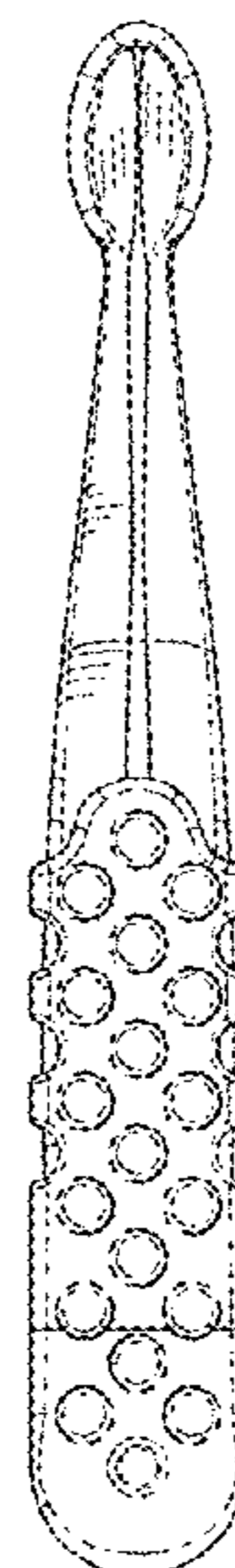
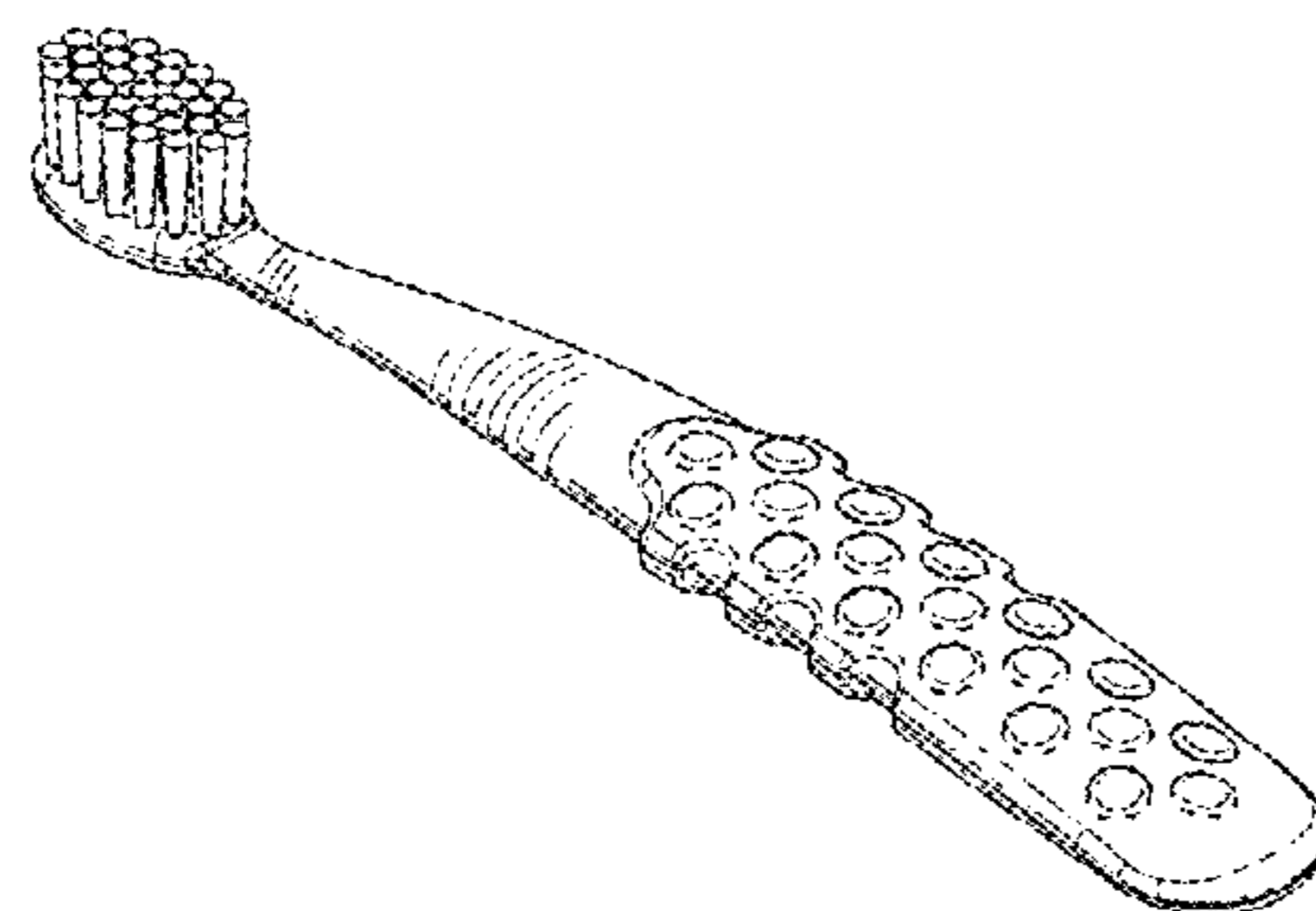
(57) **CLAIM**

The ornamental design for a toothbrush, as shown and
described.

DESCRIPTION

FIG. 1 is a perspective view of the toothbrush;
FIG. 2 is a front view of the toothbrush;
FIG. 3 is a back view of the toothbrush;
FIG. 4 is a side view of the toothbrush, the opposite side
being a mirror image thereof;
FIG. 5 is a handle end view of the toothbrush; and,
FIG. 6 is a brush end view of the toothbrush.
The toothbrush comprises a brush configured on a brush end
and a handle having a plurality of protrusions.

1 Claim, 3 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS	
1,653,002	A * 12/1927 Coleman B25G 1/00 15/104.33
1,899,242	A * 2/1933 McNab A46B 5/00 15/106
D130,824	S * 12/1941 Jobst D4/104
2,360,745	A * 10/1944 Vogel A46B 5/02 15/143.1
2,785,486	A * 3/1957 Peplin A46B 15/00 15/143.1
D196,631	S * 10/1963 Bredon D4/109
4,330,896	A * 5/1982 Booth A46B 7/02 15/167.1
D287,549	S * 1/1987 Arnaud D4/107
D288,628	S * 3/1987 Farrand D4/104
5,052,071	A * 10/1991 Halm A46B 5/0062 15/143.1
5,339,482	A * 8/1994 Desimone A46B 5/02 15/143.1
D375,205	S * 11/1996 Lewkowicz D4/104
D388,959	S * 1/1998 Halm D4/104
D404,205	S * 1/1999 Hohlbein D4/104
5,903,949	A * 5/1999 Halm A46B 5/0062 15/143.1
D411,683	S * 6/1999 Moskovich D4/104
D414,608	S * 10/1999 Trojanowski D4/104
D420,222	S * 2/2000 Angelini D4/104
D421,844	S * 3/2000 Stark D4/104
D426,958	S * 6/2000 Moskovich D4/104
6,101,659	A * 8/2000 Halm A46B 7/02 15/167.1
D443,144	S * 6/2001 O'Halloran D4/111
6,266,840	B1 * 7/2001 Munro A46B 5/02 15/143.1
D446,393	S * 8/2001 Manfredi D4/104
6,322,152	B2 * 11/2001 Trojanowski 15/167.1
6,332,233	B1 * 12/2001 Proulx A46B 5/02 15/143.1
D453,998	S * 3/2002 Ping D4/104
D456,136	S * 4/2002 Roehrig D4/104
D456,667	S * 5/2002 Veltri D7/387
D463,668	S * 10/2002 Yoshimoto D4/104
6,464,920	B1 * 10/2002 Kramer B29C 45/16 15/143.1
6,546,583	B1 * 4/2003 Rohrig A46B 5/02 15/110
D478,216	S * 8/2003 Lee D4/107
D480,189	S * 9/2003 Libman D32/52
D482,199	S * 11/2003 De Salvo D4/104
6,810,550	B1 * 11/2004 Wuelknitz A46D 1/0292 15/167.1
D501,320	S * 2/2005 DeSalvo D4/104
D503,538	S * 4/2005 Desalvo D4/104
D506,068	S * 6/2005 Senyuva D4/108
D513,126	S * 12/2005 Jimenez D4/104
D530,923	S * 10/2006 Kling D4/104
D531,415	S * 11/2006 Won D4/104
D533,350	S * 12/2006 Xi D4/104
D535,823	S * 1/2007 Crossman D4/108
D536,452	S * 2/2007 Geiberger D24/147
7,182,542	B2 * 2/2007 Hohlbein A46B 11/0003 401/132
D543,702	S * 6/2007 Geiberger D4/104
D554,817	S * 11/2007 Talesfore D32/41
D558,980	S * 1/2008 Jimenez D4/106
D562,516	S * 2/2008 Talesfore D32/41
7,334,286	B2 * 2/2008 Kayser A46B 5/0075 15/143.1
D571,470	S * 6/2008 Jansheski D24/147
D576,799	S * 9/2008 Vezin D4/111
D581,163	S * 11/2008 Choi D4/104
D582,681	S * 12/2008 Geiberger D4/104
D593,327	S * 6/2009 Wong D4/104
D600,024	S * 9/2009 McGuire D4/111
D601,805	S * 10/2009 Kayser D4/104
D617,992	S * 6/2010 Gold D28/63
D622,509	S * 8/2010 Crossman D4/104
D623,413	S * 9/2010 Blanchard D4/104
7,845,041	B2 * 12/2010 Gatzemeyer A46B 5/021 15/105
D631,292	S * 1/2011 Bodum D7/401.2
D639,069	S * 6/2011 Nanda D4/108
D652,925	S * 1/2012 Nanda D24/147
D654,270	S * 2/2012 Jimenez D4/104
D654,695	S * 2/2012 Jimenez D4/108
D654,696	S * 2/2012 Jimenez D4/108
D658,884	S * 5/2012 Watanabe D4/104
D670,504	S * 11/2012 Watanabe D4/104
D671,281	S * 11/2012 Singer D30/158
D674,609	S * 1/2013 Li D4/104
D675,447	S * 2/2013 Xi D4/104
8,448,284	B2 * 5/2013 Gross A46B 5/02 15/143.1
D698,156	S * 1/2014 Kling D4/104
D710,615	S * 8/2014 Pereira D4/104
D710,616	S * 8/2014 Corbett D4/104
D719,356	S * 12/2014 Blanchard D4/104
D720,541	S * 1/2015 Behar D4/104
9,044,083	B2 * 6/2015 Nanda A46B 9/04
D742,649	S * 11/2015 Thompson D4/104
D743,175	S * 11/2015 Corbett D4/104
D751,294	S * 3/2016 Xi D4/104
D752,871	S * 4/2016 Montebelli D4/104
D752,872	S * 4/2016 Montebelli D4/104
D760,499	S * 7/2016 Jimenez D4/104
9,420,877	B2 * 8/2016 Wen A46D 3/00
2002/0138931	A1 * 10/2002 Davies A46B 5/02 15/167.1
2003/0150474	A1 * 8/2003 Doyscher A61C 15/046 132/325
2003/0205492	A1 * 11/2003 Ferber A61C 17/22 206/362.2
2004/0181889	A1 * 9/2004 Huber A46B 5/02 15/143.1
2006/0213018	A1 * 9/2006 Gross A46B 5/02 15/143.1
2007/0039109	A1 * 2/2007 Nanda A46B 5/00 15/105
2007/0226931	A1 * 10/2007 Kayser A46B 5/0075 15/167.1
2008/0178406	A1 * 7/2008 Sekercioglu A46B 17/02 15/143.1
2008/0184511	A1 * 8/2008 Brown A46B 7/02 15/110
2008/0315668	A1 * 12/2008 Huber B29C 45/0062 300/21
2009/0158540	A1 * 6/2009 Baertschi A46B 5/0025 15/143.1
2009/0188063	A1 * 7/2009 Baertschi A46B 5/02 15/167.1
2011/0174328	A1 * 7/2011 Cerutti A45D 40/262 132/200
2011/0308029	A1 * 12/2011 Edelstein A46B 5/026 15/167.1
2012/0036662	A1 * 2/2012 Kling A46B 5/0054 15/144.1
2012/0137454	A1 * 6/2012 Huy A46B 15/0008 15/22.1

* cited by examiner

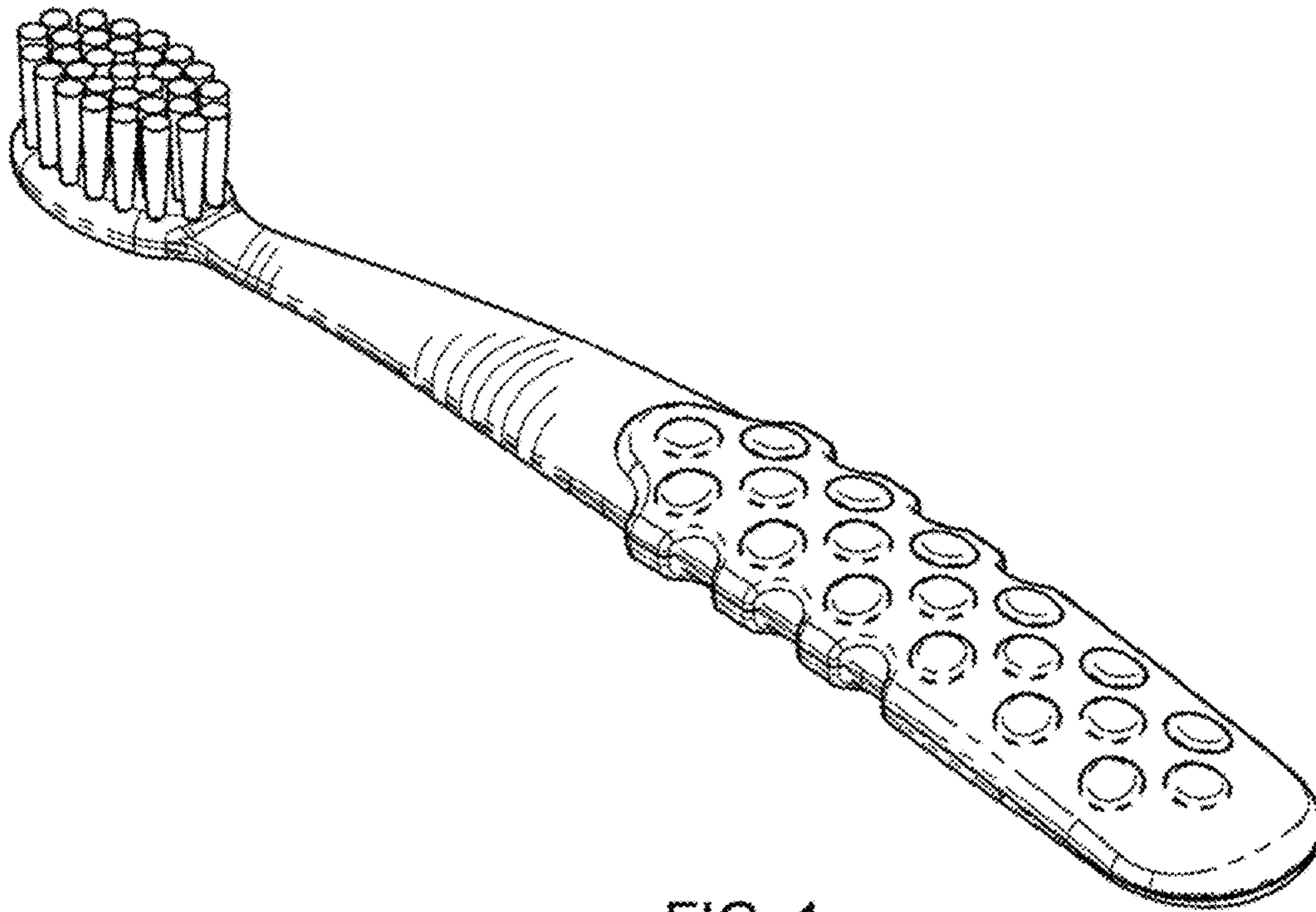


FIG. 1

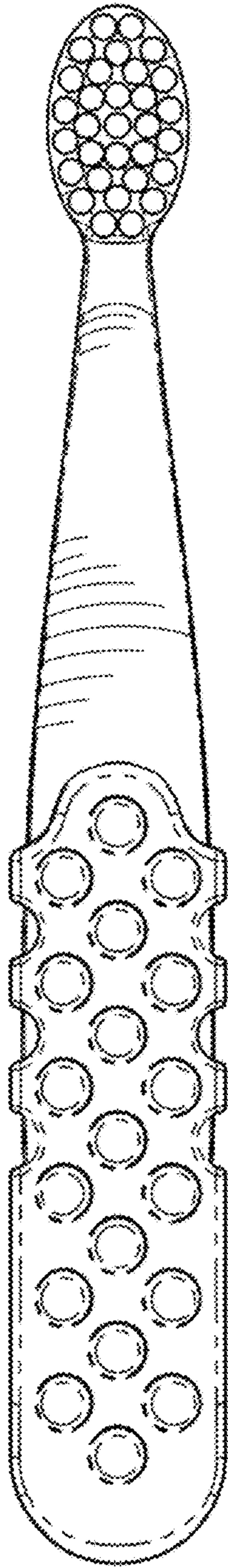


FIG. 2

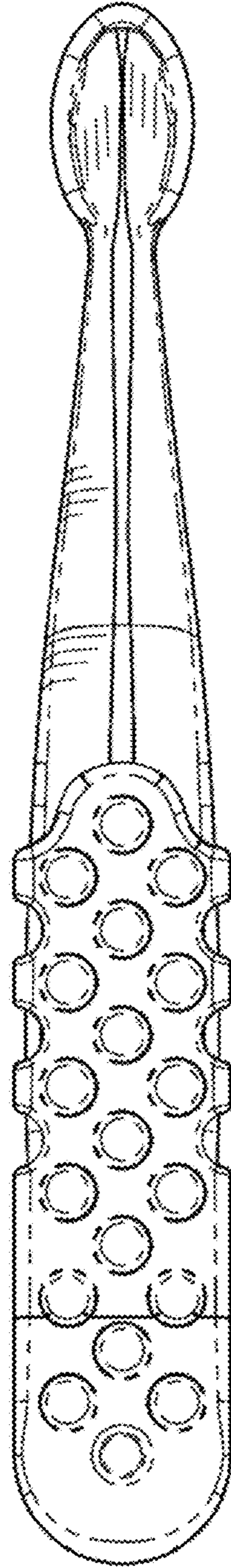


FIG. 3

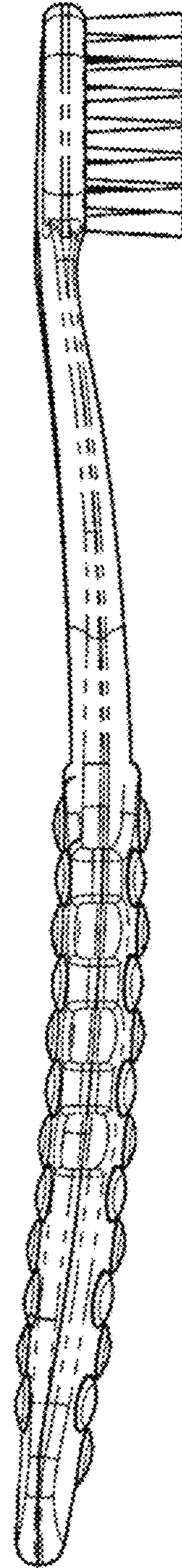


FIG. 4

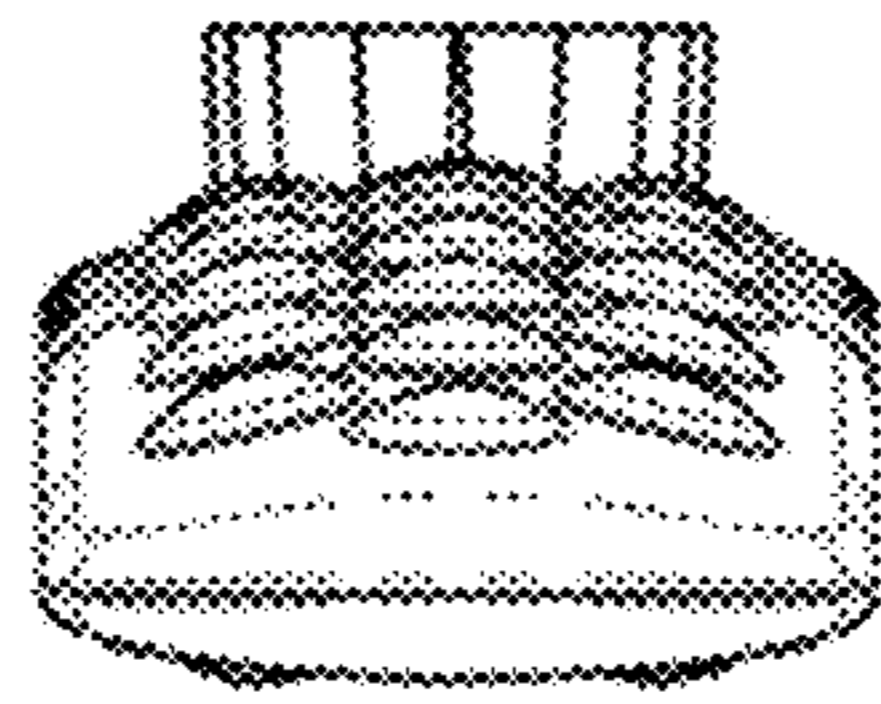


FIG. 5

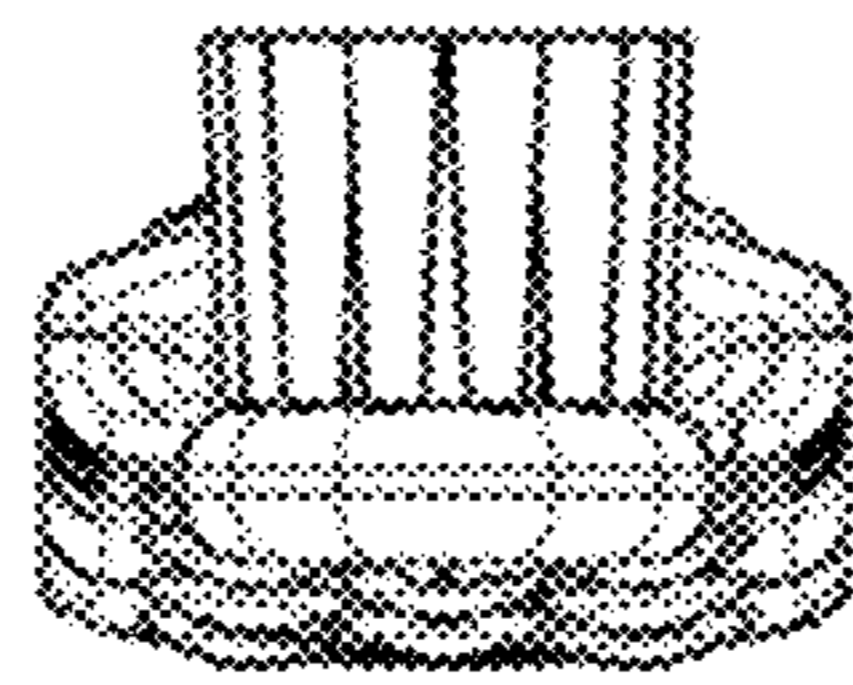


FIG. 6