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

(10) **Patent No.:** **US D740,033 S**
(45) **Date of Patent:** **** *Oct. 6, 2015**

(54) **DENTAL CLEANING HEAD**

86,764 A 11/1901 Richards
726,727 A * 4/1903 Mills 15/188
877,585 A 1/1908 Nicolai

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(Continued)

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

FOREIGN PATENT DOCUMENTS

(*) Notice: This patent is subject to a terminal disclaimer.

CA 2334841 12/1999
DE 3621815 1/1988

(Continued)

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

OTHER PUBLICATIONS

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(22) Filed: **Oct. 6, 2011**

(Continued)

Related U.S. Application Data

(63) Continuation-in-part of application No. 29/391,568, filed on May 11, 2011, which is a continuation-in-part of application No. 13/091,063, filed on Apr. 20, 2011, now Pat. No. 8,549,693.

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

(57) **CLAIM**

The ornamental design for a dental cleaning head, as shown and described.

(52) **U.S. Cl.**

USPC **D4/104**; D4/136

(58) **Field of Classification Search**

DESCRIPTION

USPC D4/101, 104-113, 130, 136; 15/110, 15/167.1, 167.2, 188; 132/308-311; 601/139, 141, 142; 606/161
CPC A46B 1/00; A46B 3/00; A46B 3/22; A46B 9/00; A46B 9/02; A46B 9/005; A46B 9/04; A46B 2200/1026; A46B 2200/1066; A61B 17/244; A61H 13/00

See application file for complete search history.

FIG. 1 is front perspective view of a dental cleaning head showing our new design;
FIG. 2 is another front perspective view thereof;
FIG. 3 is a side view thereof;
FIG. 4 is an inverted view of the opposite side thereof;
FIG. 5 is a top end view thereof;
FIG. 6 is a bottom end view thereof;
FIG. 7 is a front view thereof;
FIG. 8 is a back perspective view thereof; and,
FIG. 9 is a back view thereof.

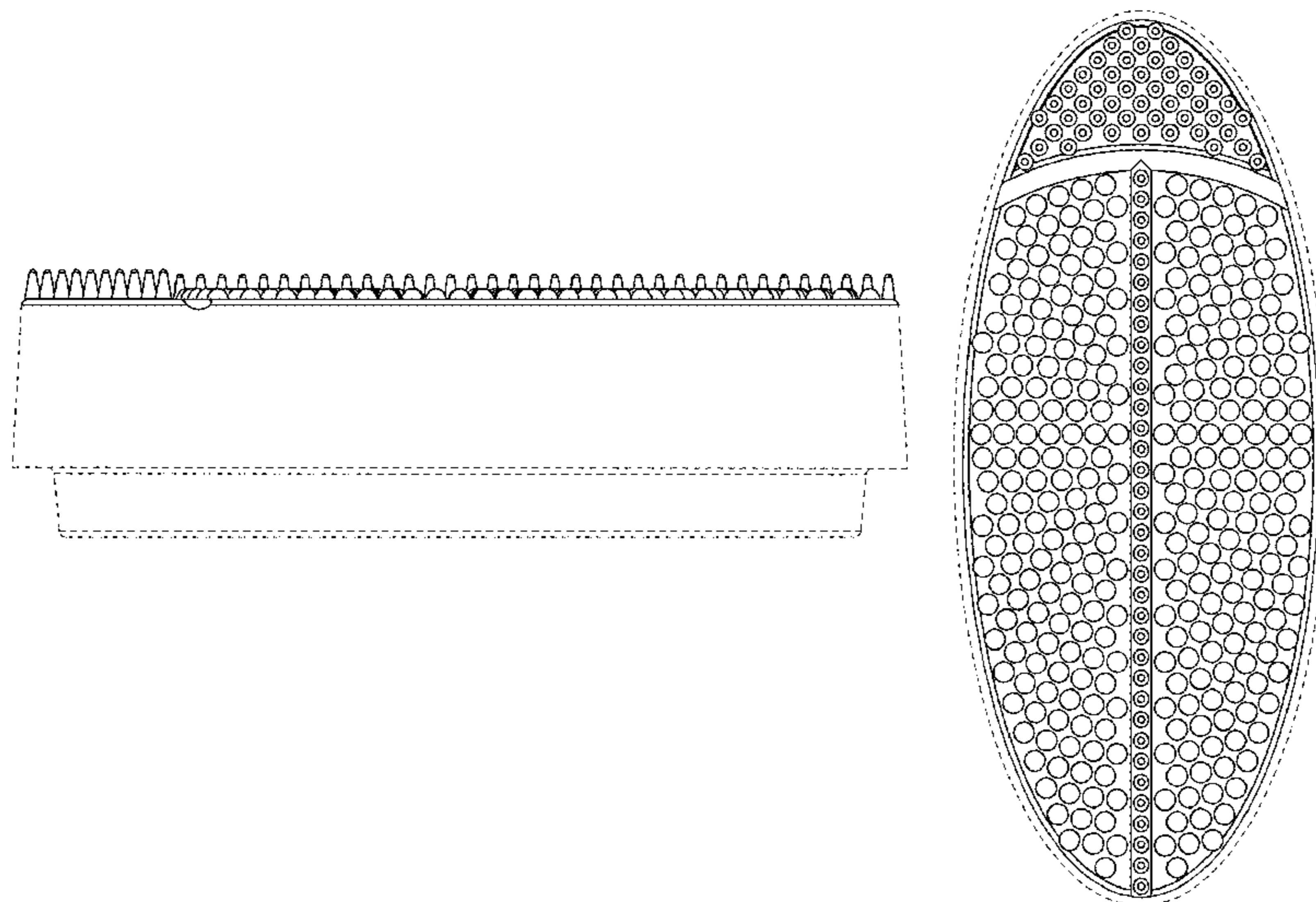
The broken lines and the areas within the broken lines illustrate portions of the dental cleaning head that form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

147,410 A 2/1874 La Fonte
323,305 A 7/1885 Evans
388,253 A 8/1888 Bowers
659,593 A 10/1900 Richards

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

1,012,653 A 12/1911 Knickerbocker
 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
 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
 8,206,201 B2 6/2012 Fioratti
 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 2010-051795 3/2010

OTHER PUBLICATIONS

Patent Examination Report No. 1 issued on Sep. 24, 2014 for Australian application 2012245740. 3 pages.
 U.S. Office Action Dated Apr. 23, 2015 for U.S. Appl. No. 29/417,945 which was originally filed on Apr. 10, 2012.

* cited by examiner

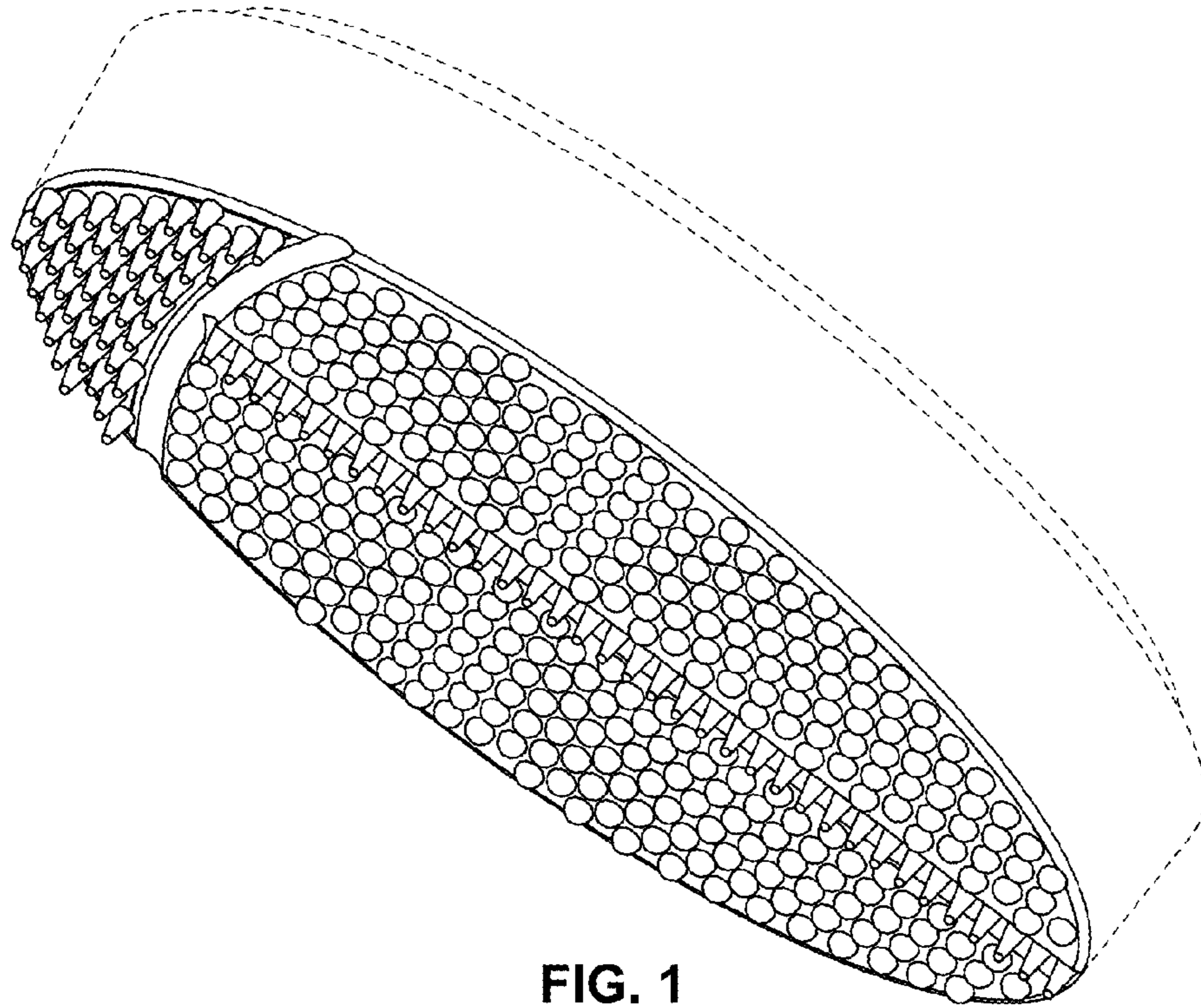


FIG. 1

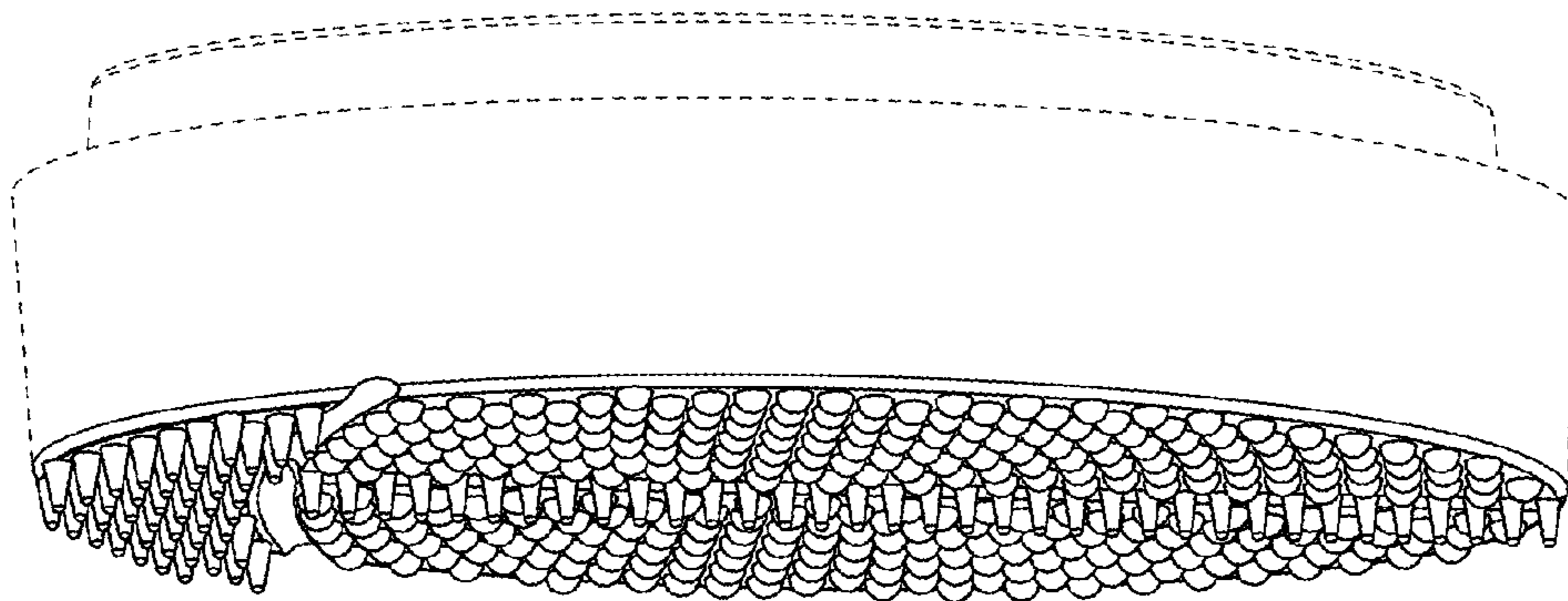


FIG. 2

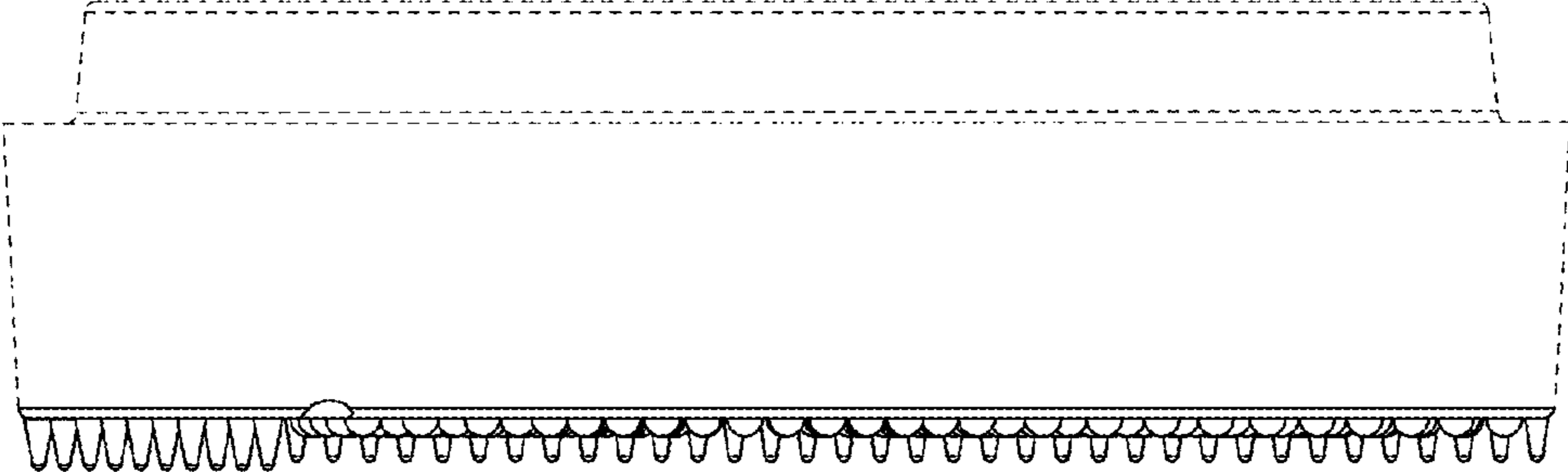


FIG. 3

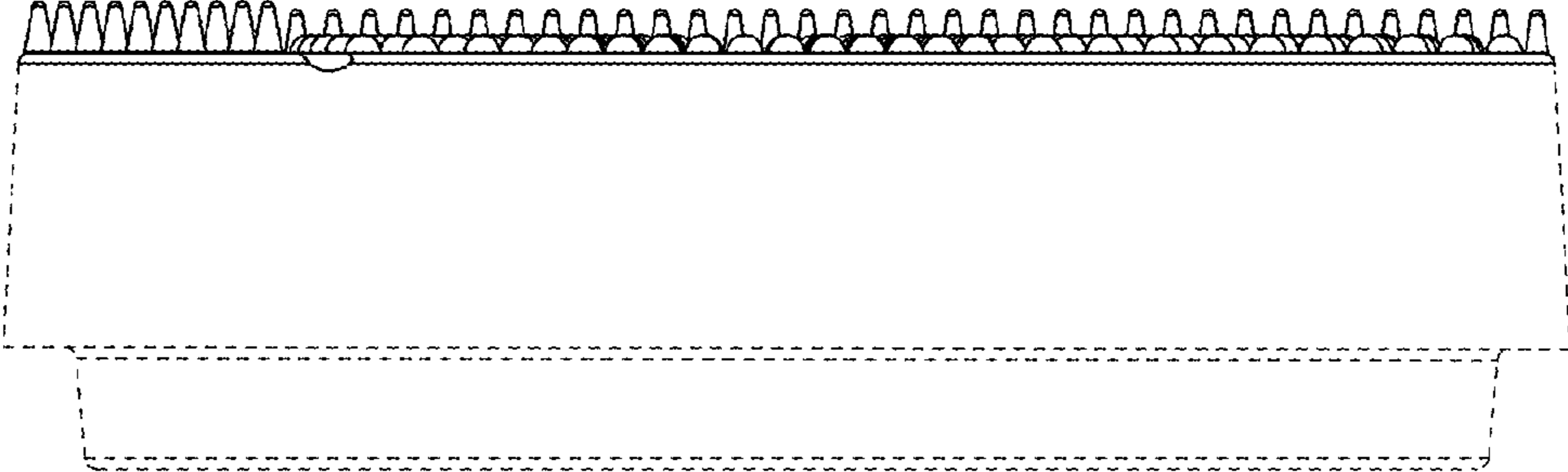


FIG. 4

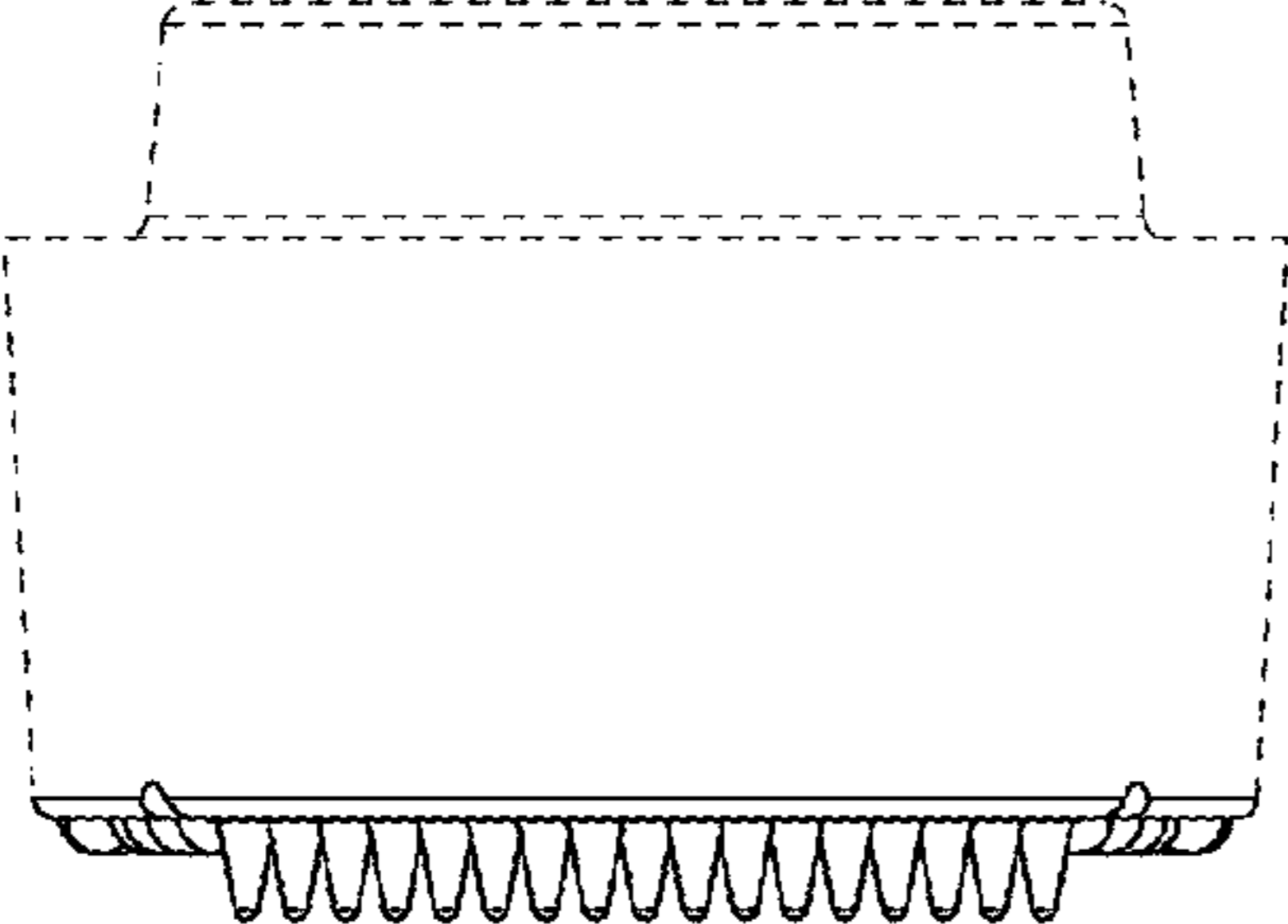


FIG. 5

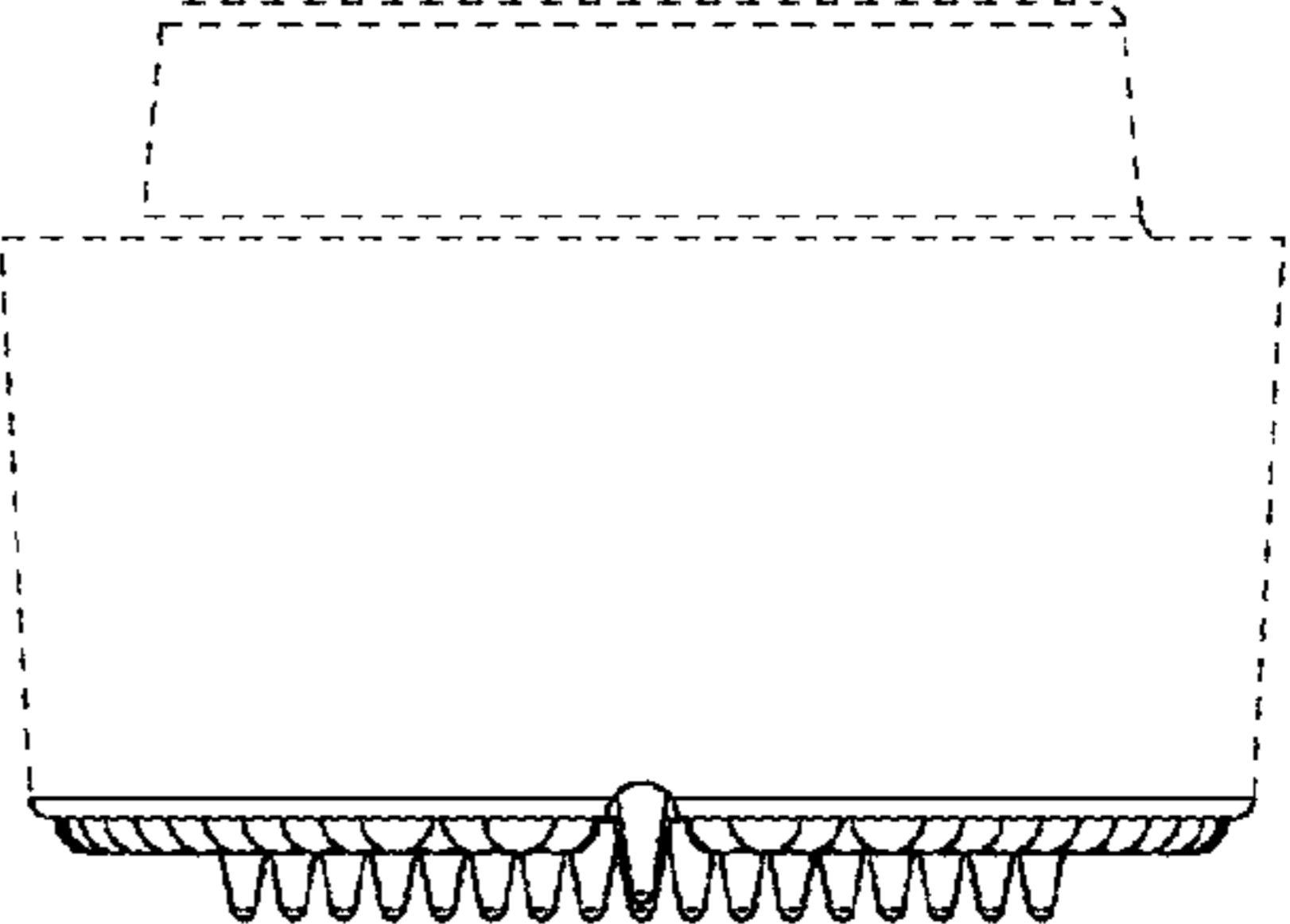


FIG. 6

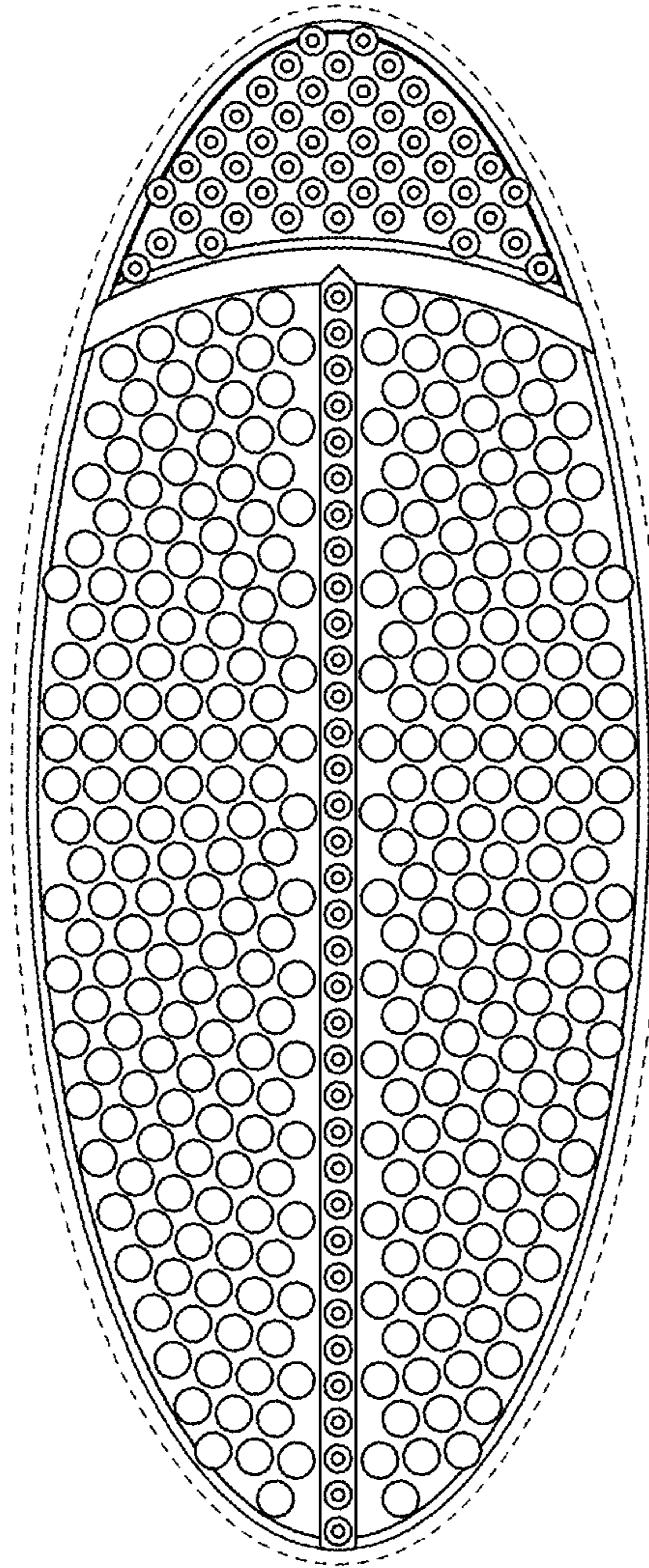


FIG. 7

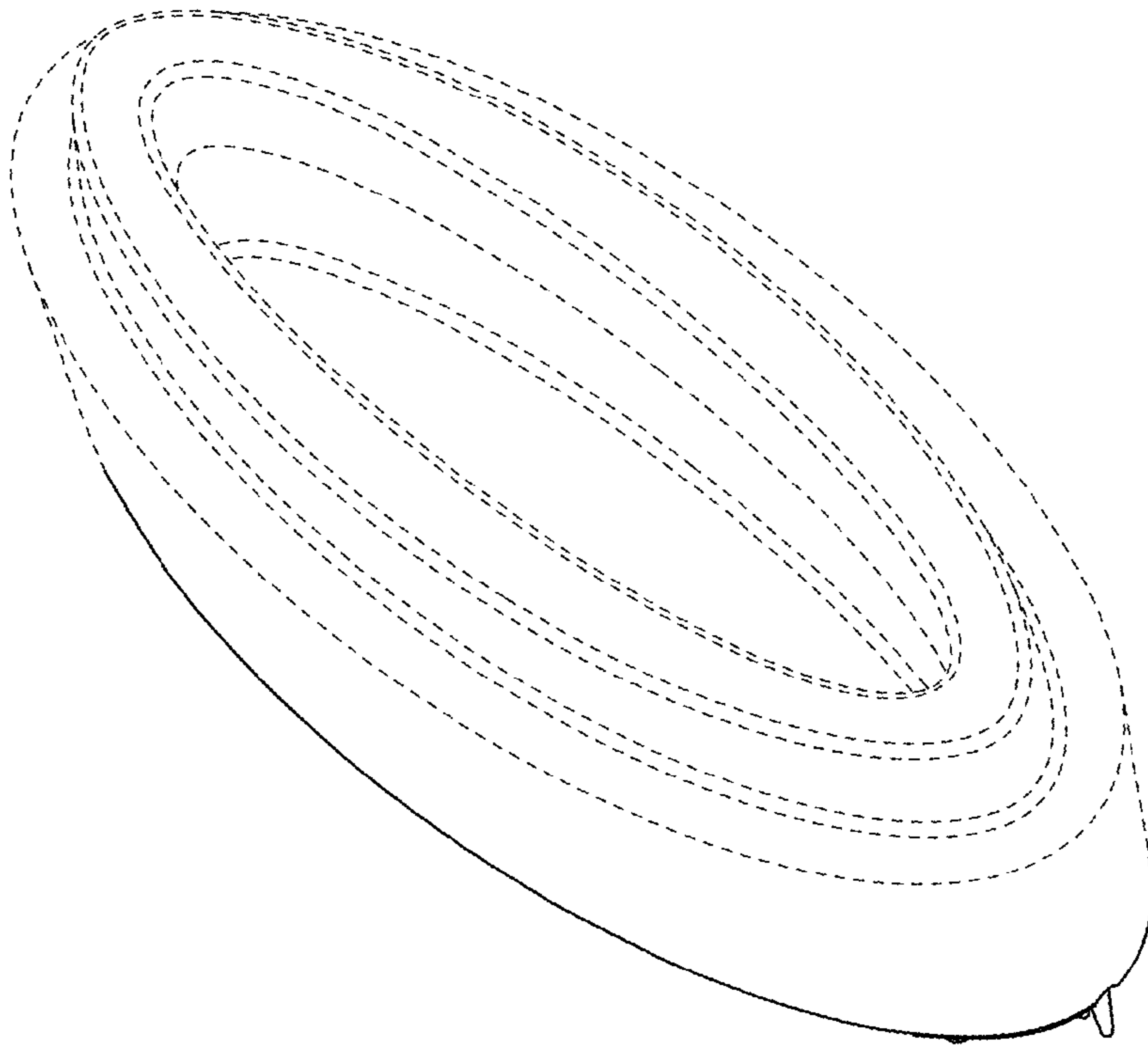


FIG. 8

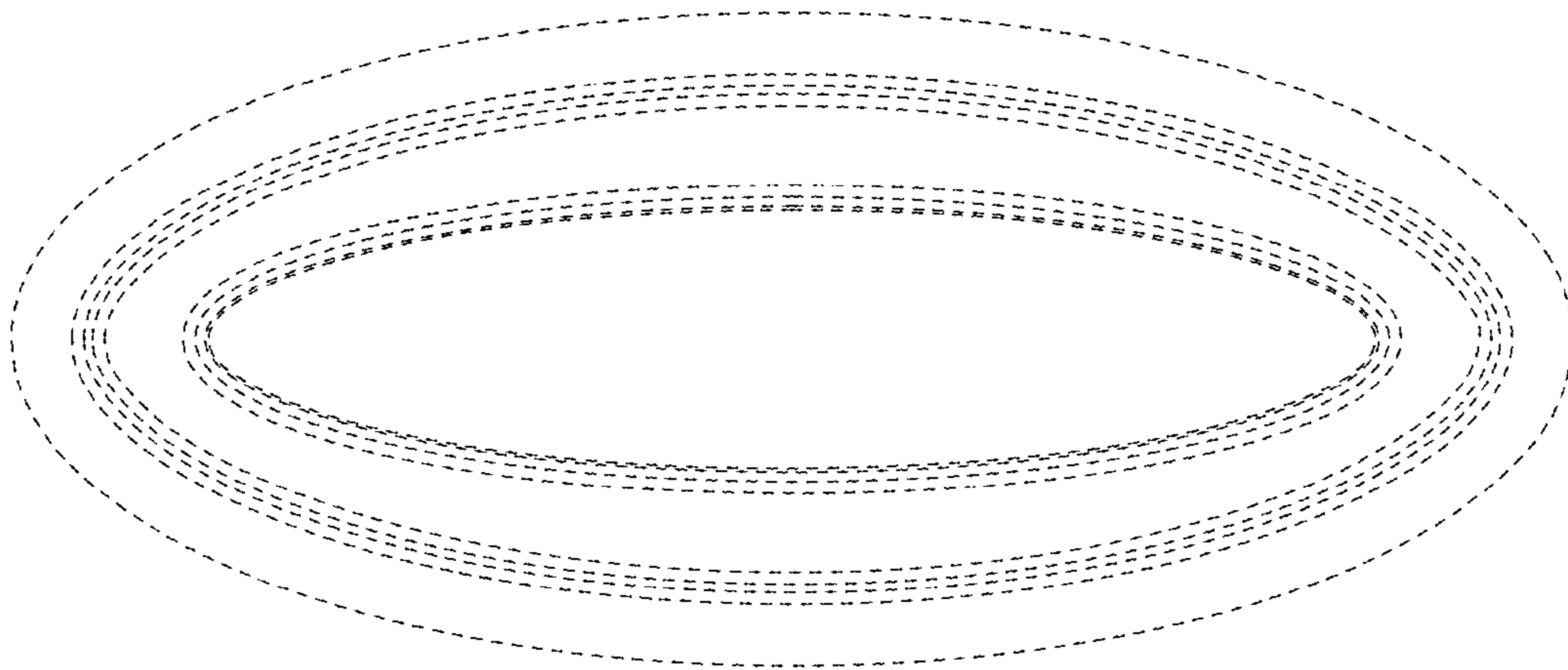


FIG. 9