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

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(45) **Date of Patent:** **** Apr. 24, 2018**

(54) **TOOTHBRUSH**

FOREIGN PATENT DOCUMENTS

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CN 2684634 5/2005
CN 100354102 12/2007

(Continued)

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Primary Examiner — Karen E Eldridge Powers

(73) Assignee: **Colgate-Palmolive Company**, New York, NY (US)

(57) **CLAIM**

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

(**) Term: **15 Years**

DESCRIPTION

(21) Appl. No.: **29/571,244**

(22) Filed: **Jul. 15, 2016**

(51) **LOC (11) Cl.** **04-02**

(52) **U.S. Cl.**
USPC **D4/104**

(58) **Field of Classification Search**
USPC D4/101, 102, 104, 105, 106, 107, 108,
D4/109, 110, 111, 112, 113; 15/167.1
CPC A46B 9/04; A46B 9/10
See application file for complete search history.

FIG. 1 is a front right perspective view of a toothbrush according to a first embodiment of the new design; FIG. 2 is a rear left perspective view thereof; FIG. 3 is a front elevation view thereof; FIG. 4 is a rear elevation view thereof; FIG. 5 is a left side elevation view thereof; FIG. 6 is a right side elevation view thereof; FIG. 7 is an enlarged top plan view thereof; FIG. 8 is an enlarged bottom plan view thereof; FIG. 9 is a close-up view of area 9 of FIG. 1; FIG. 10 is a front right perspective view of a toothbrush according to a second embodiment of the new design; FIG. 11 is a rear left perspective view thereof; FIG. 12 is a front elevation view thereof; FIG. 13 is a rear elevation view thereof; FIG. 14 is a left side elevation view thereof; FIG. 15 is a right side elevation view thereof; FIG. 16 is an enlarged top plan view thereof; FIG. 17 is an enlarged bottom plan view thereof; and, FIG. 18 is a close-up view of area 18 of FIG. 10. The dash-dot-dash broken lines shown in FIGS. 1, 9, 10, and 18 define the bounds of the enlarged detail views as well as the portions of the figures from which they were taken. The broken lines form no part of the claimed design.

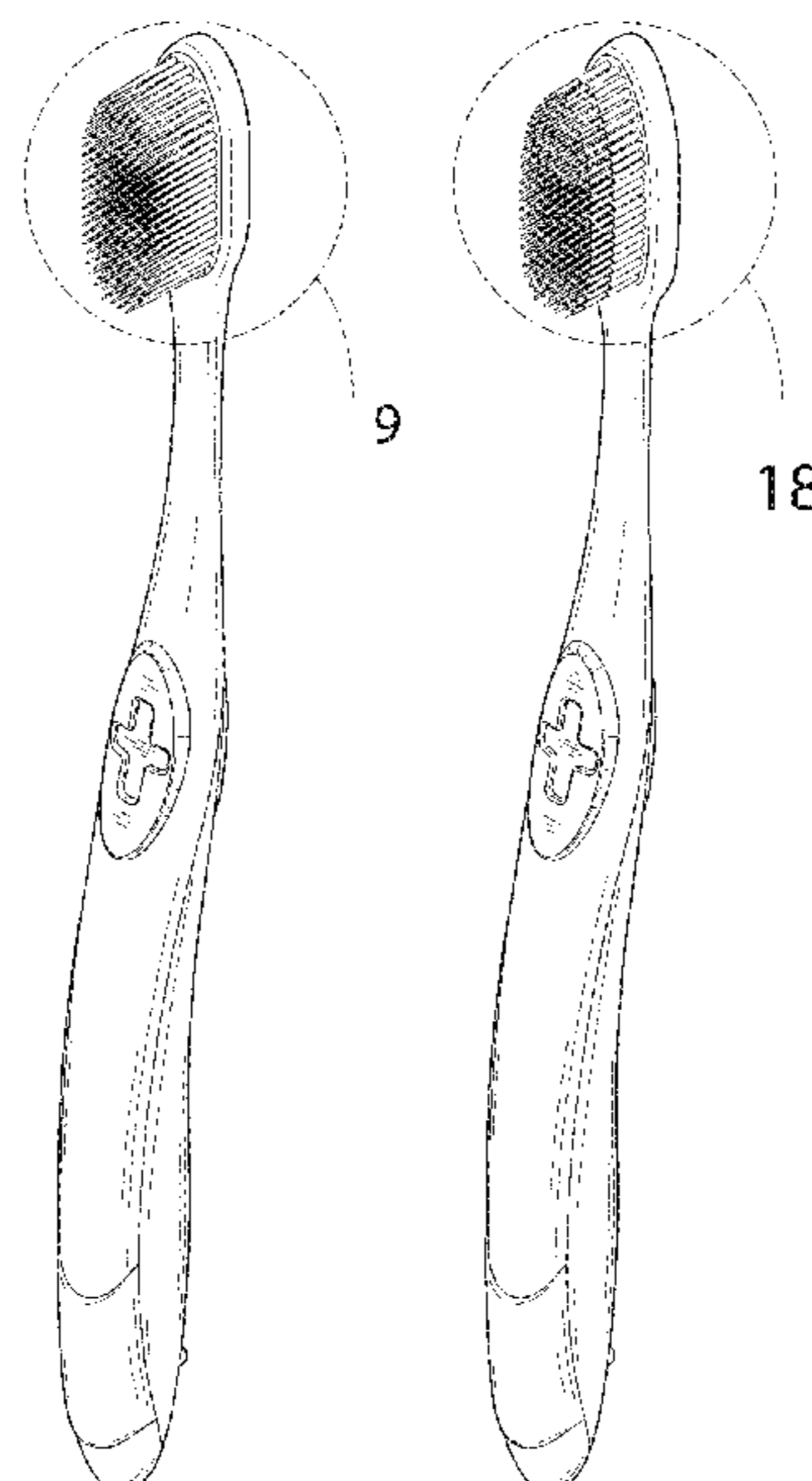
(56) **References Cited**

U.S. PATENT DOCUMENTS

3,917,420 A * 11/1975 Watson A46B 11/00
132/308
5,158,342 A 10/1992 Pai
5,908,038 A 6/1999 Bennett
5,930,860 A 8/1999 Shipp
5,987,688 A 11/1999 Roberts et al.
6,138,315 A 11/2000 Schmitt et al.
6,311,358 B1 11/2001 Soetewey et al.
6,402,494 B1 6/2002 Lanvers
6,463,618 B1 10/2002 Zimmer
6,641,764 B2 11/2003 Lanvers
6,886,207 B1 5/2005 Solanki

(Continued)

1 Claim, 10 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,966,093 B2 11/2005 Eliav et al.
 7,137,163 B2 11/2006 Gatzemeyer et al.
 7,137,166 B1* 11/2006 Kraemer A46B 5/0095
 15/143.1
 D545,062 S * 6/2007 Nagoya D4/113
 7,226,555 B2 6/2007 Weihrauch
 7,322,067 B2 1/2008 Hohlbein
 7,334,286 B2* 2/2008 Kayser A46B 5/0075
 15/143.1
 7,419,626 B2 9/2008 Mark
 7,503,093 B2 3/2009 Weihrauch
 D603,170 S * 11/2009 Wong D4/108
 7,908,699 B2 3/2011 Hohlbein et al.
 D656,734 S * 4/2012 Carpenter D4/104
 8,444,416 B2 5/2013 Chenvainu et al.
 8,534,769 B2* 9/2013 Loetscher A46B 3/00
 300/2
 8,549,691 B2* 10/2013 Moskovich A46B 5/02
 15/143.1
 8,584,301 B2 11/2013 Maissami
 8,677,541 B2 3/2014 Meadows et al.
 8,734,042 B2 5/2014 Hohlbein et al.
 8,997,299 B2* 4/2015 Gruber A46B 9/04
 15/106
 9,210,995 B2* 12/2015 Su A46B 9/04
 D751,296 S * 3/2016 Xi D4/104
 D765,417 S * 9/2016 Xi D4/104
 D770,184 S * 11/2016 Gabriele D4/104
 D774,310 S * 12/2016 Hauger D4/114
 2002/0004964 A1* 1/2002 Luchino A46B 3/00
 15/167.1
 2004/0170464 A1 9/2004 Polczynski
 2005/0272001 A1 12/2005 Blain et al.
 2010/0154154 A1* 6/2010 Garbers A46D 1/00
 15/167.1
 2011/0088188 A1* 4/2011 Ghodsi A46B 15/0055
 15/143.1
 2011/0247156 A1* 10/2011 Schmid A46B 15/0002
 15/105

2012/0272469 A1* 11/2012 Kwon A46B 3/04
 15/167.1

2013/0291320 A1 11/2013 Kirchhofer et al.
 2014/0082871 A1 3/2014 Su et al.
 2014/0123423 A1 5/2014 Morgott
 2015/0135456 A1 5/2015 Kirchhofer et al.

FOREIGN PATENT DOCUMENTS

CN 201029569 3/2008
 CN 201073079 6/2008
 CN 201500200 6/2009
 CN 201524149 7/2010
 CN 201691299 1/2011
 CN 201831193 5/2011
 CN 201831194 5/2011
 CN 201905438 7/2011
 CN 102763980 11/2012
 CN 202858192 4/2013
 CN 203028453 7/2013
 CN 203028478 7/2013
 CN 203152891 8/2013
 CN 103327847 9/2013
 CN 103385599 11/2013
 CN 103660126 3/2014
 CN 203467913 3/2014
 CN 203600517 5/2014
 CN 203776358 8/2014
 CN 203969611 12/2014
 CN 103254401 3/2015
 CN 204181157 3/2015
 CN 103242644 4/2015
 CN 204378291 6/2015
 CN 204393668 6/2015
 CN 303954601 * 12/2016
 CN 303954615 * 12/2016
 CN 304000521 * 1/2017
 DE 10303548 8/2004
 EP 2144529 7/2015
 WO WO 00/64307 11/2000
 WO WO 2009/072747 6/2009
 WO WO 2011/006346 1/2011

* cited by examiner

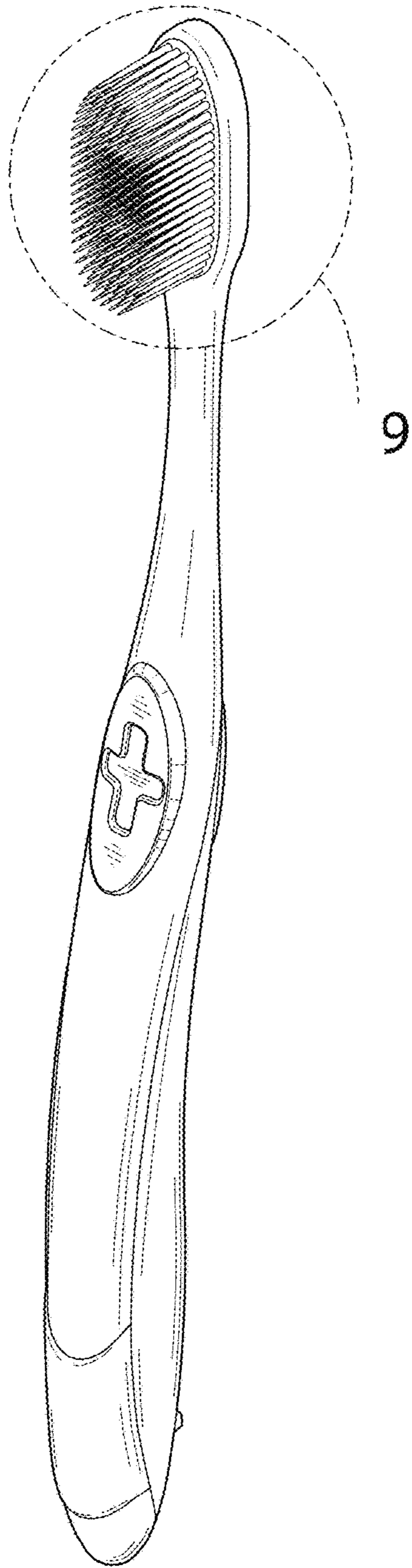


FIG. 1

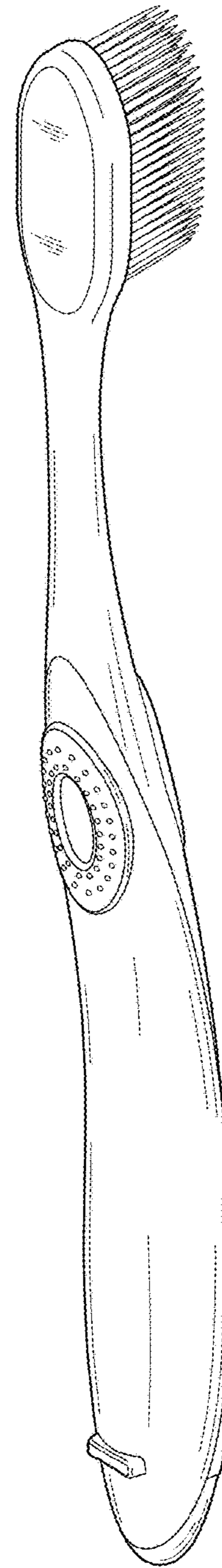


FIG. 2

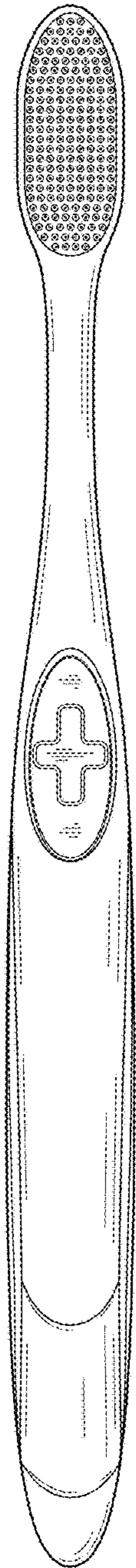


FIG. 3

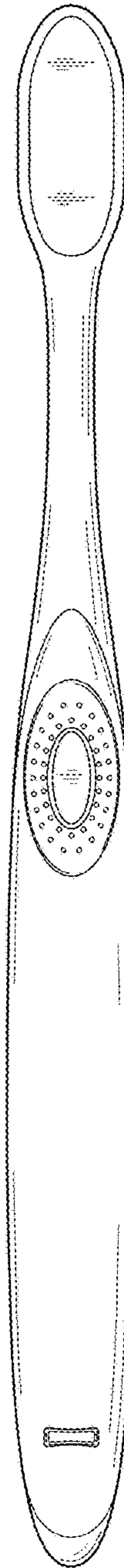


FIG. 4

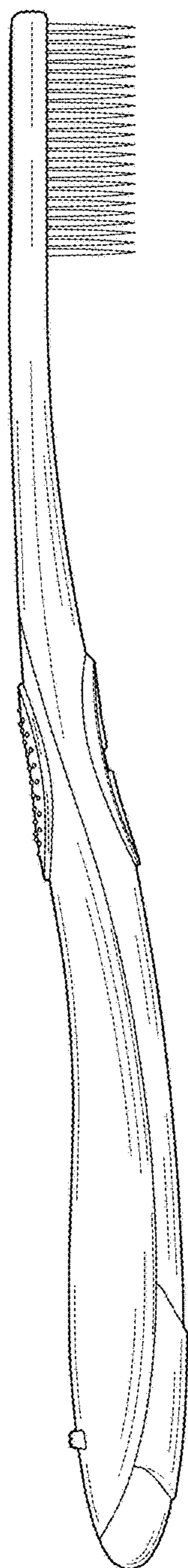


FIG. 5

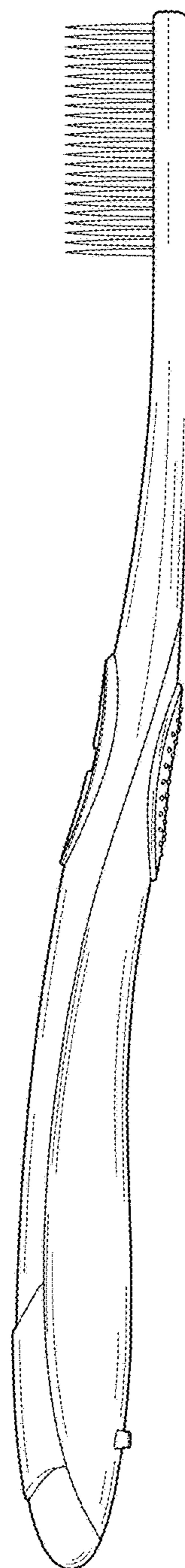


FIG. 6

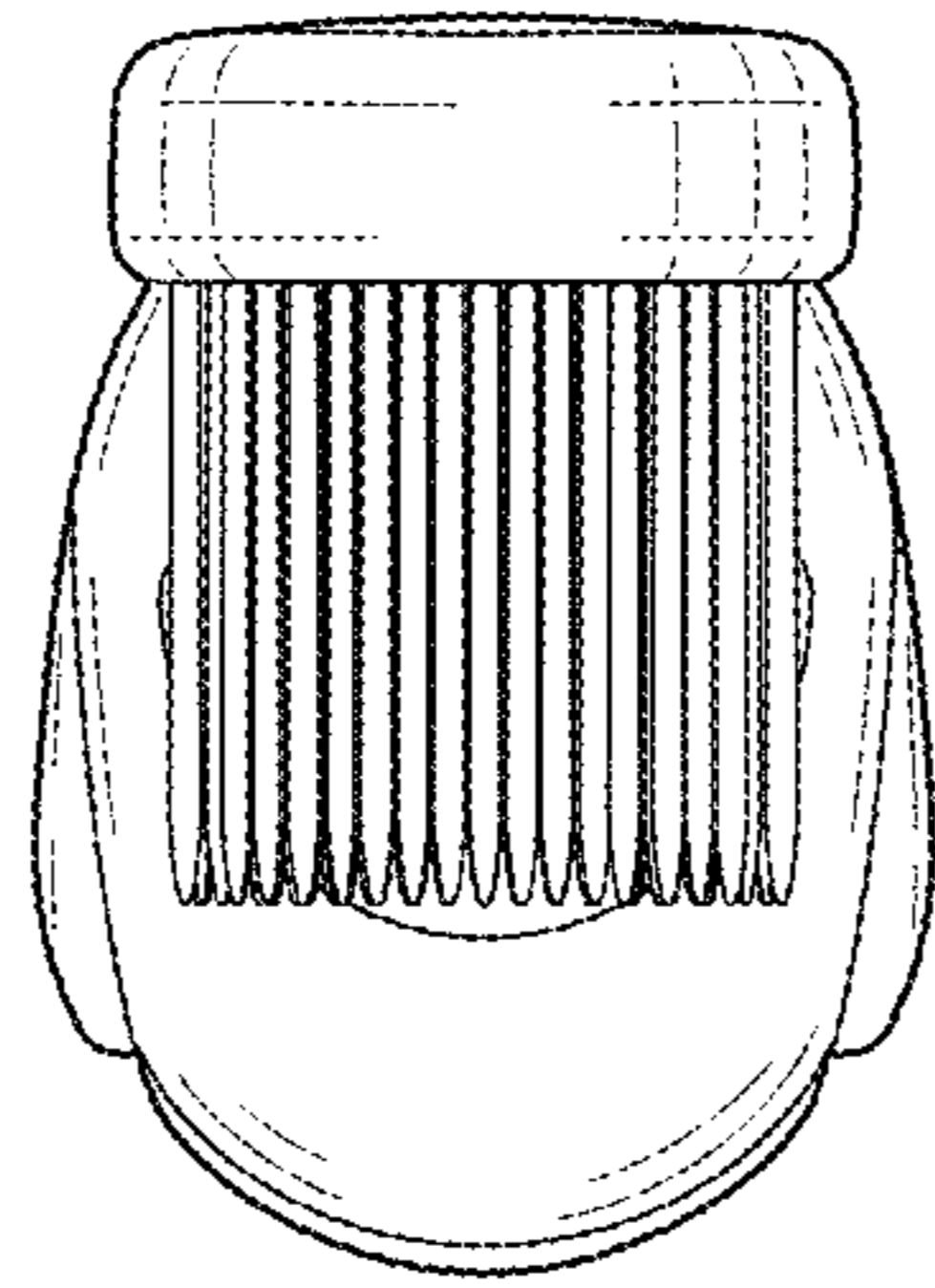


FIG. 7

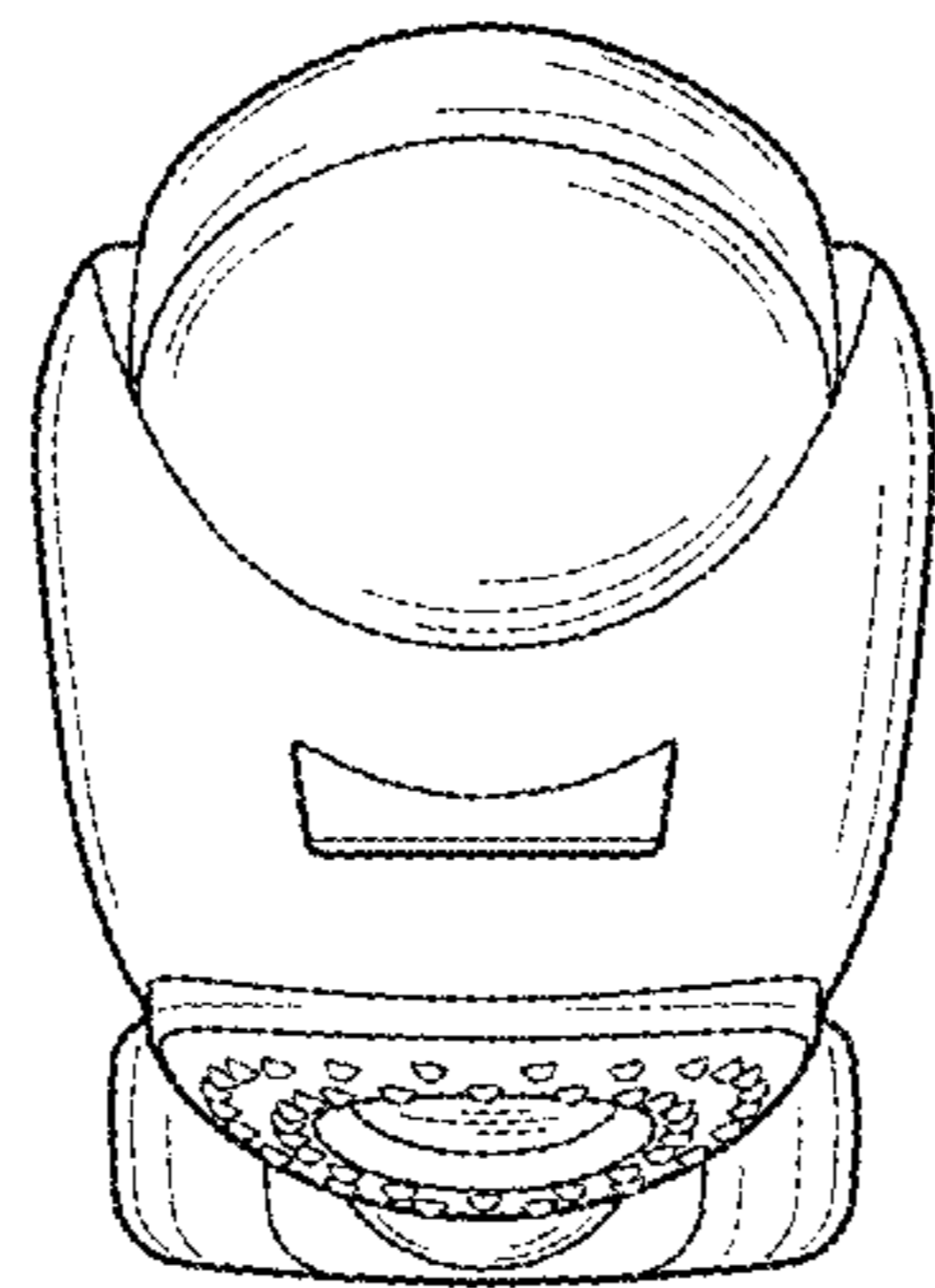


FIG. 8

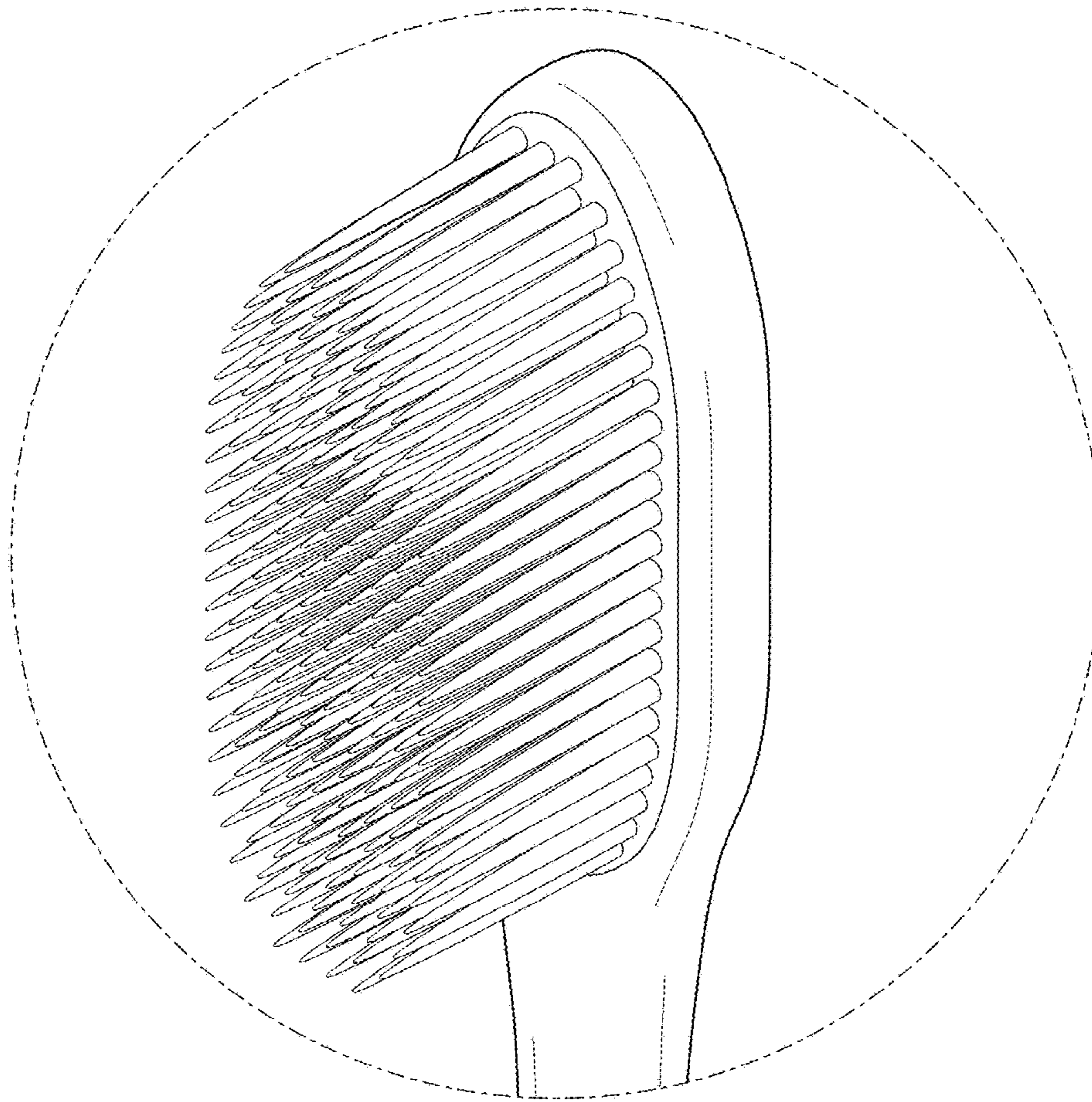


FIG. 9

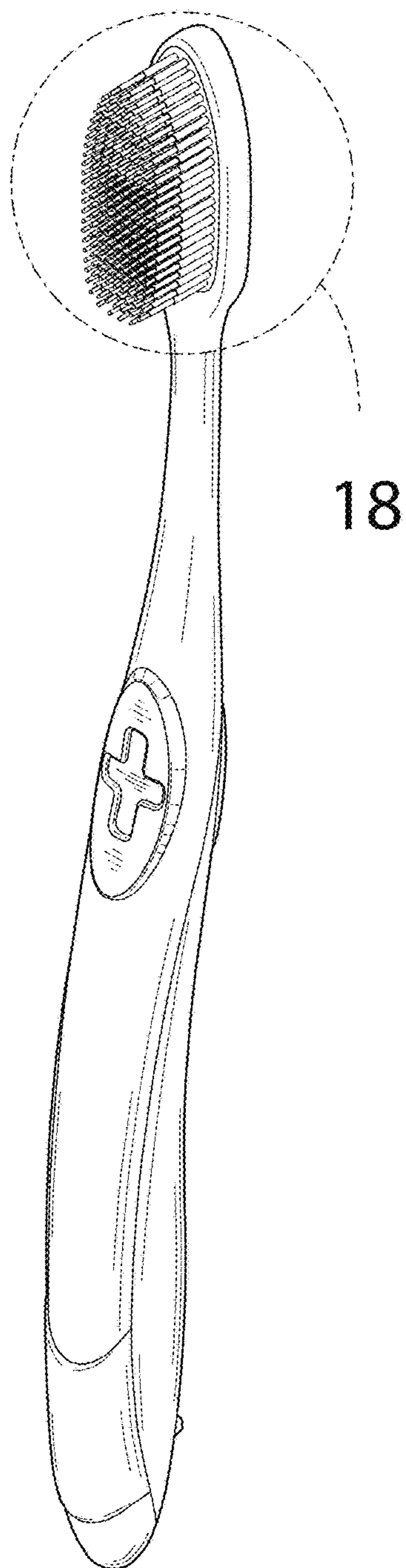


FIG. 10

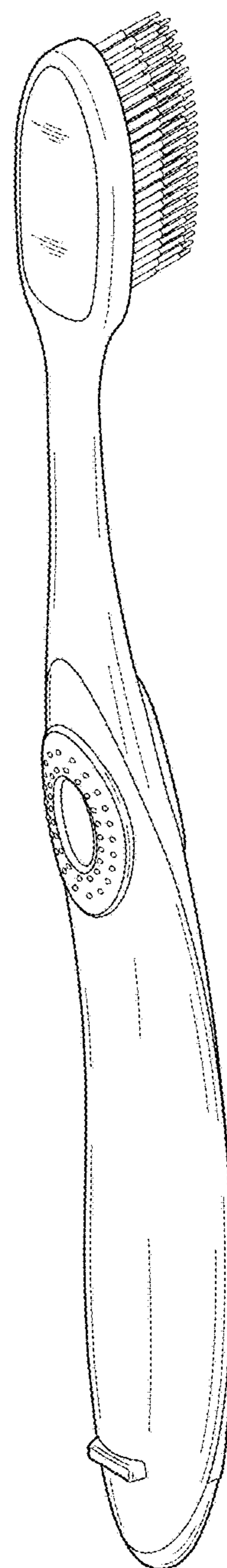


FIG. 11

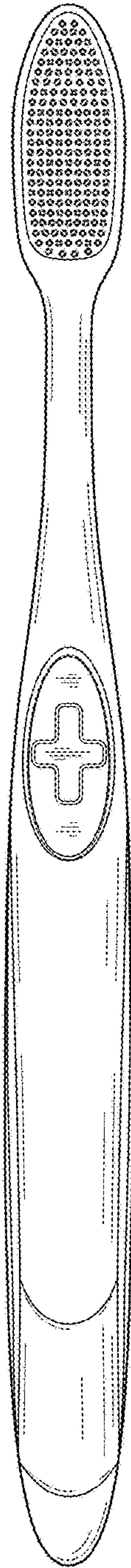


FIG. 12

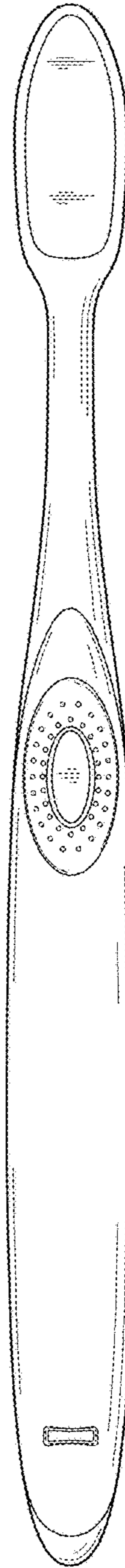


FIG. 13

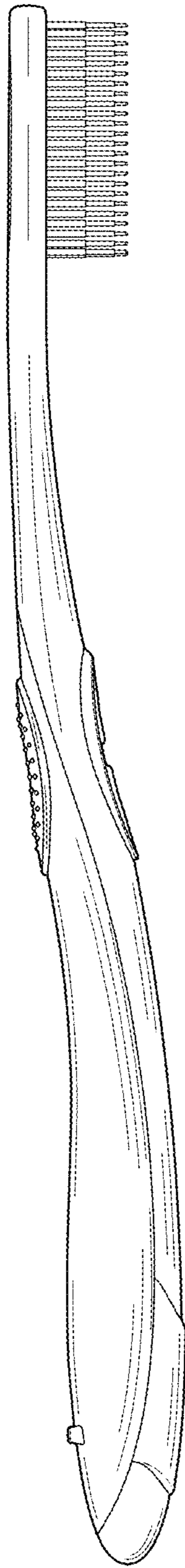


FIG. 14

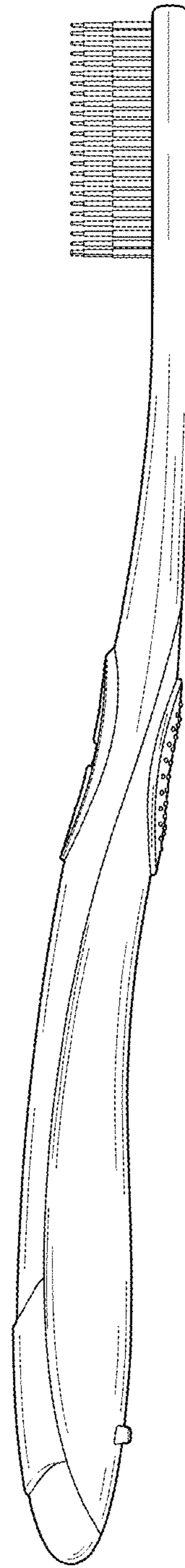


FIG. 15

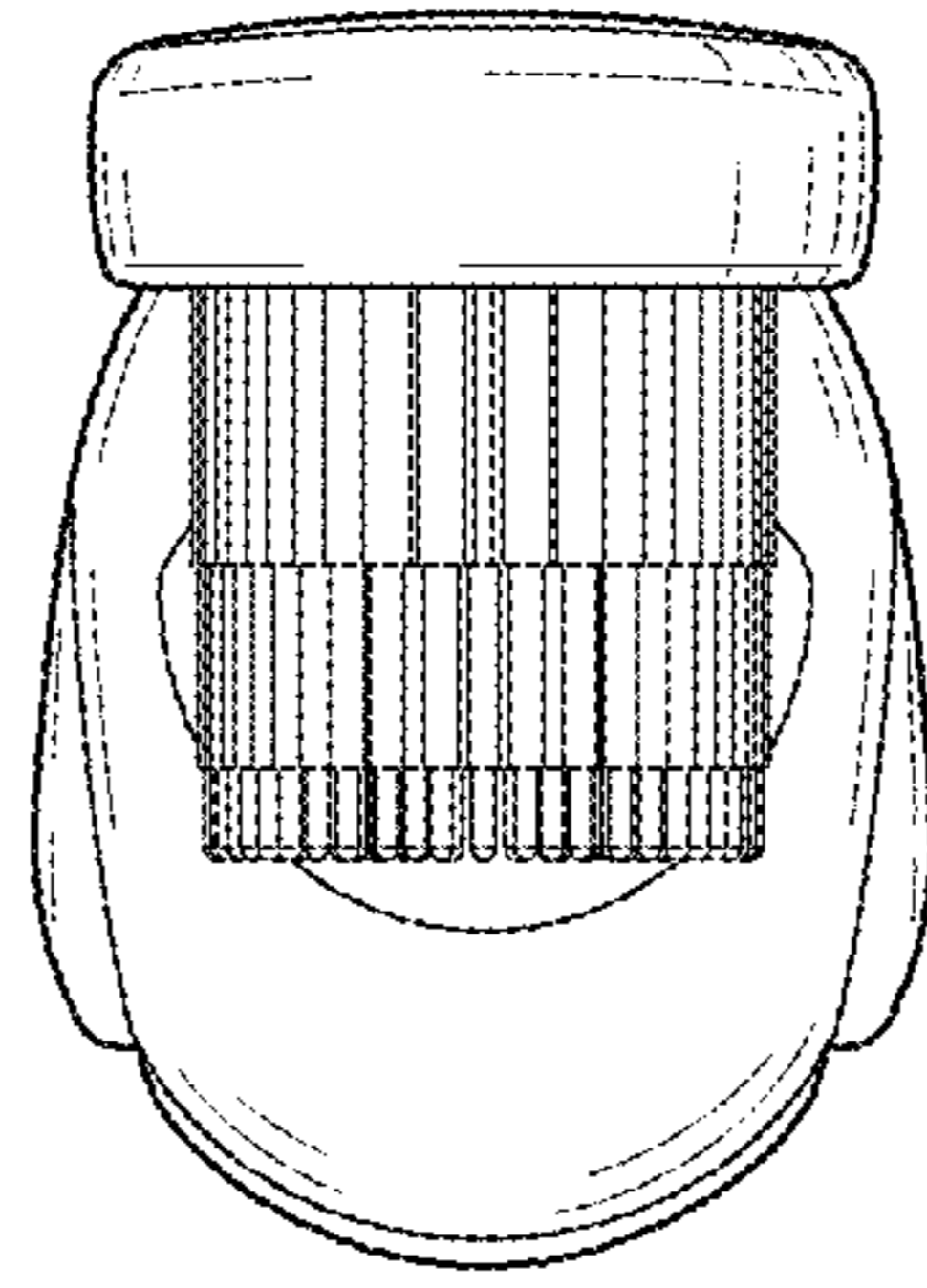


FIG. 16

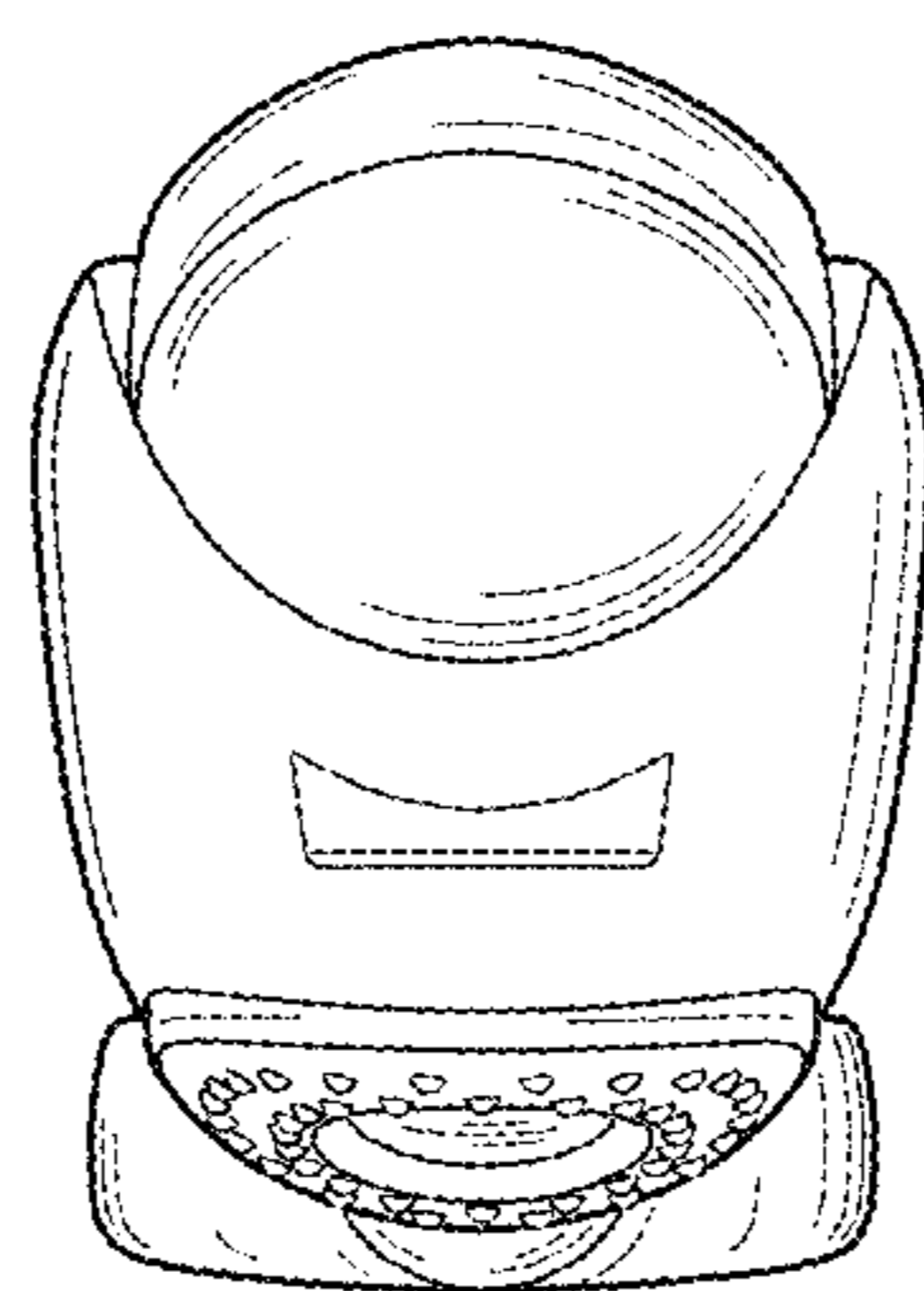


FIG. 17

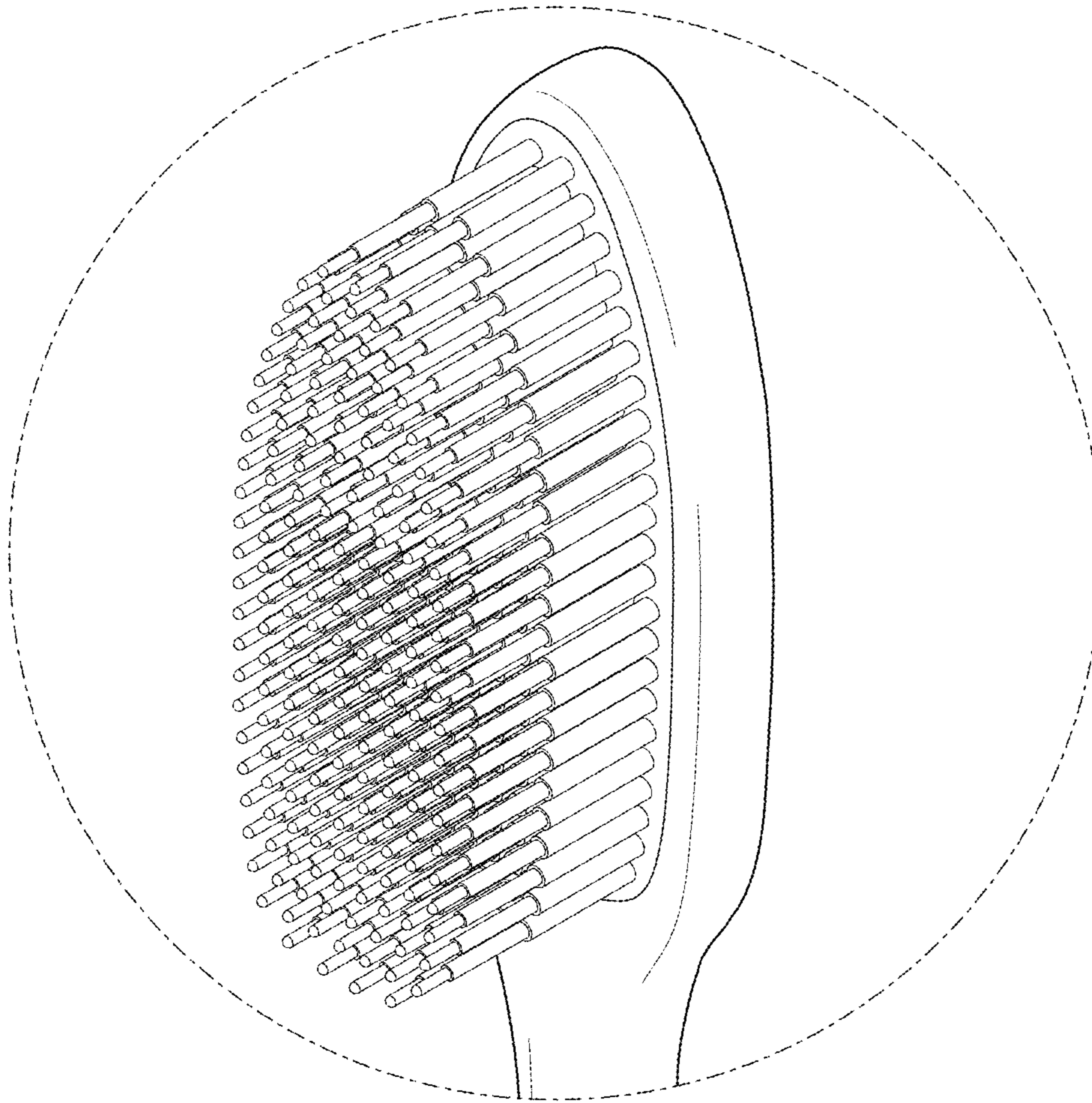


FIG. 18