

US00D893881S

(12) **United States Design Patent** (10) **Patent No.:** **US D893,881 S**  
**Okai et al.** (45) **Date of Patent:** **\*\* Aug. 25, 2020**

(54) **ORAL CARE APPARATUS**  
(71) Applicant: **Colgate-Palmolive Company**, New York, NY (US)  
(72) Inventors: **Takahide Okai**, Highland Park, NJ (US); **GuanMin Sun**, XiaMen (CN)  
(73) Assignee: **Colgate-Palmolive Company**, New York, NY (US)

5,987,681 A 11/1999 Hahn et al.  
6,090,488 A 7/2000 Kweon et al.  
6,464,920 B1 10/2002 Kraemer et al.  
6,599,048 B2 7/2003 Kuo  
D479,046 S \* 9/2003 Winkler ..... D4/101  
(Continued)

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

FOREIGN PATENT DOCUMENTS  
CN 100364472 1/2008  
CN 303857368 6/2016  
CN 304124146 5/2017  
CN 304276474 9/2017  
(Continued)

(21) Appl. No.: **29/626,447**

*Primary Examiner* — Wan Laymon  
*Assistant Examiner* — Clint A Samuel

(22) Filed: **Nov. 17, 2017**

(51) **LOC (12) Cl.** ..... **04-02**

(57) **CLAIM**

(52) **U.S. Cl.**  
USPC ..... **D4/102**

The ornamental design for an oral care apparatus, as shown and described.

(58) **Field of Classification Search**  
USPC ..... D4/100, 101, 102, 104, 105, 108, 110, D4/111; D24/107, 108, 133, 152, 176; 15/167.1  
CPC ..... A46B 15/00; A46B 15/047; A46B 15/048; A46B 15/0071; A46B 5/00; A46B 5/02; A46B 5/21; A46B 5/023; A46B 5/026; A46B 5/028; A46B 5/0016; A46B 5/0095; A46B 2200/10; A46B 2200/108; A46B 2200/1066; A46B 2200/1073; A46B 2200/1086; A46B 9/04; A46B 9/10; A46B 9/045; A61C 17/16; A61C 17/22; A61C 17/26; A61C 17/225; A61C 3/00

**DESCRIPTION**

FIG. 1 is a front right perspective view of an oral care apparatus according to a first embodiment of the new design; FIG. 2 is a front view thereof; FIG. 3 is a rear view thereof; FIG. 4 is a right side view thereof; FIG. 5 is a left side view thereof; FIG. 6 is an enlarged top view thereof; FIG. 7 is an enlarged bottom view thereof; FIG. 8 is a front right perspective view of an oral care apparatus according to a second embodiment of the new design; FIG. 9 is a front view thereof; FIG. 10 is a rear view thereof; FIG. 11 is a right side view thereof; FIG. 12 is a left side view thereof; FIG. 13 is an enlarged top view thereof; and, FIG. 14 is an enlarged bottom view thereof. The broken lines in the drawings illustrate portions of the article that form no part of the claimed design.

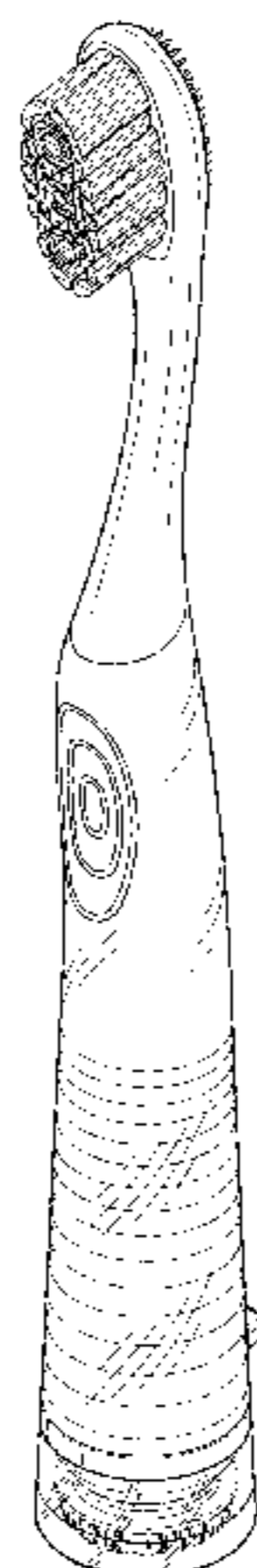
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,989,287 A 2/1991 Scherer  
5,054,154 A 10/1991 Schiffer et al.  
D361,433 S \* 8/1995 Yang ..... D4/101  
5,697,117 A 12/1997 Craft  
5,974,615 A 11/1999 Schwarz-Hartmann et al.

**1 Claim, 8 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

6,764,142 B2 7/2004 Kwon  
 6,802,097 B2 10/2004 Haefliger et al.  
 6,821,119 B2 11/2004 Shortt et al.  
 6,836,917 B2 1/2005 Blaustein et al.  
 6,895,625 B2 5/2005 Lev et al.  
 6,920,659 B2 7/2005 Cacka et al.  
 6,968,590 B2 11/2005 Ponzini  
 D534,725 S \* 1/2007 Vu ..... D4/101  
 7,162,764 B2 1/2007 Drossler et al.  
 7,240,390 B2 7/2007 Pfenniger et al.  
 7,419,225 B2 9/2008 Fischer et al.  
 7,636,976 B2 12/2009 Banning  
 7,761,947 B2 7/2010 Blaustein et al.  
 7,765,629 B2 8/2010 Kressner  
 7,845,041 B2 12/2010 Gatezemeyer et al.  
 7,975,344 B2 7/2011 Braun et al.  
 D646,896 S 10/2011 Lee et al.  
 D647,306 S 10/2011 Lee et al.  
 D647,702 S 11/2011 Lee et al.  
 8,060,970 B2 11/2011 Solanki  
 8,089,227 B2 1/2012 Baertschi et al.  
 8,172,337 B2 5/2012 Kwon et al.  
 D664,360 S 7/2012 Lee et al.  
 8,209,808 B2 7/2012 Kressner  
 8,288,970 B2 10/2012 Miller et al.  
 8,333,436 B2 12/2012 Kwon et al.  
 D676,243 S 2/2013 Lee et al.  
 D676,244 S 2/2013 Lee et al.  
 8,418,300 B2 4/2013 Miller et al.  
 D683,138 S 5/2013 Lee et al.  
 D683,966 S 6/2013 Lee et al.  
 8,499,851 B2 8/2013 Hata  
 8,512,611 B2 8/2013 Kang et al.  
 8,544,132 B2 10/2013 Gatzemeyer et al.  
 D693,127 S \* 11/2013 Xi ..... D4/107  
 8,584,299 B2 11/2013 Chan et al.  
 8,590,092 B2 11/2013 Dickie  
 8,595,881 B2 12/2013 Fritsch  
 8,601,628 B2 12/2013 Barman  
 8,656,548 B2 2/2014 Jungnickel et al.  
 D701,388 S \* 3/2014 Chuanzhou ..... D4/101  
 8,671,492 B2 3/2014 Kressner  
 8,671,493 B2 \* 3/2014 Hilscher ..... A61C 17/22  
 15/22.1  
 8,695,143 B2 4/2014 Kloster  
 8,701,235 B2 4/2014 Kressner  
 8,793,829 B2 8/2014 Shimoyama et al.  
 8,806,691 B2 8/2014 Iwahori et al.  
 8,863,344 B2 10/2014 Kloster  
 D719,737 S \* 12/2014 Adriaenssen ..... D4/101  
 8,938,839 B2 1/2015 Kitigawa et al.  
 9,009,902 B2 4/2015 Kitigawa et al.  
 9,084,659 B2 7/2015 Bovenkamp  
 9,204,948 B2 12/2015 Kloster  
 D752,868 S \* 4/2016 McGarry ..... D4/101  
 D766,581 S \* 9/2016 Bloch ..... D4/101  
 D767,895 S \* 10/2016 Stebila ..... D4/101  
 D776,436 S 1/2017 Xi et al.  
 D776,937 S 1/2017 Xi et al.  
 D777,444 S \* 1/2017 Sedic ..... D4/101  
 9,561,092 B2 2/2017 Sauer et al.  
 D780,456 S 3/2017 Shigeno et al.  
 9,655,435 B2 5/2017 Kraemer et al.  
 D788,469 S \* 6/2017 McGarry ..... D4/101  
 D791,485 S \* 7/2017 McGarry ..... D4/101  
 D795,590 S \* 8/2017 Sedic ..... D4/101  
 D811,094 S \* 2/2018 Sedic ..... D4/111  
 D814,195 S \* 4/2018 Sikora ..... D4/102  
 D817,000 S \* 5/2018 Sedic ..... D4/101  
 D817,001 S \* 5/2018 Sedic ..... D4/101  
 D819,337 S \* 6/2018 Yuan ..... D4/101  
 D819,973 S \* 6/2018 Greve ..... D4/101  
 D819,974 S \* 6/2018 Johansson ..... D4/101  
 D820,599 S \* 6/2018 Park ..... D4/101  
 D824,677 S \* 8/2018 Tseng ..... D4/101

D840,158 S 2/2019 Xi et al.  
 D840,692 S 2/2019 Xi et al.  
 D858,105 S \* 9/2019 Okai ..... D4/101  
 10,449,022 B2 \* 10/2019 Okai ..... A46B 9/028  
 10,582,990 B2 \* 3/2020 Dai ..... A61C 17/222  
 10,603,147 B2 \* 3/2020 Bloch ..... A46B 5/0095  
 2002/0120991 A1 9/2002 Cacka et al.  
 2002/0129454 A1 9/2002 Hilscher et al.  
 2008/0216258 A1 9/2008 Kressner et al.  
 2009/0013489 A1 1/2009 Binet et al.  
 2009/0083924 A1 \* 4/2009 Shepherd ..... A46B 5/0095  
 15/105  
 2010/0043156 A1 2/2010 Kressner  
 2010/0106336 A1 4/2010 Hwang et al.  
 2010/0170051 A1 7/2010 Kressner  
 2010/0223746 A1 9/2010 Mueller  
 2010/0251493 A1 10/2010 Sale et al.  
 2010/0313371 A1 12/2010 Kaczmarek  
 2013/0247311 A1 \* 9/2013 Dickie ..... A46B 5/0062  
 15/22.1  
 2014/0076633 A1 3/2014 Terracina et al.  
 2014/0115801 A1 5/2014 Haynes et al.  
 2014/0173838 A1 \* 6/2014 Dickie ..... A46B 9/04  
 15/22.1  
 2014/0304932 A1 \* 10/2014 Patel ..... A46B 15/0087  
 15/167.1  
 2014/0310900 A1 \* 10/2014 Curry ..... A46B 9/04  
 15/167.1  
 2015/0020324 A1 \* 1/2015 Schaefer ..... A61C 17/222  
 15/22.1  
 2015/0113747 A1 4/2015 May et al.  
 2015/0044629 A1 5/2015 Wang et al.  
 2015/0164625 A1 6/2015 Kressner  
 2015/0173502 A1 \* 6/2015 Sedic ..... A46B 9/04  
 15/22.1  
 2015/0230598 A1 8/2015 Bresselschmidt et al.  
 2015/0335145 A1 11/2015 Bloch et al.  
 2015/0335411 A1 \* 11/2015 Dickie ..... A46B 9/04  
 15/22.1  
 2016/0000542 A1 \* 1/2016 Yoshida ..... A61C 17/222  
 15/22.1  
 2016/0081465 A1 3/2016 Metter  
 2016/0143718 A1 5/2016 Serval et al.  
 2017/0128179 A1 \* 5/2017 Sedic ..... A46B 9/04  
 2017/0151044 A1 6/2017 Okai  
 2017/0156835 A1 \* 6/2017 Schaefer ..... A61C 17/222  
 2017/0188836 A1 7/2017 Xi et al.  
 2017/0273769 A1 9/2017 Dengler et al.  
 2018/0008388 A1 \* 1/2018 Lee ..... A46B 13/023  
 2018/0020819 A1 \* 1/2018 Steckling ..... A46B 15/0008  
 15/167.1  
 2018/0021116 A1 \* 1/2018 Storkel ..... A61C 17/222  
 15/167.1  
 2018/0140404 A1 \* 5/2018 Schaefer ..... A61C 17/22  
 2018/0168332 A1 \* 6/2018 Wagner ..... F21V 11/00  
 2019/0320786 A1 \* 10/2019 Schafer ..... A46B 15/0046  
 2020/0000342 A1 \* 1/2020 Xi ..... A61B 1/24  
 2020/0000566 A1 \* 1/2020 Wagner ..... A61C 17/032

FOREIGN PATENT DOCUMENTS

EM 002012328-0002 3/2012  
 EM 001333496-0001 6/2012  
 EM 002218651-0001 4/2013  
 EM 002218651-0002 4/2013  
 JP D1255016 11/2005  
 JP D1339684 9/2008  
 KR 3006273830000 1/2012  
 WO WO200132053 5/2001  
 WO WO2006062187 6/2006  
 WO WO2008053441 5/2008  
 WO WO2010119688 10/2010  
 WO WO2010142098 12/2010  
 WO WO2013001462 3/2013  
 WO WO2016174251 11/2016  
 WO WO2017029469 2/2017

\* cited by examiner

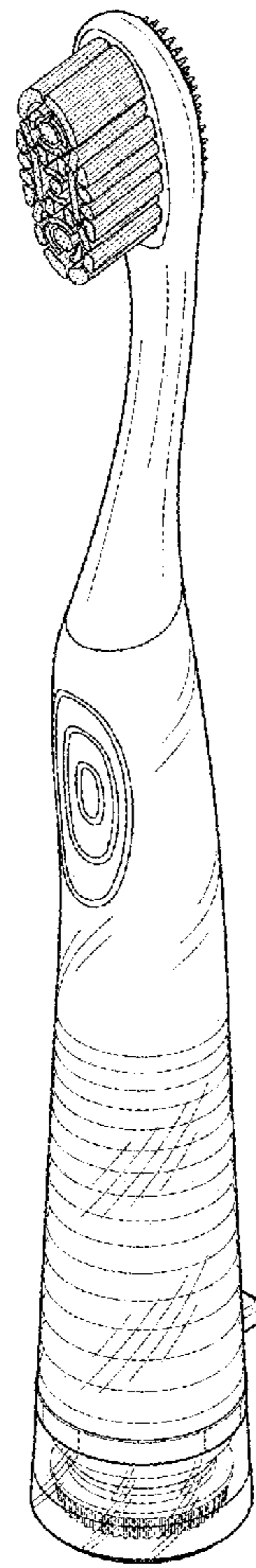


FIG. 1

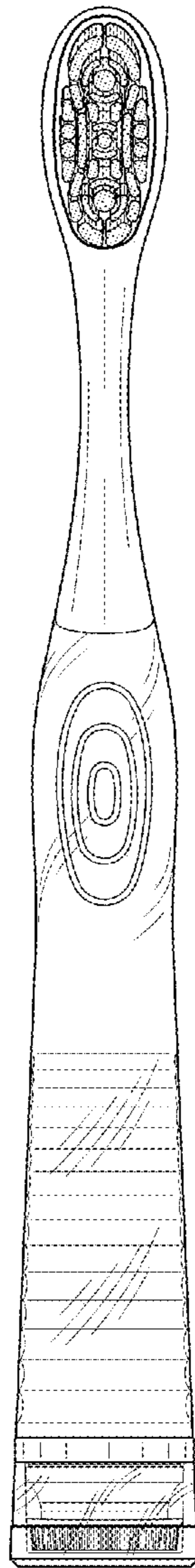


FIG. 2

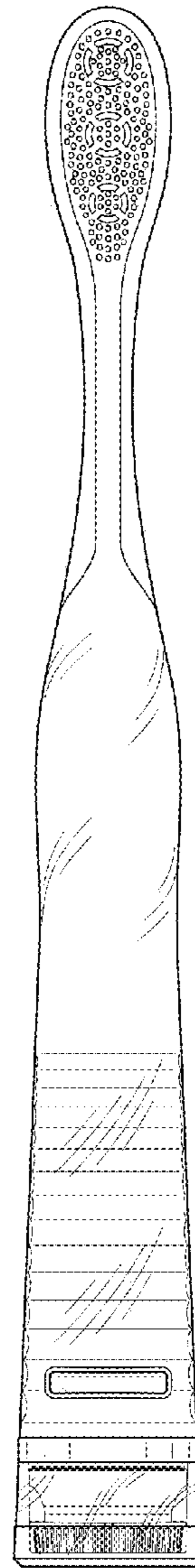


FIG. 3

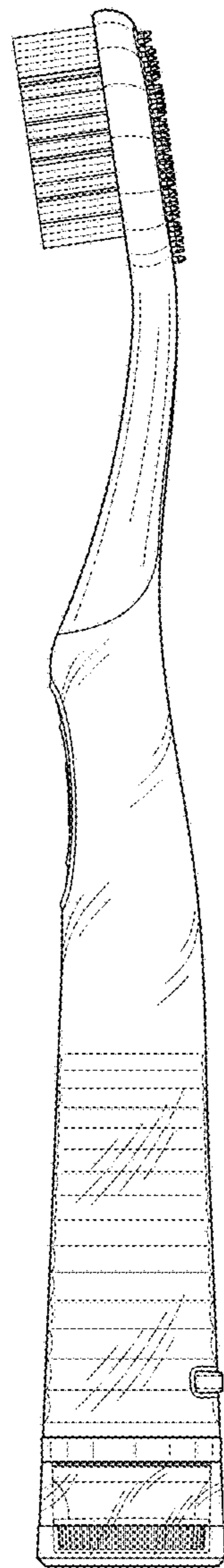


FIG. 4

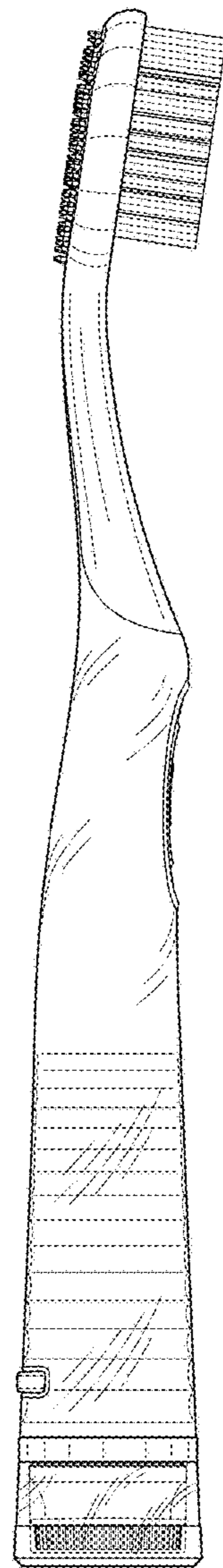


FIG. 5

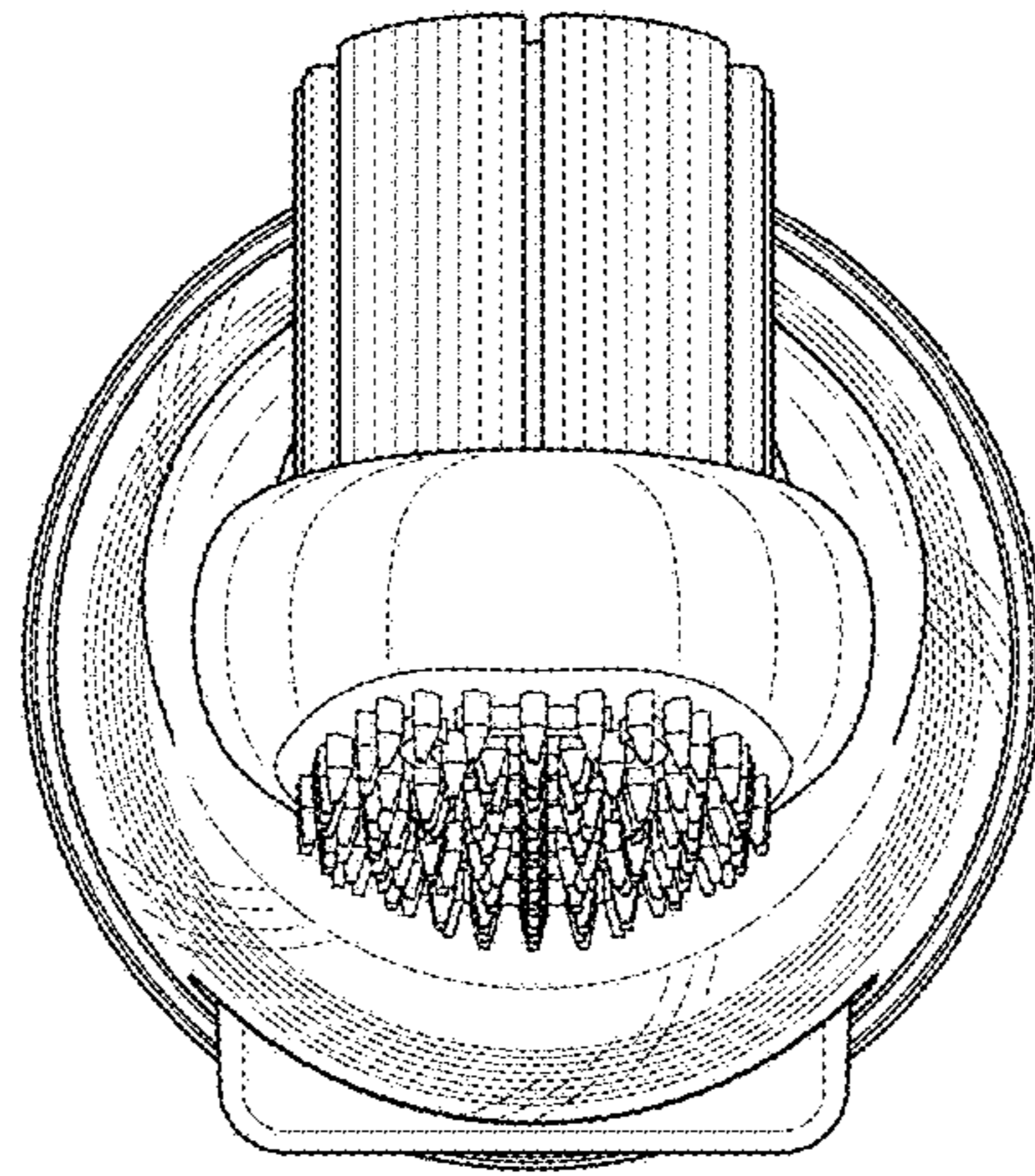


FIG. 6

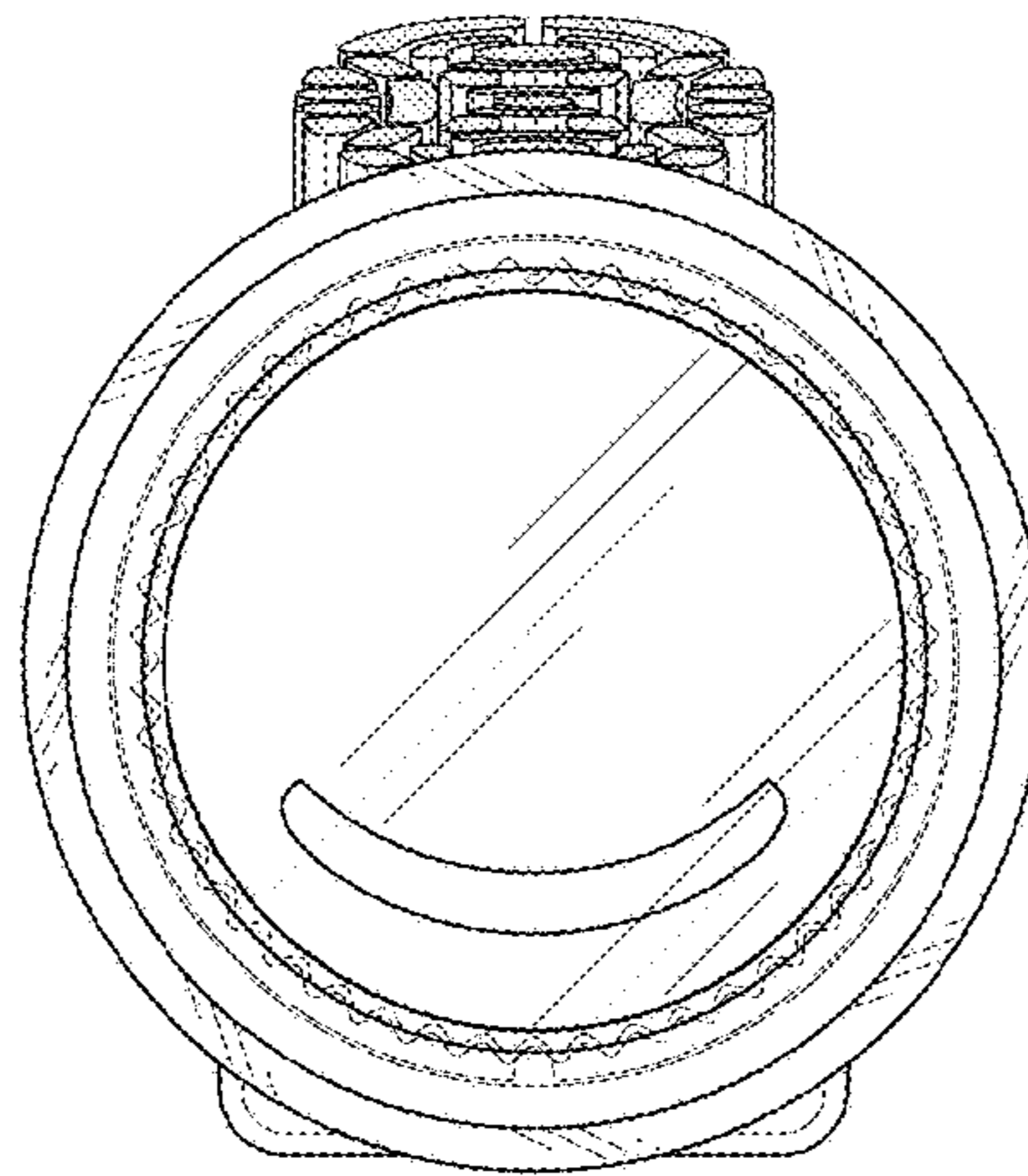


FIG. 7

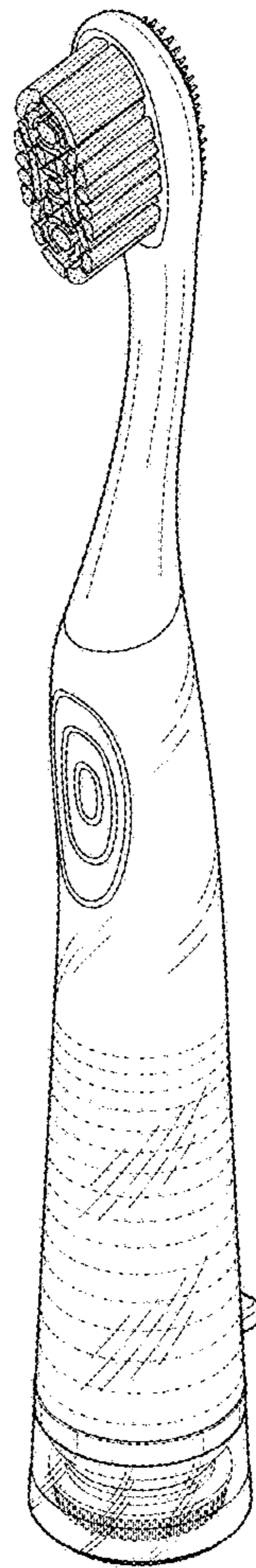


FIG. 8

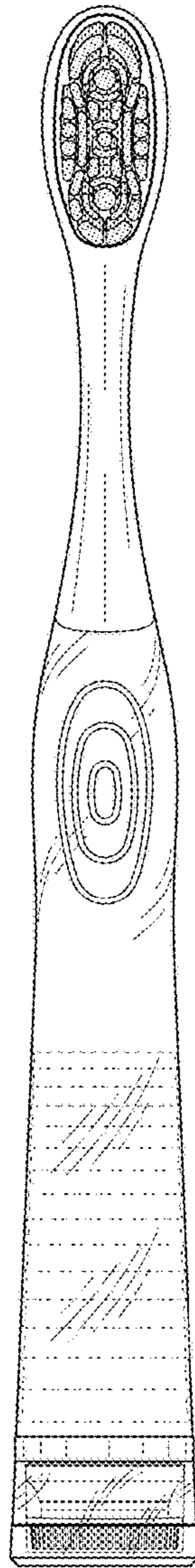


FIG. 9

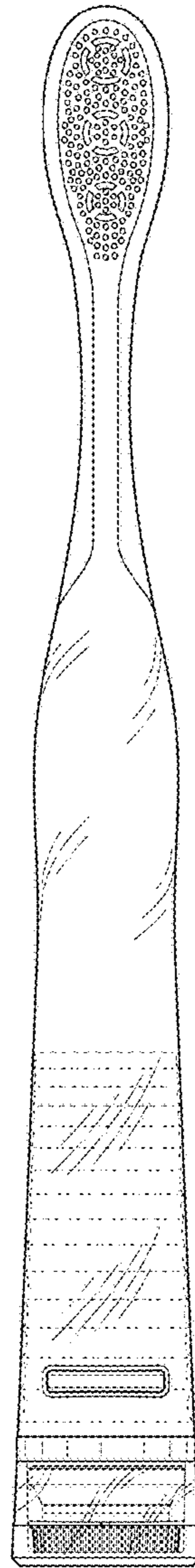


FIG. 10



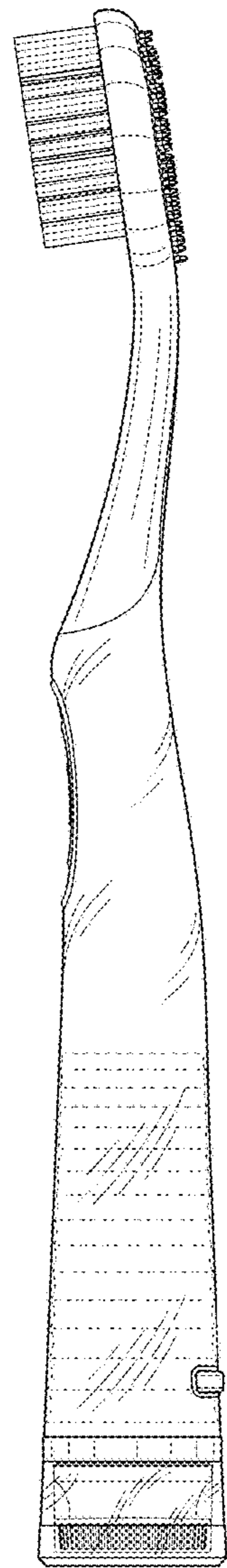


FIG. 11

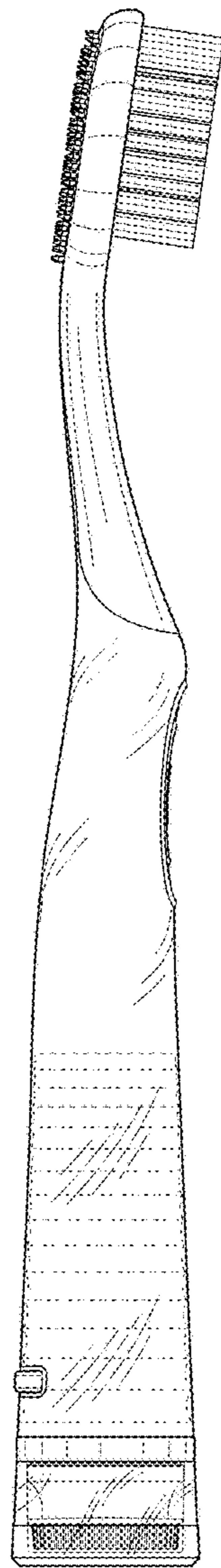


FIG. 12

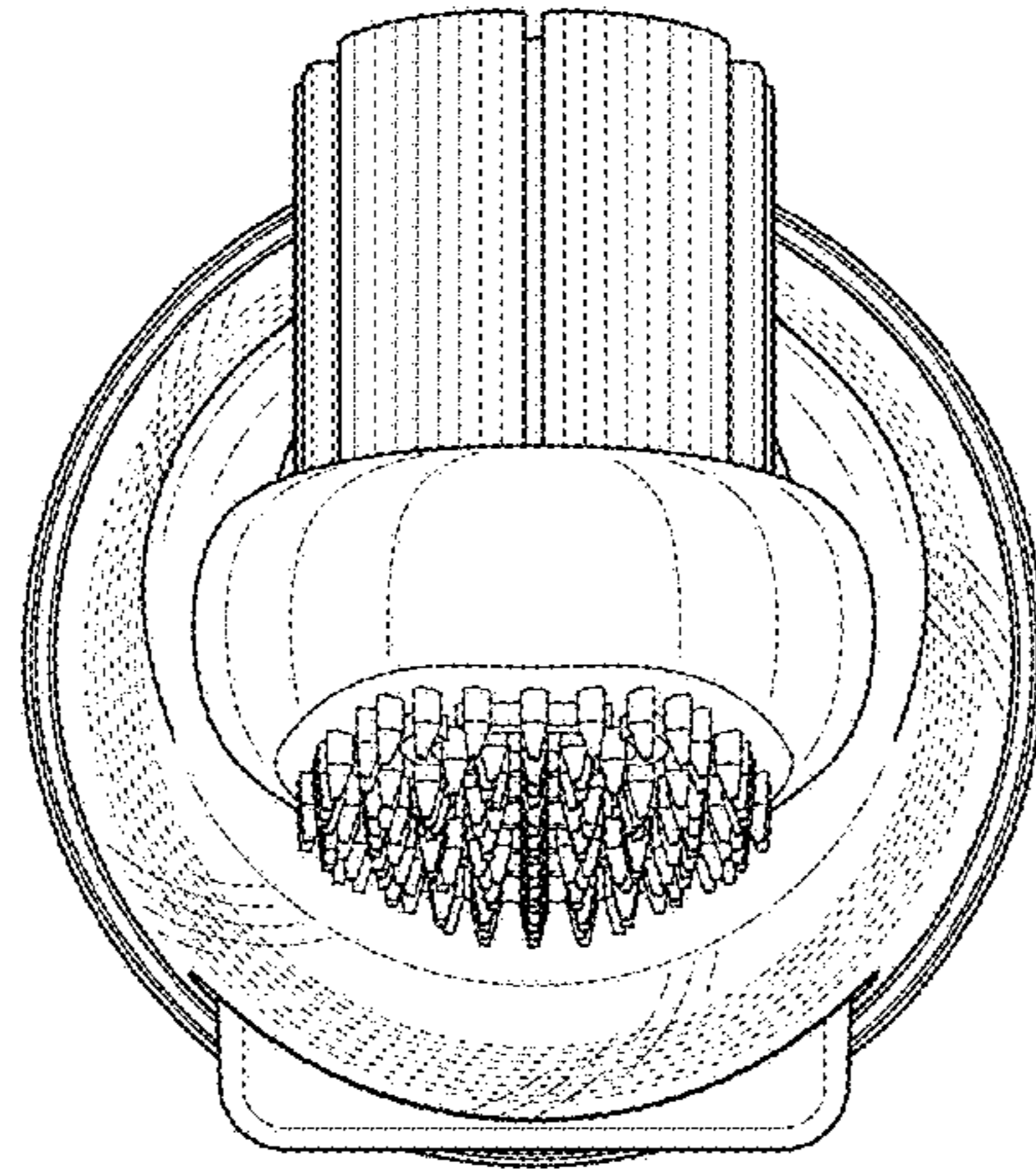


FIG. 13

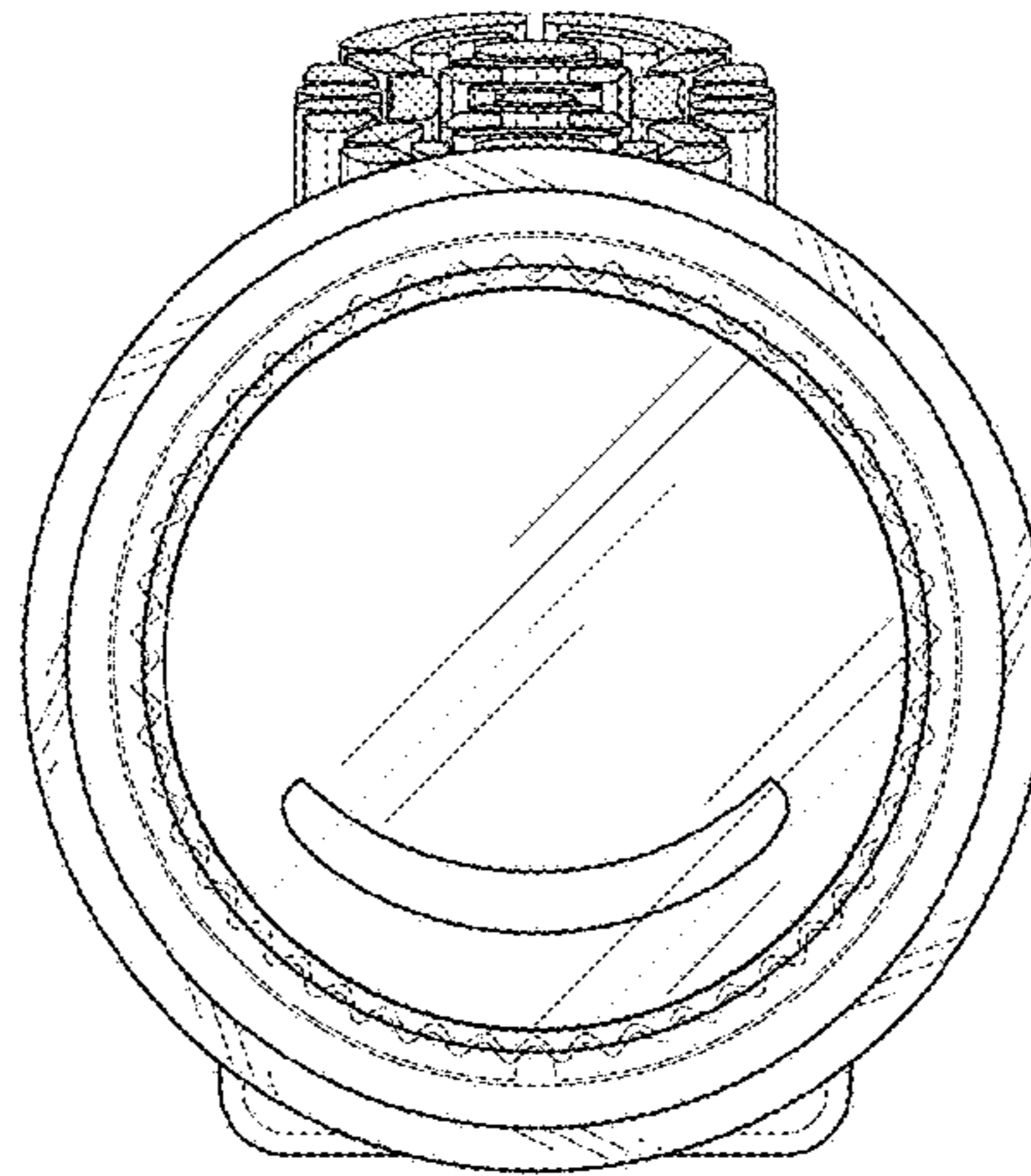


FIG. 14