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

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(54) **DENTAL CLEANING HEAD**

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(73) Assignee: **Gruber, LLC**, Great Neck, NY (US)

(\*\*) Term: **14 Years**

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**Related U.S. Application Data**

(63) Continuation-in-part of application No. 29/403,449, filed on Oct. 6, 2011, now Pat. No. Des. 740,033, and a continuation-in-part of application No. 29/391,568, filed on May 10, 2011, now Pat. No. Des. 726,418, and a continuation-in-part of application No. 13/091,063, filed on Apr. 20, 2011, now Pat. No. 8,549,693.

(51) **LOC (10) Cl.** ..... **04-02**

(52) **U.S. Cl.**  
USPC ..... **D4/104; D4/136**

(58) **Field of Classification Search**  
USPC ..... D4/101, 104–113, 130, 136; 15/110, 15/167.1, 167.2, 176.1, 176.4, 176.5, 15/186–188; 132/308–311; 601/139, 141, 601/142; 606/161

CPC ..... A46B 1/00; A46B 3/00; A46B 3/005; A46B 3/04; A46B 3/20; A46B 3/22; A46B 9/00; A46B 9/005; A46B 9/028; A46B 9/04; A46B 9/045; A46B 15/0081; A46B 2200/1026; A46B 2200/1066; A46B 2200/1073; A46B 2200/1086; A61B 17/244  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

147,410 A 2/1874 La Fonte  
323,305 A 7/1885 Evans

(Continued)

**FOREIGN PATENT DOCUMENTS**

CA 2334841 12/1999  
DE 3621815 1/1988

(Continued)

**OTHER PUBLICATIONS**

International Search Report and Written Opinion of the International Searching Authority for PCT/US2012/032943 dated Oct. 25, 2012.  
(Continued)

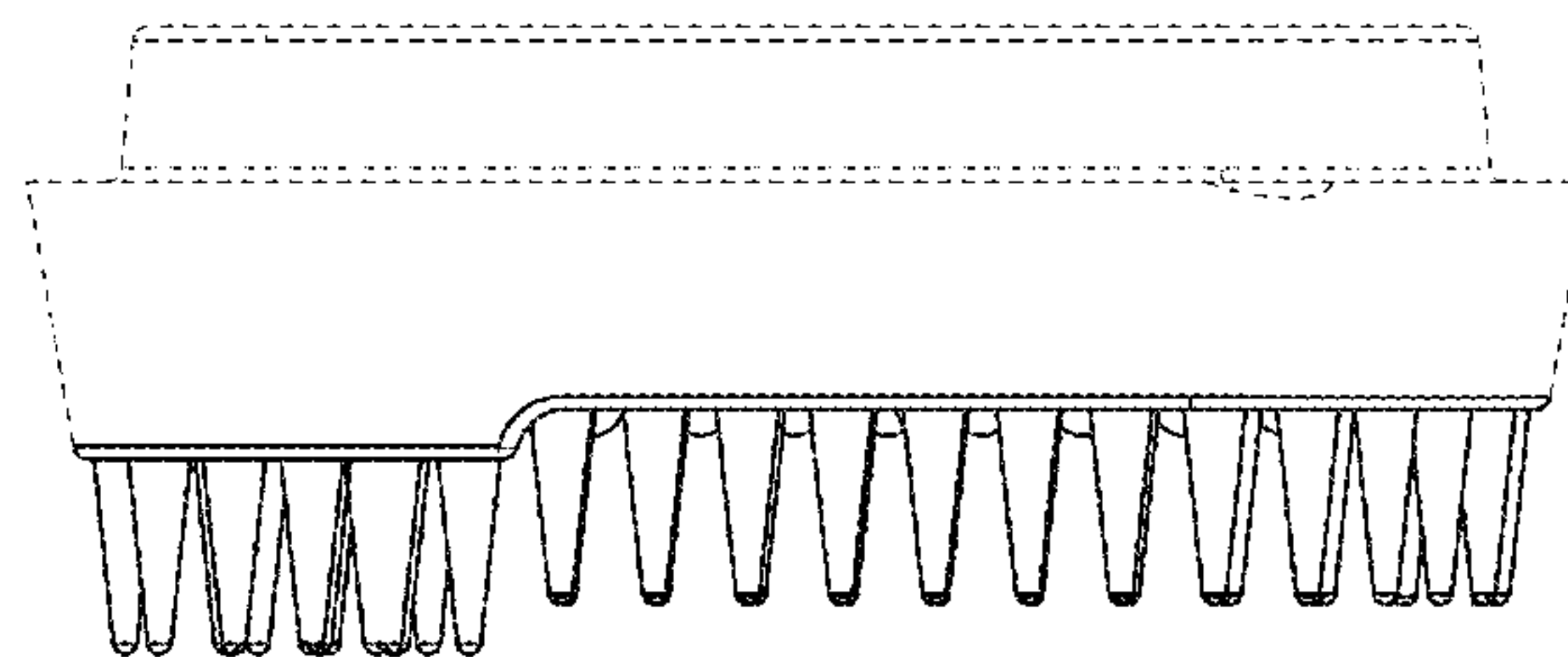
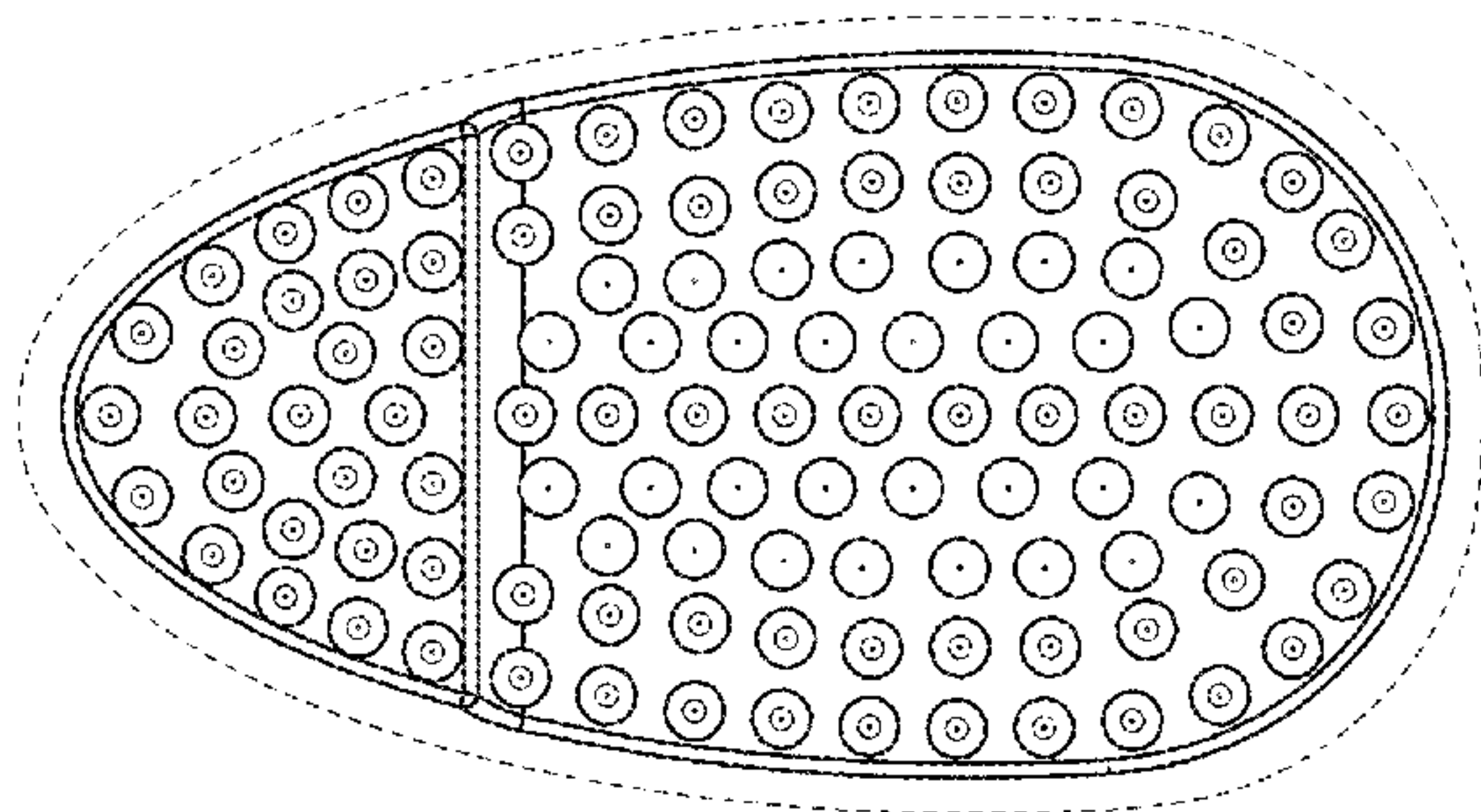
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(57) **CLAIM**  
The ornamental design for a dental cleaning head, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a dental cleaning head; FIG. 2 is a back perspective view of the design as shown in FIG. 1; FIG. 3 is a back view of the design shown in FIG. 1; FIG. 4 is a front view of the design shown in FIG. 1; FIG. 5 is a right end view of the design based upon the orientation of FIG. 4; FIG. 6 is a left end view of the design based upon the orientation of FIG. 4; FIG. 7 is a side view of the design shown in FIG. 1; and FIG. 8 is an opposite side view of the design as shown in FIG. 1; FIG. 9 is a reduced, environmental, perspective view showing the dental cleaning head installed on a handle; FIG. 10 is an enlarged left end view of the design as shown in FIG. 9; FIG. 11 is an enlarged right end view of the design as shown in FIG. 9; FIG. 12 is a side view of the design as shown in FIG. 9; FIG. 13 is back view of the design as shown in FIG. 9; FIG. 14 is the side view opposite that shown in FIG. 12; and, FIG. 15 is a front view of the design, as shown in FIG. 9. The broken lines and the areas within the broken lines illustrate portions of the dental cleaning head and in the case of the handle, environmental structure of dental cleaning head that form no part of the claimed design.

**1 Claim, 15 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

388,253 A 8/1888 Bowers  
 659,593 A 10/1900 Richards  
 686,764 A 11/1901 Richards  
 726,727 A \* 4/1903 Mills ..... 15/188  
 877,585 A 1/1908 Nicolai  
 1,073,155 A 9/1913 Miller  
 1,251,250 A \* 12/1917 Libby ..... 15/110  
 1,270,536 A 6/1918 Maher  
 1,327,757 A 1/1920 Eggers  
 1,347,275 A 7/1920 Iden  
 1,364,996 A 1/1921 Jordan  
 1,371,790 A 3/1921 Kelly  
 1,620,990 A 3/1927 Brothers  
 1,673,638 A 6/1928 Peterson  
 1,729,167 A 9/1929 Knapp  
 1,797,946 A 3/1931 Eichel  
 1,800,993 A 4/1931 Funk  
 1,801,915 A 4/1931 Gray  
 1,817,585 A 8/1931 Samuel  
 1,833,555 A 11/1931 Bell et al.  
 1,908,510 A 5/1933 Dodson  
 1,924,337 A 8/1933 Troupa  
 1,968,303 A 7/1934 McMath  
 1,987,390 A 1/1935 Davis  
 D104,225 S \* 4/1937 Scott ..... D4/136  
 2,077,540 A 4/1937 Welker  
 2,079,728 A \* 5/1937 Arnold ..... 601/139  
 2,092,987 A 9/1937 Remington  
 2,101,363 A 12/1937 De Rome  
 2,103,083 A 12/1937 Lynch  
 2,111,238 A 3/1938 Doyle  
 D116,162 S \* 8/1939 Hall ..... D4/136  
 2,171,591 A \* 9/1939 Minich ..... 300/21  
 D118,268 S 12/1939 Salit  
 2,206,726 A 7/1940 Lasater  
 2,217,439 A 10/1940 Fuller  
 2,218,738 A 10/1940 Boysen  
 2,225,331 A 12/1940 Campbell  
 2,244,699 A 6/1941 Hosey  
 2,279,355 A 4/1942 Wilensky  
 2,476,201 A 7/1949 Ligoure  
 2,517,045 A 8/1950 Soule  
 2,600,136 A 6/1952 Staunt  
 2,618,003 A 11/1952 Robey  
 2,642,604 A 6/1953 Ferrari  
 2,668,973 A 2/1954 Glaza et al.  
 2,686,325 A 8/1954 Silver  
 2,706,825 A 4/1955 Blakeman  
 2,719,315 A 10/1955 Sheehan  
 2,736,917 A 3/1956 Goldstein et al.  
 2,877,483 A 3/1959 Alvistur  
 2,985,167 A 5/1961 Colb  
 3,007,441 A 11/1961 Eyer  
 3,010,131 A 11/1961 Kisky  
 3,018,778 A 1/1962 Brilliant  
 3,043,295 A 7/1962 Ward  
 3,067,446 A 12/1962 McGauley  
 3,174,174 A 3/1965 Dengler  
 3,267,512 A 8/1966 Wiley  
 3,321,796 A 5/1967 Lelicoff  
 3,332,103 A 7/1967 Case  
 3,337,893 A 8/1967 Fine et al.  
 3,458,268 A 7/1969 Wozab et al.  
 3,467,979 A 9/1969 Bohlmann  
 3,491,396 A 1/1970 Eannarino et al.  
 3,934,299 A 1/1976 Regester  
 4,083,078 A 4/1978 Shimizu  
 4,115,893 A 9/1978 Nakata et al.  
 4,128,910 A 12/1978 Nakata et al.  
 4,195,625 A 4/1980 Bukowski

4,205,664 A 6/1980 Baccialon  
 D259,976 S 7/1981 Seelig  
 4,319,379 A 3/1982 Carrigan et al.  
 4,323,347 A 4/1982 Weissman  
 4,411,041 A 10/1983 Braga  
 4,486,109 A 12/1984 Rosofsky  
 4,543,679 A 10/1985 Rosofsky et al.  
 4,628,564 A 12/1986 Youssef  
 4,638,521 A 1/1987 Potente et al.  
 4,679,274 A 7/1987 Friedman  
 4,731,896 A 3/1988 de La Tour  
 4,770,195 A 9/1988 Dore  
 4,831,676 A 5/1989 Denmark  
 4,890,349 A 1/1990 Nietzsche  
 5,027,796 A 7/1991 Linzey  
 5,040,260 A 8/1991 Michaels  
 D319,735 S 9/1991 Hodosh et al.  
 5,158,383 A 10/1992 Glover et al.  
 5,158,532 A 10/1992 Peng et al.  
 5,224,234 A 7/1993 Arsenault et al.  
 5,247,718 A 9/1993 Victorian  
 5,273,425 A 12/1993 Hoagland  
 5,396,679 A 3/1995 Brown et al.  
 5,407,358 A 4/1995 Gruber  
 D357,809 S \* 5/1995 Brown et al. .... D4/113  
 5,471,701 A 12/1995 Parfenie  
 5,499,422 A 3/1996 Lavazoli  
 5,500,973 A 3/1996 Phelan  
 5,511,276 A 4/1996 Lee  
 5,555,590 A 9/1996 Blum et al.  
 D388,253 S 12/1997 Ra  
 5,737,792 A 4/1998 Quigless  
 5,765,252 A 6/1998 Carr  
 5,774,925 A 7/1998 Pryor, III  
 D402,472 S 12/1998 Chen  
 5,864,915 A 2/1999 Ra  
 5,875,513 A 3/1999 Reinold  
 5,896,614 A 4/1999 Flewitt  
 5,930,860 A 8/1999 Shipp  
 6,067,684 A 5/2000 Kweon  
 6,126,444 A 10/2000 Horiguchi  
 6,205,611 B1 3/2001 Vigil  
 6,254,390 B1 \* 7/2001 Wagner ..... 433/216  
 6,336,461 B1 1/2002 Martinez  
 6,374,448 B2 4/2002 Seifert  
 6,408,473 B1 6/2002 Kessler  
 6,510,576 B1 1/2003 Gruber  
 D490,247 S 5/2004 Nanda  
 6,957,467 B2 10/2005 Cabedo-Deslierres et al.  
 D584,058 S \* 1/2009 Grant ..... D4/108  
 D607,647 S 1/2010 Gruber  
 1,012,653 A1 12/2011 Knickerbocker  
 8,206,201 B2 \* 6/2012 Fioratti ..... 451/526  
 8,550,736 B2 \* 10/2013 Hohlbein et al. .... 401/132  
 2007/0265555 A1 \* 11/2007 Deng ..... 601/141

FOREIGN PATENT DOCUMENTS

DE 4430653 8/1995  
 GB 1592513 7/1981  
 JP 02-180203 7/1990  
 JP 10-158591 6/1998  
 JP 2000-050955 2/2000  
 JP 2004-249061 9/2004  
 JP 2009-189431 8/2009  
 JP 2010-51795 3/2010  
 KR 1999-0000641 S \* 6/1999

OTHER PUBLICATIONS

Patent Examination Report No. 1 issued on Sep. 24, 2014 for Australian application 2012245740. 3 pages.

\* cited by examiner



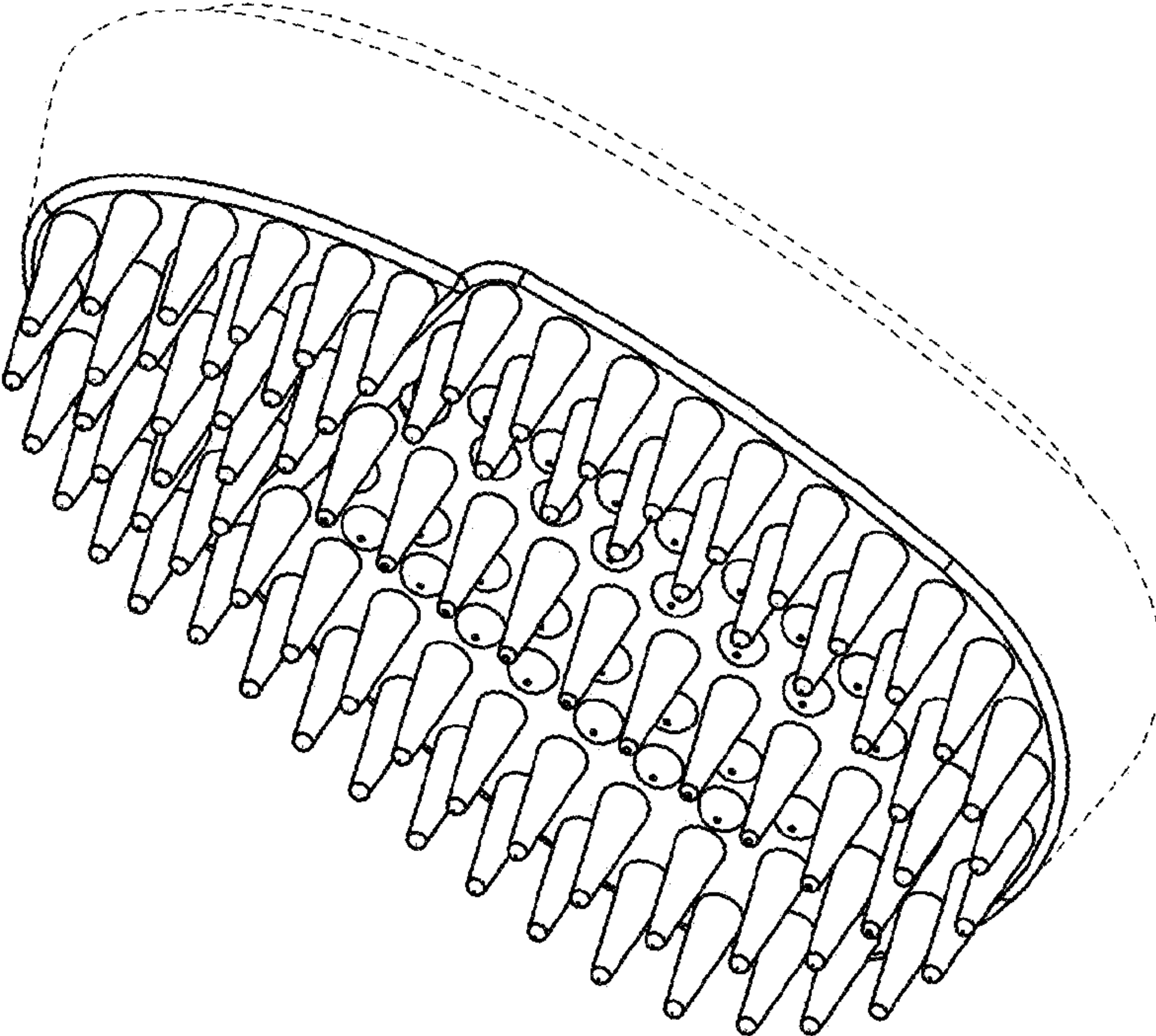


FIG. 1

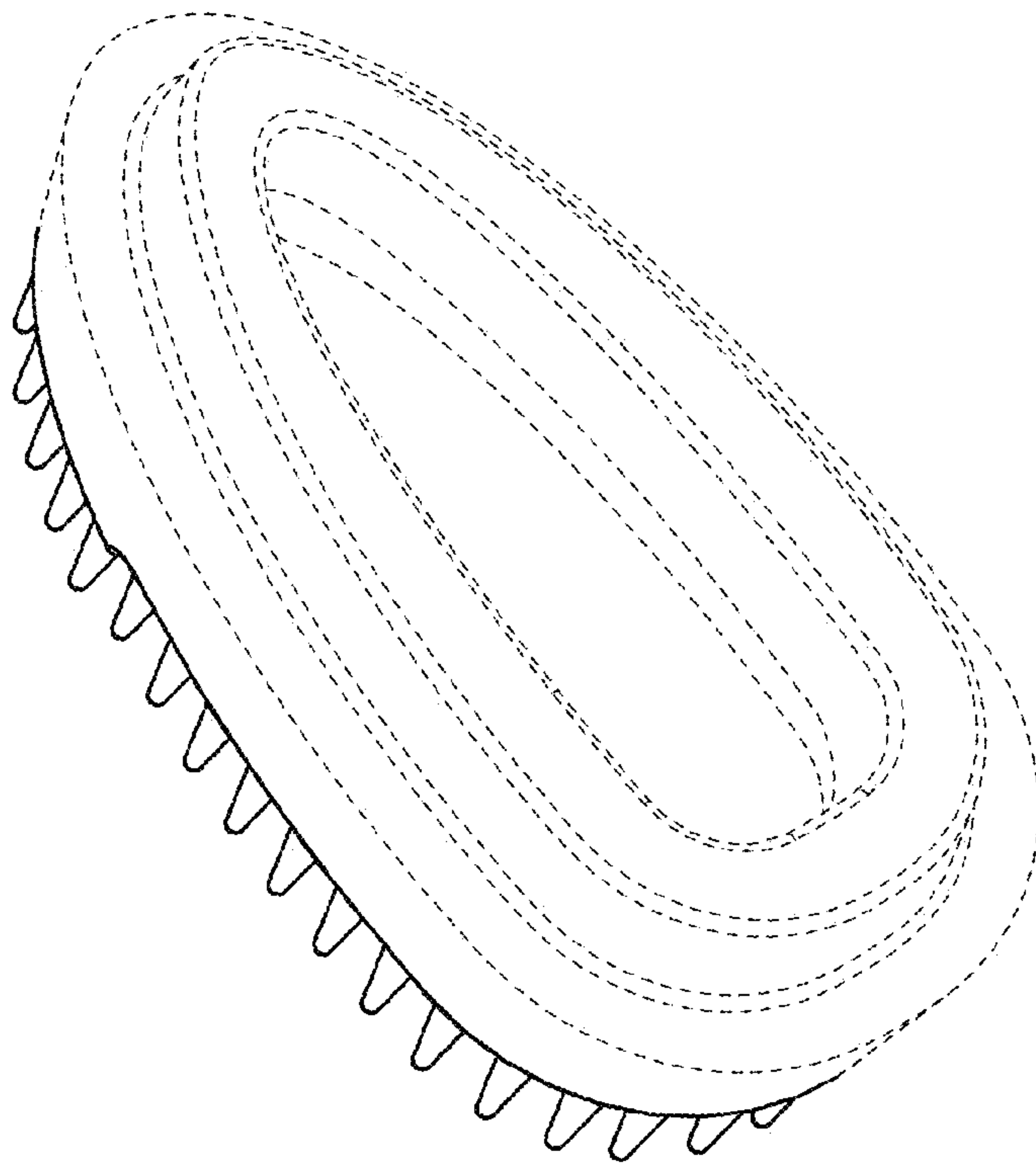


FIG. 2

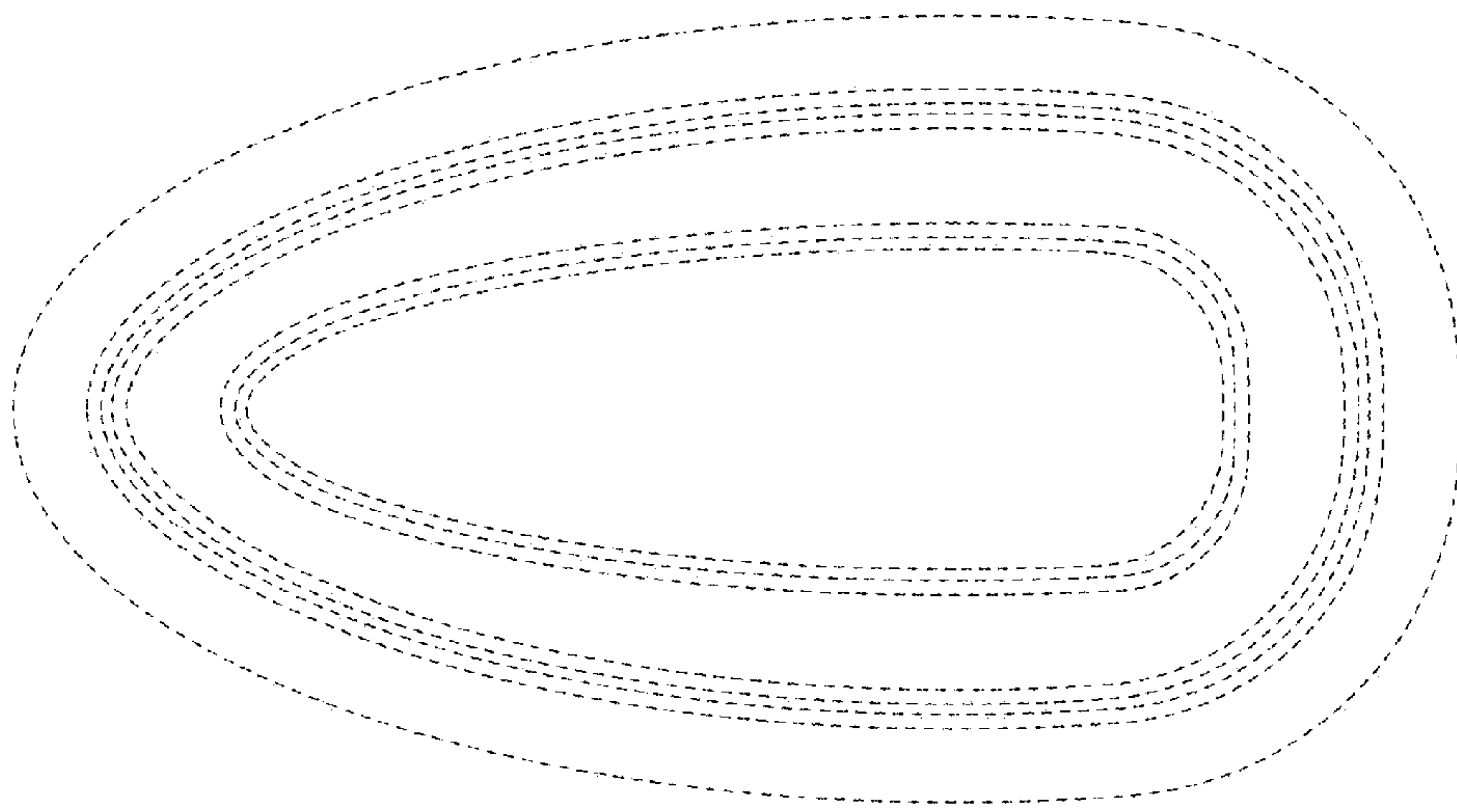


FIG. 3

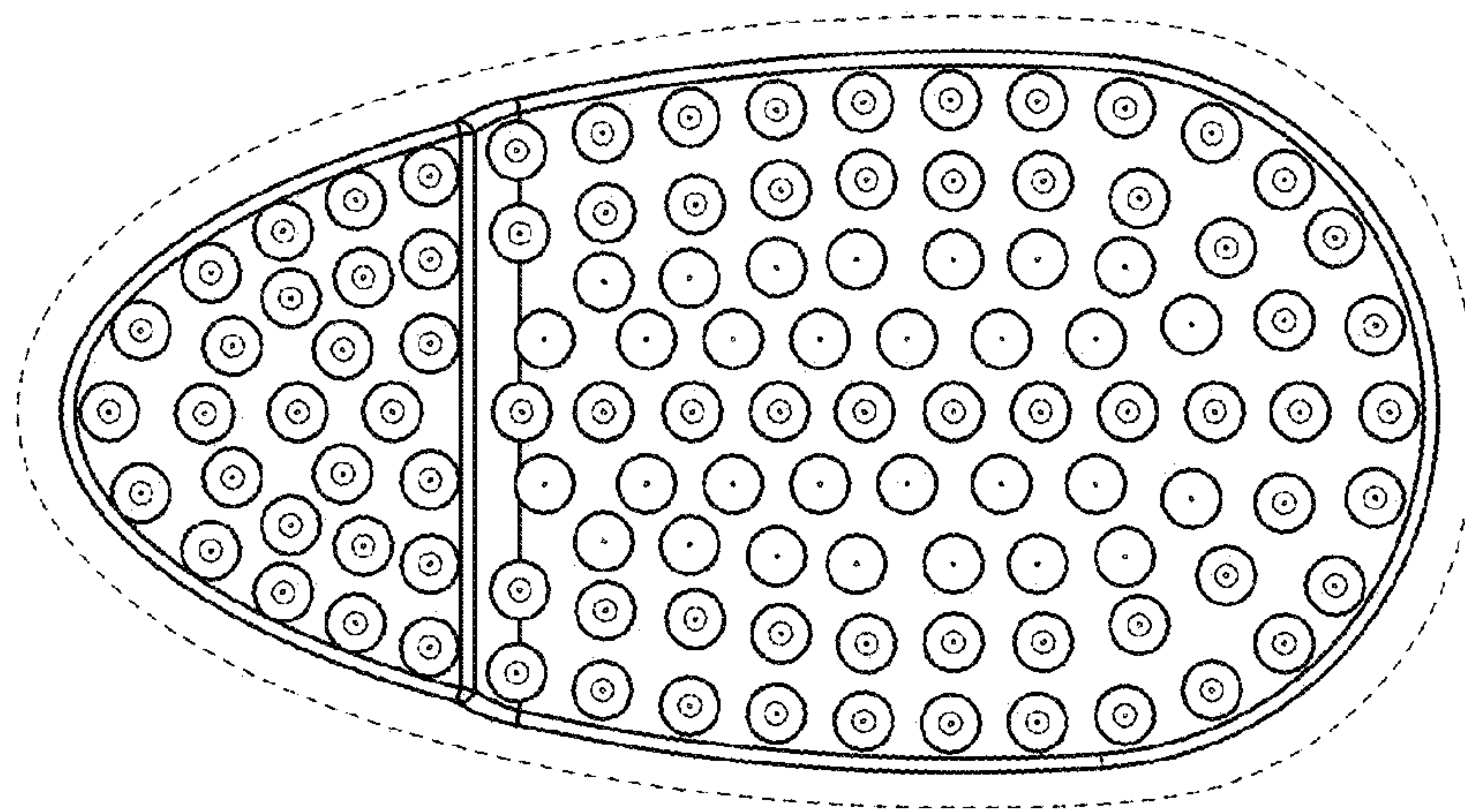


FIG. 4

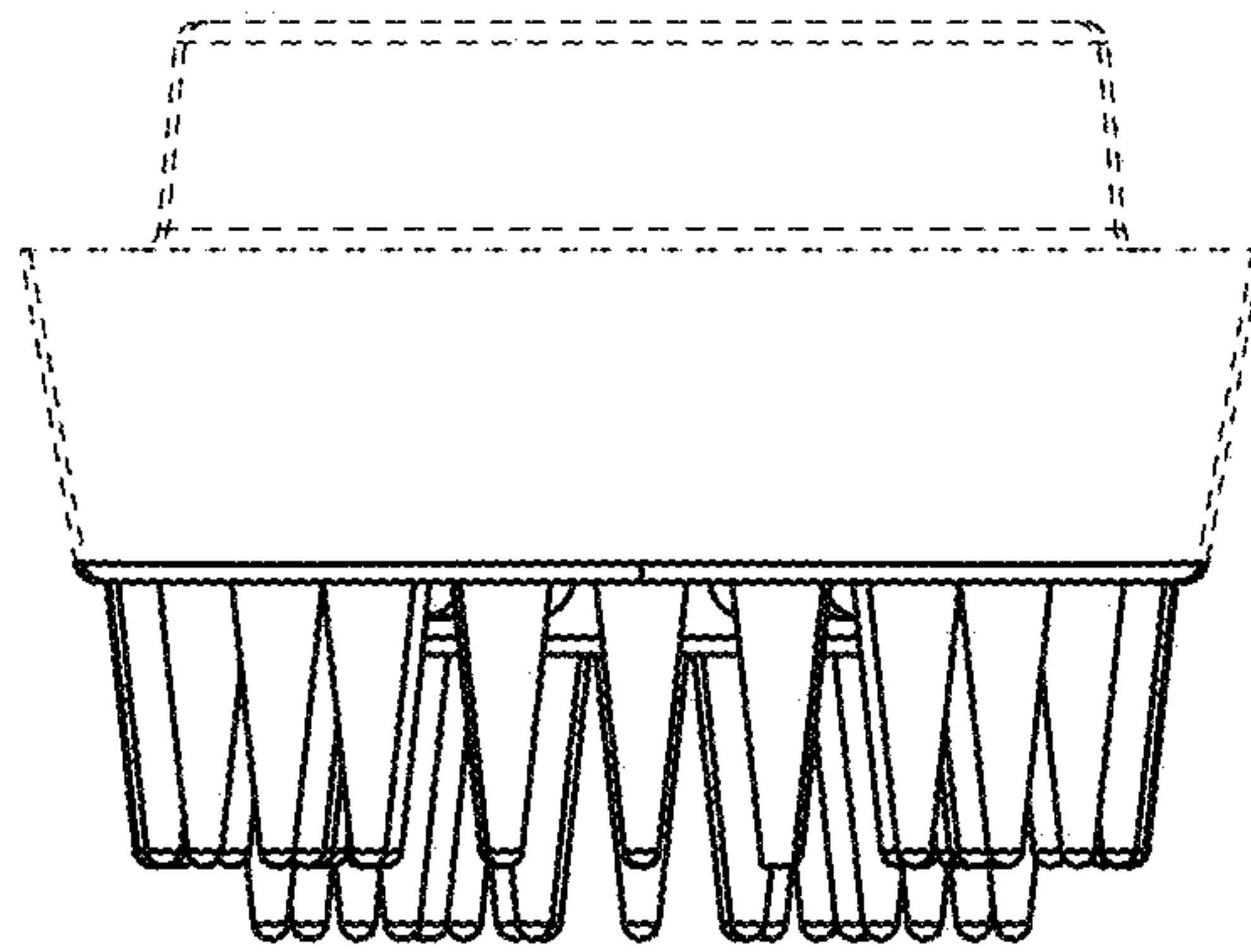


FIG. 5

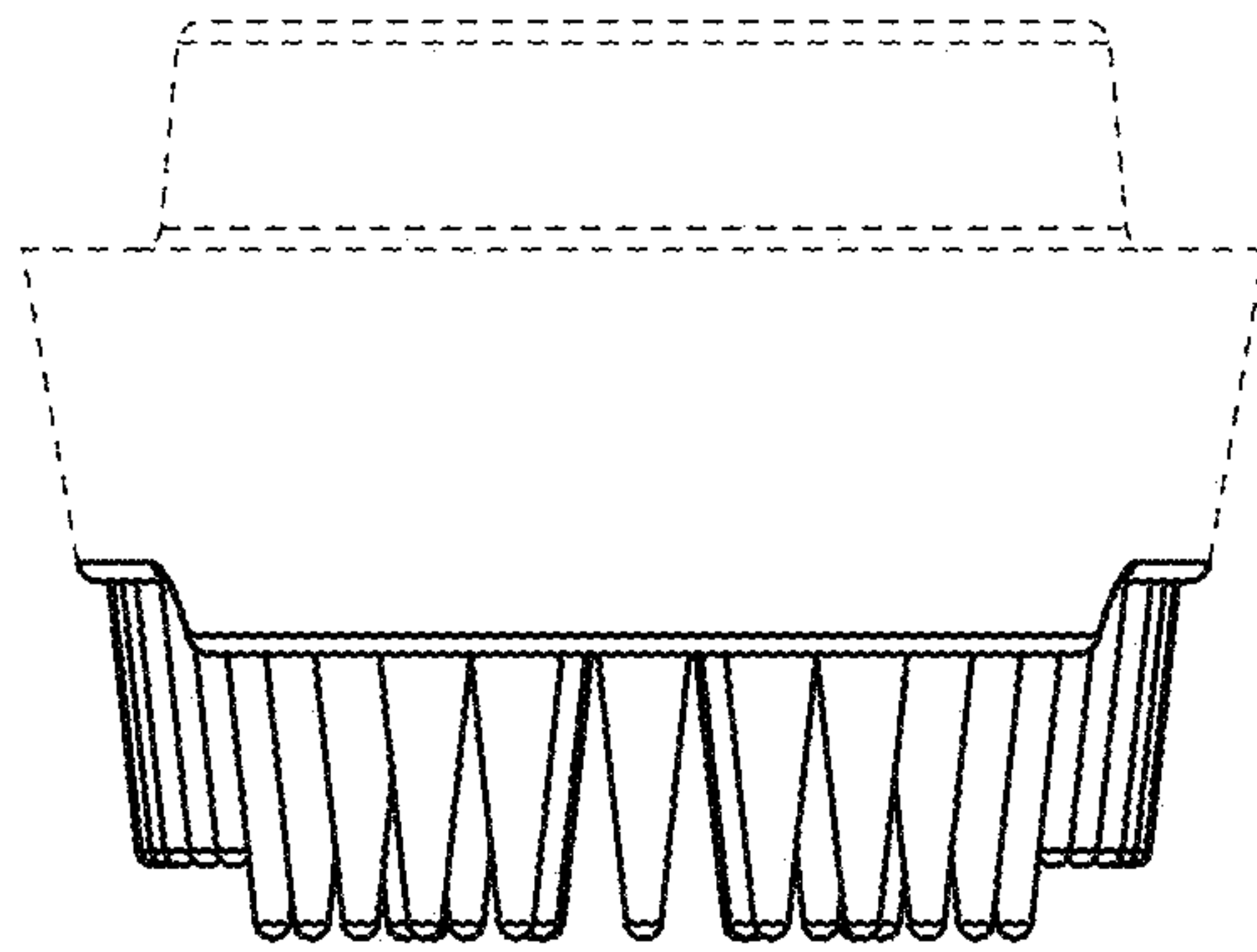


FIG. 6



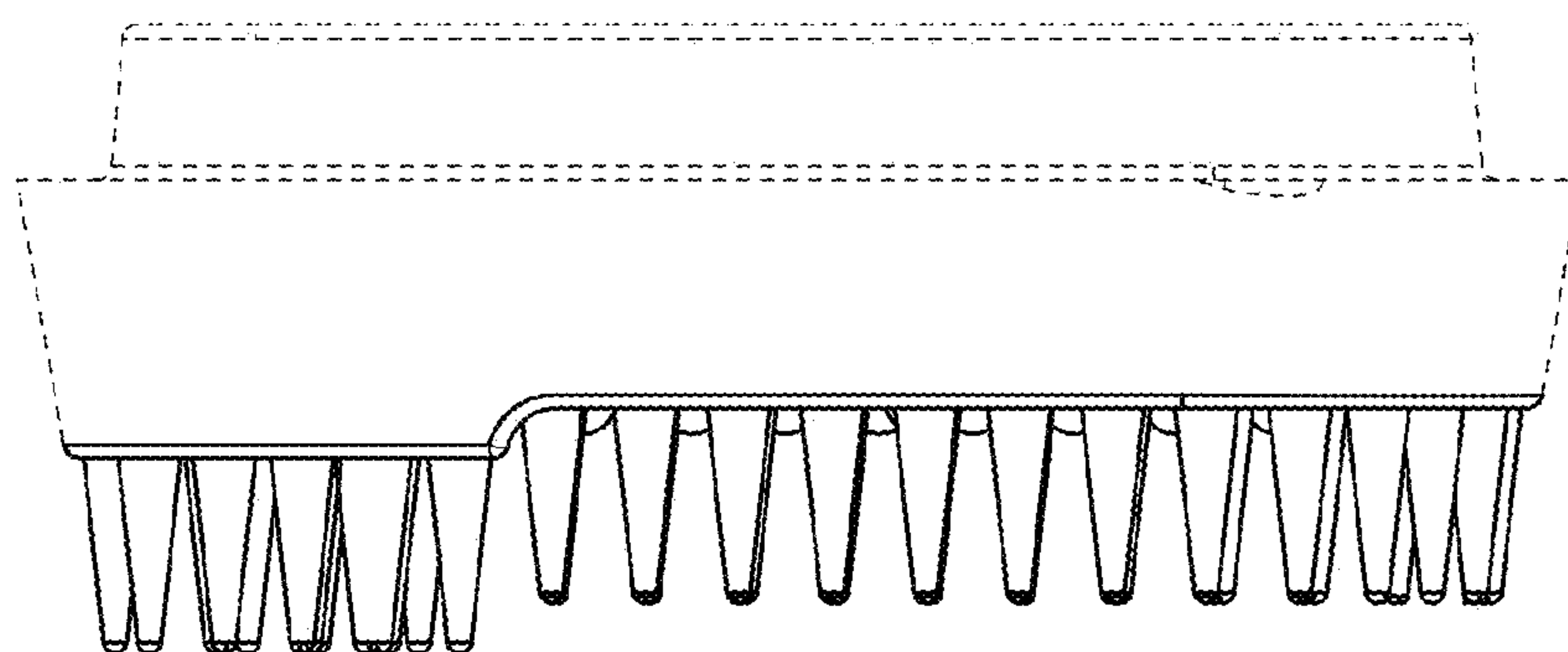


FIG. 7

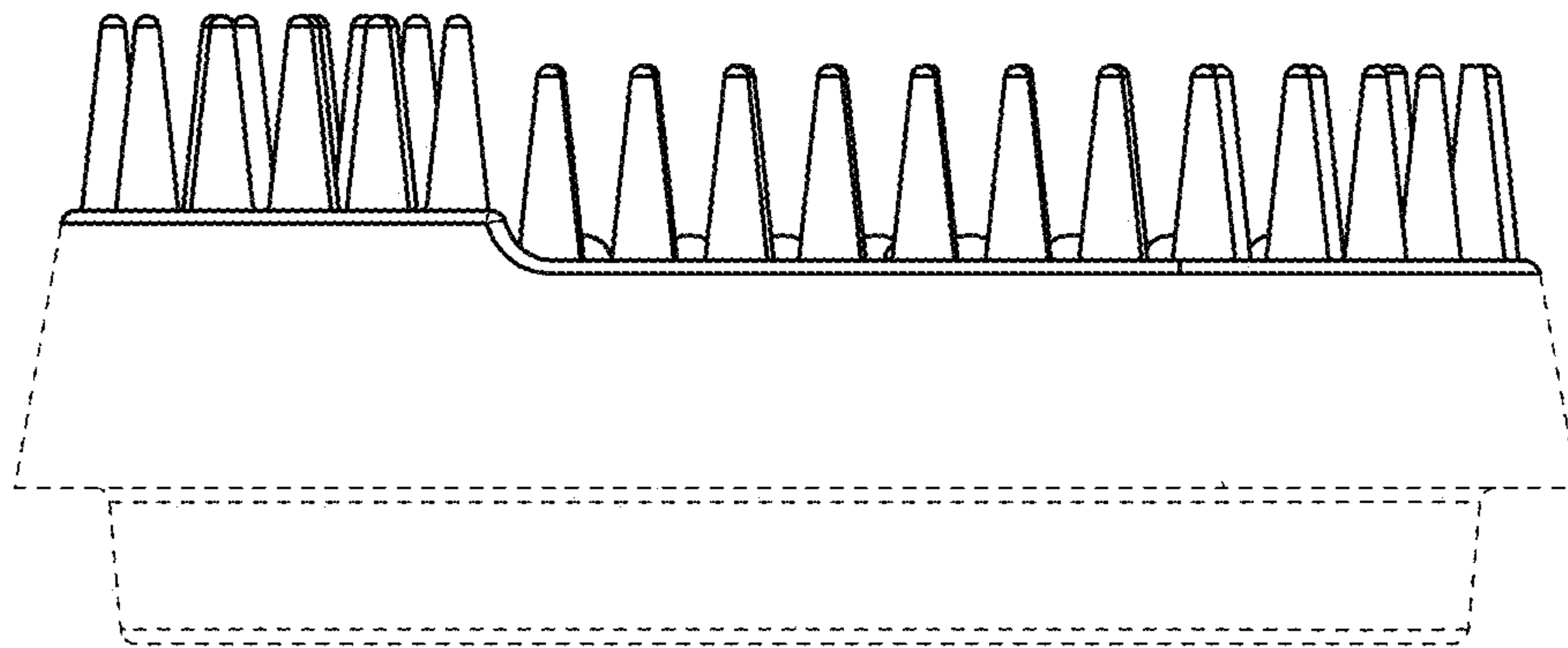


FIG. 8

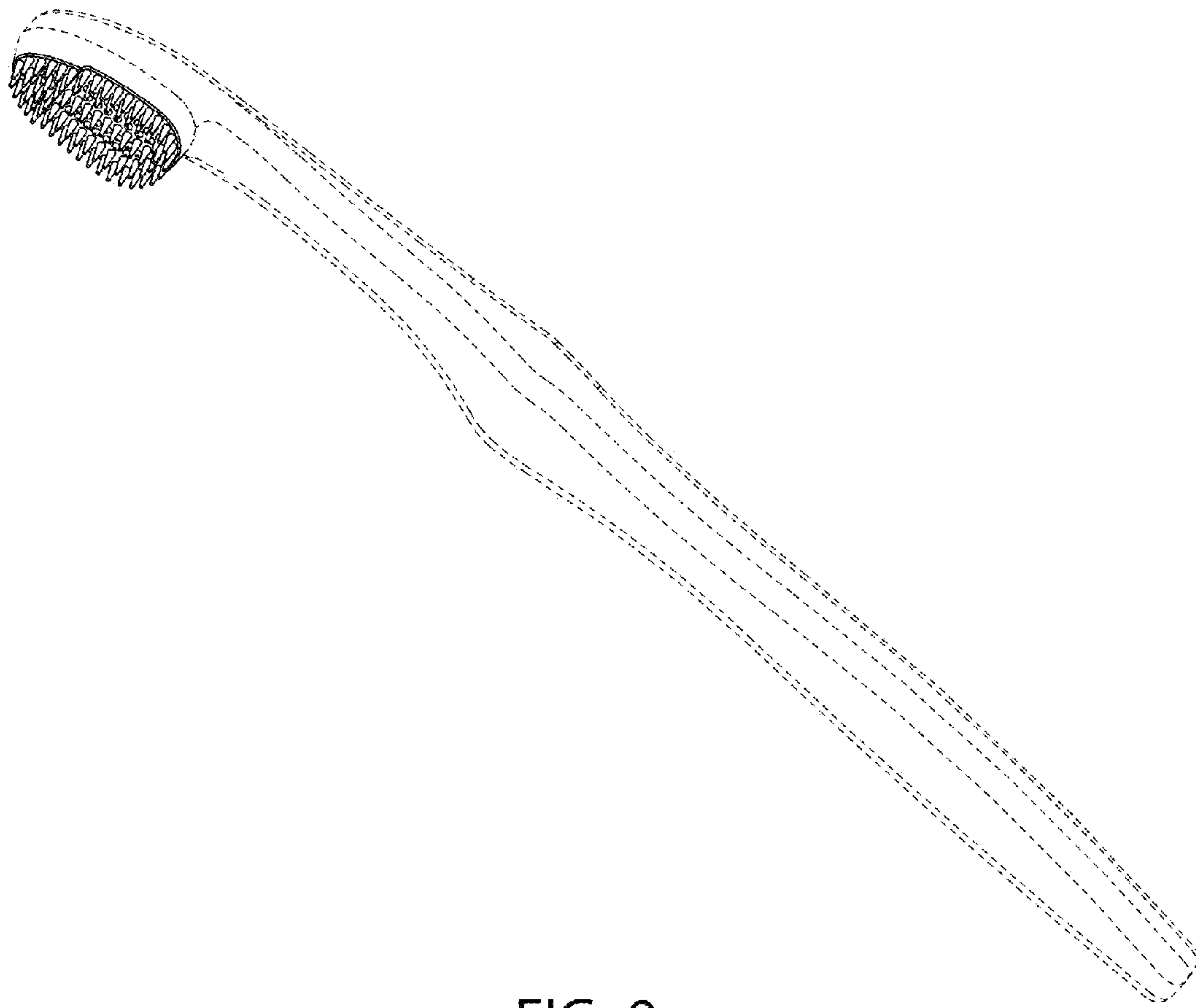


FIG. 9

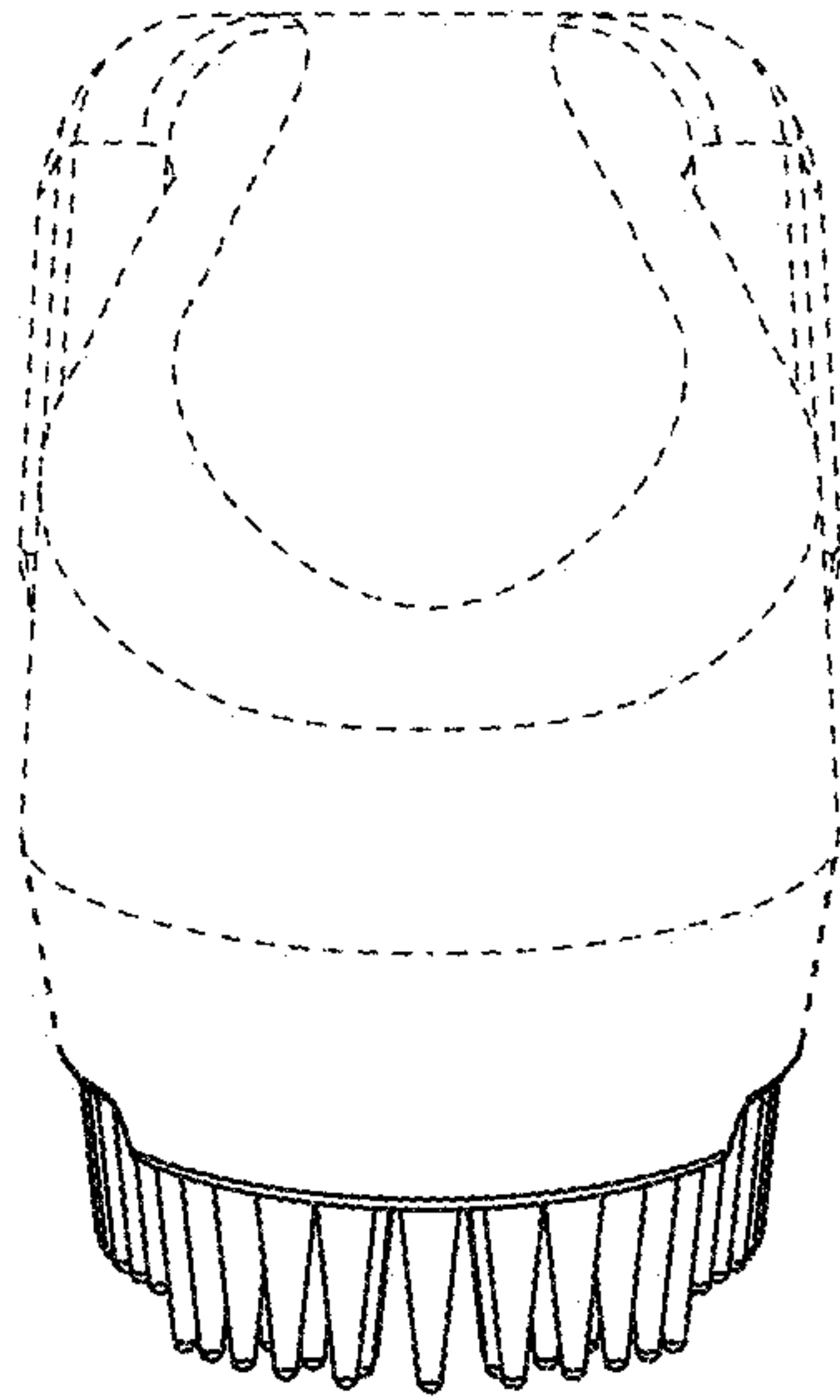


FIG. 10



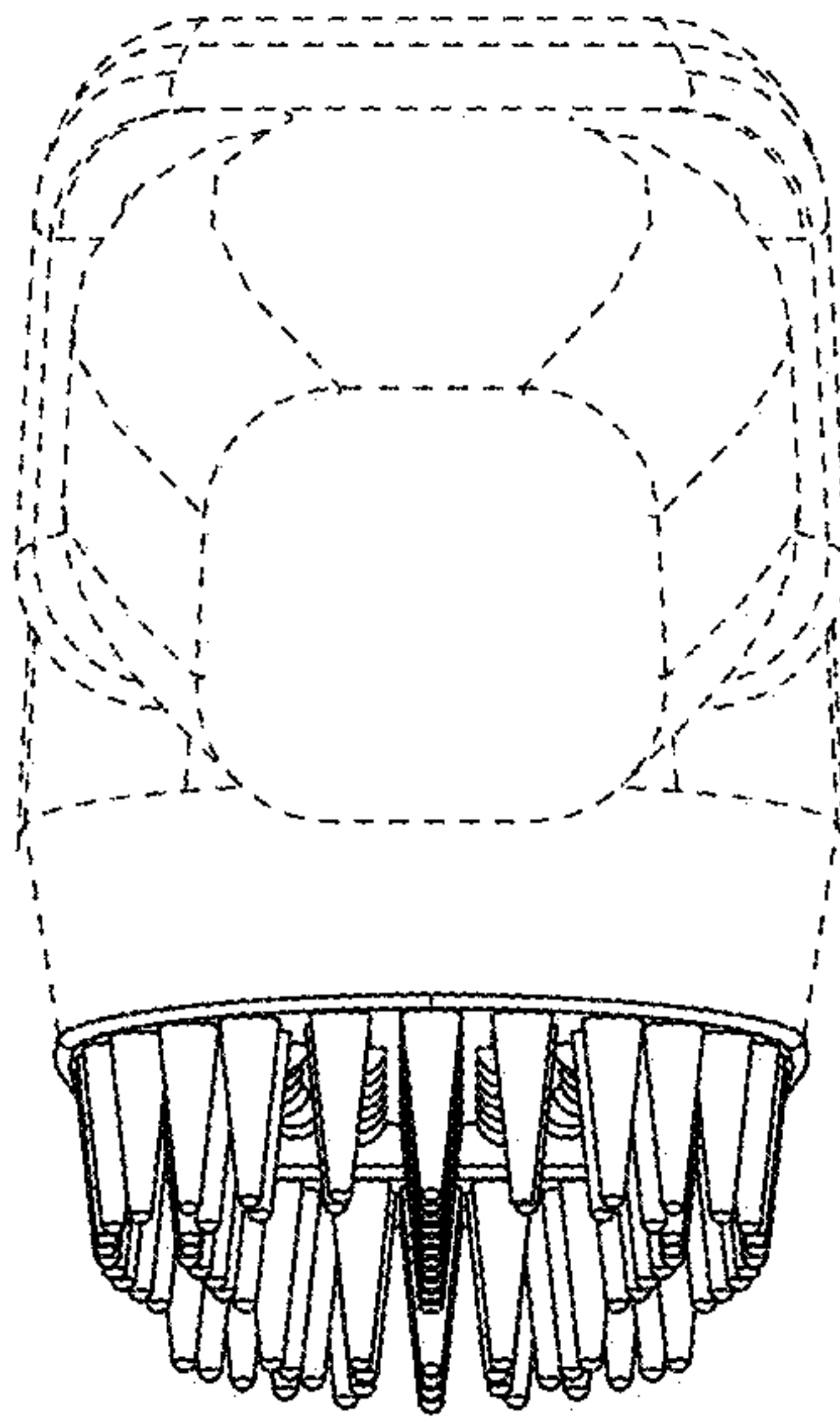


FIG. 11

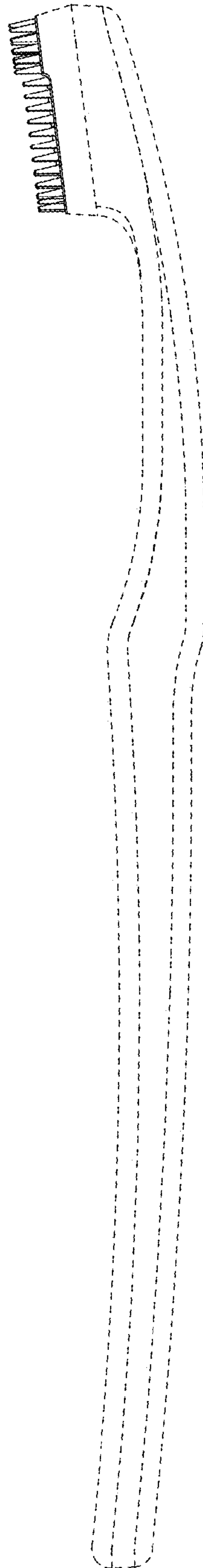


FIG. 12

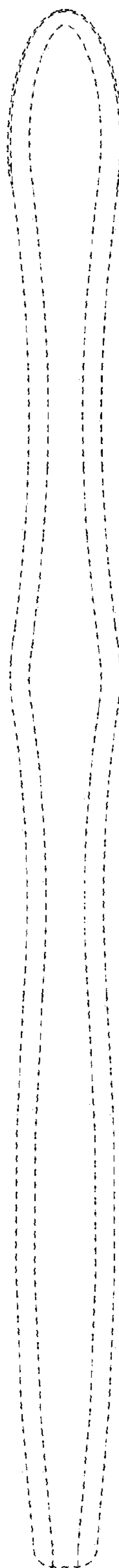


FIG. 13

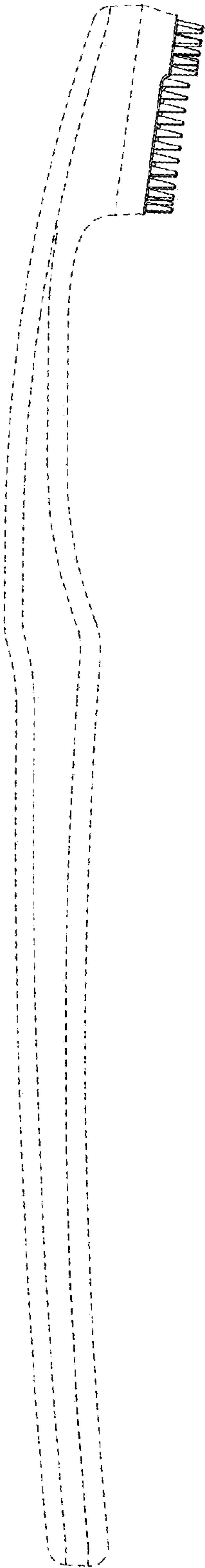


FIG. 14



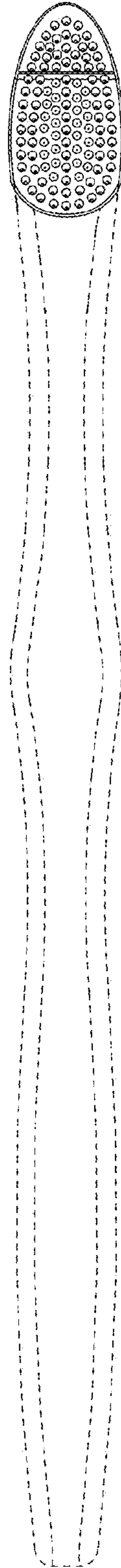


FIG. 15