



US00D870375S

(12) **United States Design Patent** (10) **Patent No.:** **US D870,375 S**
Patil et al. (45) **Date of Patent:** **** Dec. 17, 2019**

(54) **BATTERY FOR AN ELECTRONIC VAPING DEVICE**

(71) Applicant: **Altria Client Services LLC**,
Richmond, VA (US)

(72) Inventors: **Bipin R. Patil**, Richmond, VA (US);
Jarrett Keen, Richmond, VA (US);
Geoffrey Brandon Jordan, Midlothian,
VA (US); **Ryan Bailey**, Richmond, VA
(US); **Michael Roberts**, Richmond, VA
(US)

(73) Assignee: **Altria Client Services LLC**,
Richmond, VA (US)

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

(21) Appl. No.: **29/621,730**

(22) Filed: **Oct. 11, 2017**

(51) **LOC (12) Cl.** **27-99**

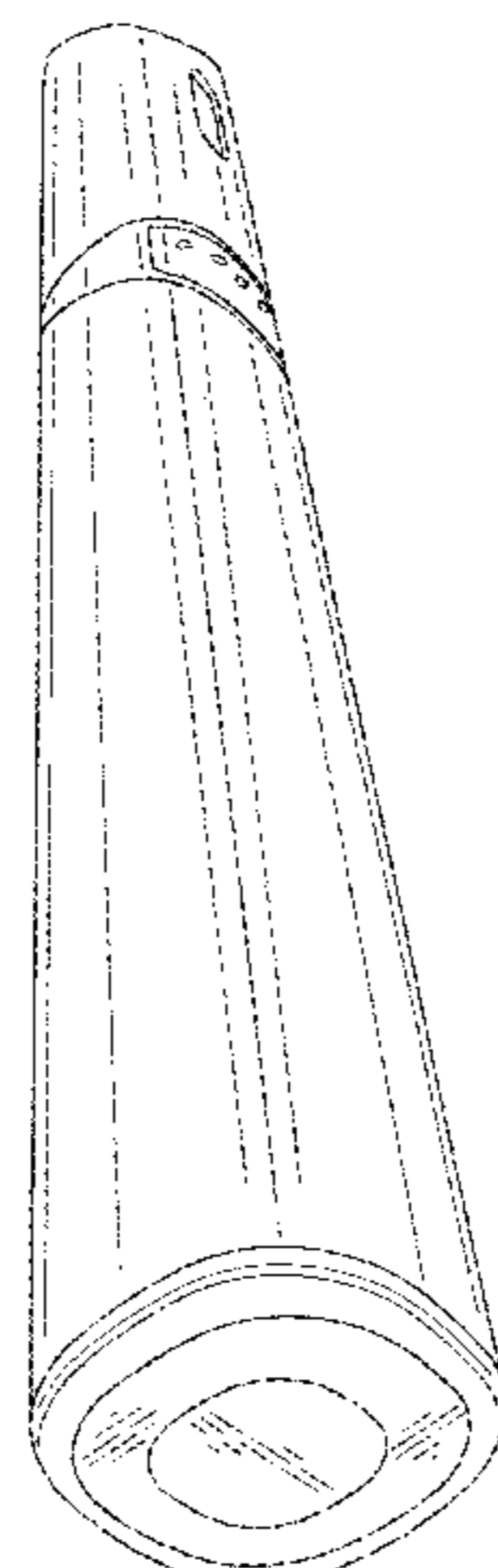
(52) **U.S. Cl.**
USPC **D27/194**

(58) **Field of Classification Search**
USPC D27/100, 101, 102, 103, 104, 105, 125,
D27/137, 162, 163-169, 170, 171,
D27/172-194; D23/366; D13/103, 108,
D13/110; D9/452, 453, 454, 457;
D14/435.1
CPC A24F 1/30; A24F 5/04; A24F 9/00; A24F
47/002; A24F 47/008; A24F 7/00; A61M
15/0021; G06K 7/0004
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS

D292,324 S * 10/1987 Decker D27/170
5,034,721 A 7/1991 Benedictus
5,665,262 A 9/1997 Hajaligol et al.
5,750,964 A 5/1998 Counts et al.
6,603,924 B2 8/2003 Brown et al.
D585,489 S * 1/2009 Han D19/117
D639,337 S * 6/2011 Hung D19/117

D639,338 S * 6/2011 Hung D19/163
D656,192 S * 3/2012 Chen D19/163
D656,545 S * 3/2012 Hung D19/117
8,191,555 B2 6/2012 Herbrich et al.
D667,876 S * 9/2012 Xie D19/163
D669,123 S * 10/2012 Jiang D19/165
D669,124 S * 10/2012 Jiang D19/163
8,375,957 B2 2/2013 Hon
8,393,331 B2 3/2013 Hon
D688,415 S 8/2013 Kim
8,499,766 B1 8/2013 Newton
8,528,569 B1 9/2013 Newton
D693,053 S 11/2013 Chen
D695,450 S 12/2013 Benassayag et al.
8,746,240 B2 6/2014 Terry et al.
8,757,147 B2 6/2014 Terry et al.
8,794,231 B2 8/2014 Thorens et al.
8,833,364 B2 9/2014 Buchberger
8,851,068 B2 10/2014 Cohen et al.
D720,095 S 12/2014 Alima
D720,496 S 12/2014 Alima
D720,881 S 1/2015 Liu
D721,202 S * 1/2015 Liu D27/101
D724,782 S 3/2015 Wu
D725,310 S * 3/2015 Eksouzian D27/101
D728,155 S 4/2015 Liu
D728,156 S 4/2015 Wu
D729,441 S 5/2015 Hua
D732,733 S * 6/2015 Spagnolo D27/101
9,055,617 B2 6/2015 Thorens et al.
9,072,321 B2 7/2015 Liu
9,095,175 B2 8/2015 Terry et al.
9,101,729 B2 8/2015 Liu
9,210,738 B2 12/2015 Ward et al.
9,210,739 B2 12/2015 Chabach et al.
D748,852 S 2/2016 Wu
D749,260 S 2/2016 Wu
D751,249 S 3/2016 Chen
D752,284 S * 3/2016 Doster D27/189
9,271,525 B2 3/2016 Liu
9,282,772 B2 3/2016 Tucker et al.
9,289,014 B2 3/2016 Tucker et al.
D757,352 S * 5/2016 Bagai D27/101
D757,353 S * 5/2016 Nunnally D27/101
D758,649 S 6/2016 Liu
D764,703 S 8/2016 Liu
D765,307 S 8/2016 Liu
9,420,829 B2 8/2016 Thorens et al.
9,427,711 B2 8/2016 Terry et al.
D765,907 S 9/2016 Liu
9,439,455 B2 9/2016 Alarcon et al.
D770,676 S * 11/2016 Bennett D27/101
D773,727 S * 12/2016 Eksouzian D27/101



US D870,375 S

D774,247 S 12/2016 Chen
D775,279 S * 12/2016 Shen D19/117
9,510,623 B2 12/2016 Tucker et al.
D776,337 S * 1/2017 Levin D27/101
D776,869 S * 1/2017 Heidl D27/163
D778,492 S * 2/2017 Liu D27/101
D778,493 S 2/2017 Scott
D780,372 S 2/2017 Liu
D784,610 S * 4/2017 Bosch D27/101
D785,859 S 5/2017 Pang
D786,497 S * 5/2017 Sudlow D27/162
D788,697 S * 6/2017 Verleur D13/103
D790,126 S * 6/2017 Bennett D27/101
D792,643 S * 7/2017 Wong D27/101
D799,110 S * 10/2017 Qiu D27/101
D799,112 S * 10/2017 Qiu D27/101
D799,113 S * 10/2017 Qiu D27/101
D799,745 S * 10/2017 Qiu D27/101
D800,383 S * 10/2017 Verleur D27/167
D800,566 S * 10/2017 Wieland D9/529
D805,684 S * 12/2017 Thuery D27/101
D813,447 S * 3/2018 Watson D27/162
D815,341 S * 4/2018 Qiu D27/101
D816,267 S * 4/2018 Fornarelli D27/101
D818,636 S * 5/2018 Qiu D27/101
D819,263 S * 5/2018 Zhu D27/101
D819,881 S * 6/2018 Qiu D27/101
D827,195 S * 8/2018 Chen D27/101
D833,064 S * 11/2018 Verleur D27/172
D834,246 S * 11/2018 Qiu D27/162
D835,337 S * 12/2018 Beer D27/162
D835,574 S * 12/2018 Trongone D13/103
2006/0231641 A1 10/2006 Uchiyama et al.
2013/0192623 A1 8/2013 Tucker et al.
2013/0255675 A1 10/2013 Liu
2013/0306064 A1 11/2013 Thorens et al.
2013/0306065 A1 11/2013 Thorens et al.
2014/0048086 A1 2/2014 Zhanghua
2014/0261487 A1 9/2014 Chapman et al.
2014/0270729 A1 9/2014 DePiano et al.
2014/0283855 A1 9/2014 Hawes et al.
2014/0283858 A1 * 9/2014 Liu A24F 47/008
131/329
2015/0020823 A1 1/2015 Lipowicz et al.
2015/0027470 A1 1/2015 Kane et al.
2015/0034104 A1 * 2/2015 Zhou A24F 47/008
131/329
2015/0083147 A1 3/2015 Schiff et al.
2015/0101625 A1 4/2015 Newton et al.
2015/0128973 A1 5/2015 Li et al.
2015/0144145 A1 5/2015 Chang et al.
2015/0181930 A1 7/2015 Liu
2015/0181944 A1 7/2015 Li et al.
2015/0216236 A1 8/2015 Bless et al.
2015/0245654 A1 9/2015 Memari et al.
2015/0245658 A1 9/2015 Worm et al.
2015/0272217 A1 10/2015 Chen
2015/0305410 A1 10/2015 Liu
2015/0313275 A1 11/2015 Anderson et al.
2015/0313282 A1 11/2015 Ademe et al.
2015/0328415 A1 11/2015 Minskoff et al.
2015/0335075 A1 11/2015 Minskoff et al.
2015/0351456 A1 12/2015 Johnson et al.
2016/0073694 A1 3/2016 Liu
2016/0091194 A1 3/2016 Liu
2016/0100633 A1 4/2016 Gao
2016/0150828 A1 6/2016 Goldstein et al.
2016/0183596 A1 6/2016 Rado
2016/0192709 A1 7/2016 Liu
2016/0227837 A1 8/2016 Hammel et al.
2016/0242466 A1 8/2016 Lord et al.
2016/0262453 A1 9/2016 Ampolini et al.
2016/0309785 A1 10/2016 Holtz
2016/0309786 A1 10/2016 Holtz et al.
2016/0309787 A1 10/2016 Hawes et al.
2016/0309788 A1 10/2016 Hawes et al.
2016/0324216 A1 11/2016 Li et al.
2016/0331037 A1 11/2016 Cameron
2016/0331912 A1 * 11/2016 Trzeciecki A61M 11/042

2016/0360789 A1 12/2016 Hawes et al.
2016/0366947 A1 12/2016 Monsees et al.
2017/0000192 A1 1/2017 Li
2017/0013880 A1 1/2017 O'Brien et al.
2017/0042240 A1 2/2017 Murison
2017/0064999 A1 3/2017 Perez et al.
2017/0079323 A1 3/2017 Wang
2017/0150757 A1 6/2017 Worm et al.
2017/0174914 A1 6/2017 Matsumura et al.
2017/0215478 A1 * 8/2017 Harrison A24F 7/02
2017/0231283 A1 8/2017 Gadas
2017/0258142 A1 * 9/2017 Hatton A24F 47/008
2017/0325502 A1 11/2017 Nelson et al.
2018/0007954 A1 * 1/2018 Mishra A24F 1/32
2018/0027879 A1 2/2018 Gavriellov et al.
2018/0042302 A1 * 2/2018 Robinson A61M 15/06
2018/0098571 A1 * 4/2018 Watson A24F 47/008
2018/0117268 A1 * 5/2018 Selby A61M 11/042
2018/0153221 A1 * 6/2018 Verleur A24F 47/008
2018/0177234 A1 * 6/2018 Lee A24F 9/16

FOREIGN PATENT DOCUMENTS

CN	203538371	U	4/2014
CN	203762291	U	8/2014
EM	002337410-0009		11/2013
EM	002337410-0012		11/2013
EM	002403444-0003		2/2014
EM	002412106-0001		3/2014
EM	001420327-0005		11/2017
EP	2574247	A1	4/2013
EP	3015010	A1	5/2016
EP	3075270	A1	10/2016
EP	3135139	A1	3/2017
ES	D0518506-03		1/2013
ES	D0517952-09		10/2013
ES	D0518082-12		11/2013
ES	D0518097-04		11/2013
ES	D0518201-12		11/2013
ES	D0518036-03		12/2013
ES	D0518299-03		12/2013
ES	D0518462-09		1/2014
ES	D0519904-04		9/2014
GB	4032478		11/2013
PL	21430-0001		5/2015
PT	3429-0001		11/2013
PT	3428-0003		12/2013
PT	3771-0007		8/2014
RS	9612-0001		3/2000
TR	201307255-0001		1/2014
WO	WO-9406314	A1	3/1994
WO	WO-2007/078273	A1	7/2007
WO	WO-2014/066730	A1	5/2014
WO	WO-2015/114327	A1	8/2015
WO	WO-2015/124688	A1	8/2015
WO	WO-2015131428	A1	9/2015
WO	WO-2016/079152	A1	5/2016
WO	WO-2016162492	A1	10/2016
WO	WO-2017021536	A2	2/2017
WO	WO-2017/084849	A1	5/2017

OTHER PUBLICATIONS

U.S. Appl. No. 15/729,909, filed Oct. 11, 2017.
U.S. Appl. No. 15/729,895, filed Oct. 11, 2017.
U.S. Appl. No. 15/349,377, filed Nov. 11, 2016.
“The Stunning High Tech PCC Love eCig Smart Pod Starter Kit”—<http://www.sbwire.com/press-releases/the-stunning-high-tech-pcc-love-ecig-smart-pod-starter-kit-147288.htm>.
International Search Report and Written Opinion thereof dated Jan. 22, 2019 for corresponding International Application No. PCT/EP2018/077806.
Innokin Recommends New Electronic Cigarette to Smokers, last updated May 18, 2017.
T Spindle, “Examination of Electronic Cigarette User Puff Topography: The Effect of a Mouthpiece-Based Topography Measurement Device on Plasma Nicotine and Subjective Effects”, VCU Scholars Compass, Sep. 2015.

International Search Report and Written Opinion thereof dated Jan. 21, 2019 for corresponding International Application No. PCT/EP2018/077799.

International Search Report and Written Opinion dated Mar. 20, 2019 for International Application No. PCT/EP2018/086849.

* cited by examiner

Primary Examiner — Marissa J Cash

(74) *Attorney, Agent, or Firm* — Harness, Dickey & Pierce, P.L.C.

(57) **CLAIM**

The ornamental design for a battery for an electronic vaping device, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a battery for an electronic vaping device according to a first embodiment; FIG. 2 is a back perspective view of a battery for an electronic vaping device according to a first embodiment; FIG. 3 is a front view of the battery for an electronic vaping device according to a first embodiment; FIG. 4 is a back view of the battery for an electronic vaping device according to a first embodiment; FIG. 5 is a first side view of the battery for an electronic vaping device according to a first embodiment;

FIG. 6 is an opposite side view of the battery for an electronic vaping device according to a first embodiment; FIG. 7 is a top view of the battery for an electronic vaping device according to a first embodiment; FIG. 8 is a bottom view of the battery for an electronic vaping device according to a first embodiment; FIG. 9 is a front perspective view of a battery for an electronic vaping device according to a second embodiment; FIG. 10 is a back perspective view of a battery for an electronic vaping device according to a second embodiment; FIG. 11 is a front view of the battery for an electronic vaping device according to a second embodiment; FIG. 12 is a back view of the battery for an electronic vaping device according to a second embodiment; FIG. 13 is a first side view of the battery for an electronic vaping device according to a second embodiment; FIG. 14 is an opposite side view of the battery for an electronic vaping device according to a second embodiment; FIG. 15 is a top view of the battery for an electronic vaping device according to a second embodiment; and, FIG. 16 is a bottom view of the battery for an electronic vaping device according to a second embodiment. The broken lines immediately adjacent the claimed areas represent the bounds of the claimed design while all other broken lines are directed to portions of the battery for an electronic vaping device that form no part of the claim; the broken lines form no part of the claimed design.

1 Claim, 16 Drawing Sheets

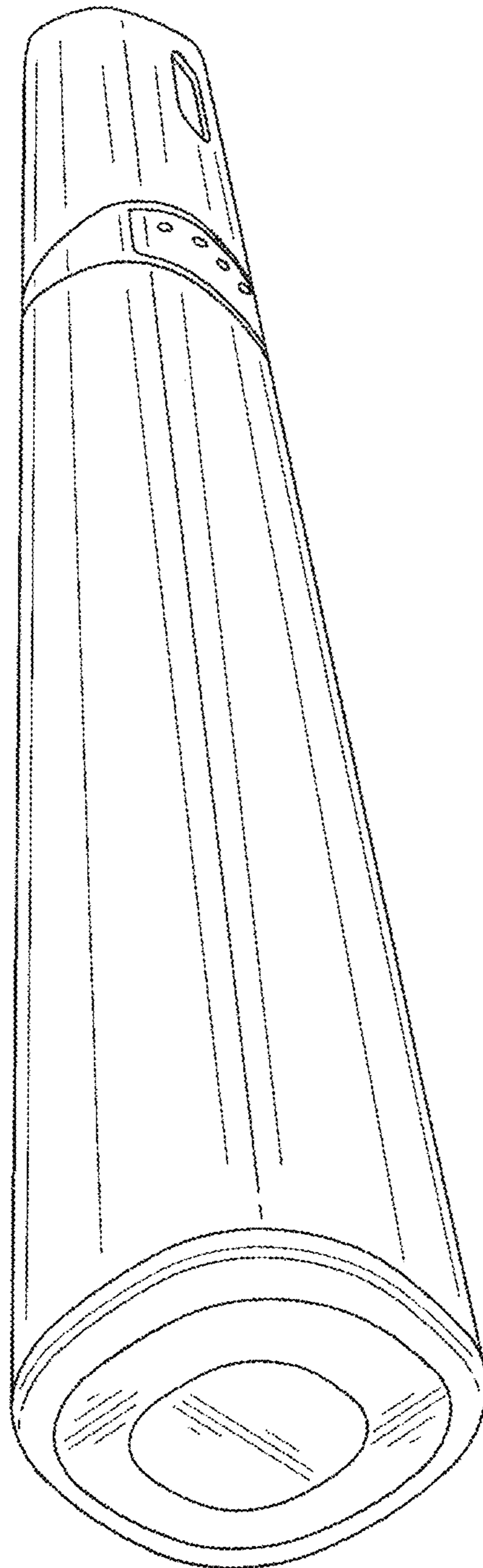


FIG. 1

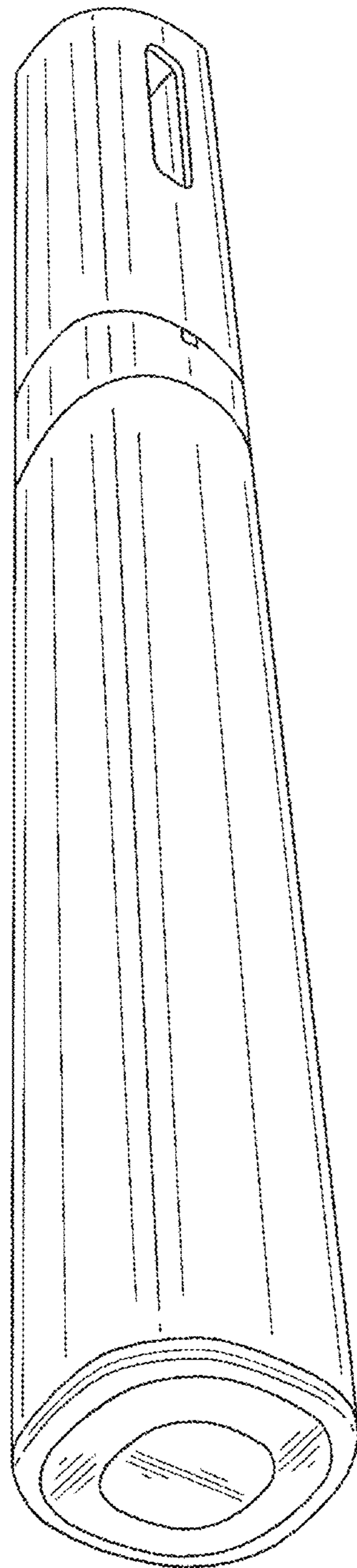


FIG. 2

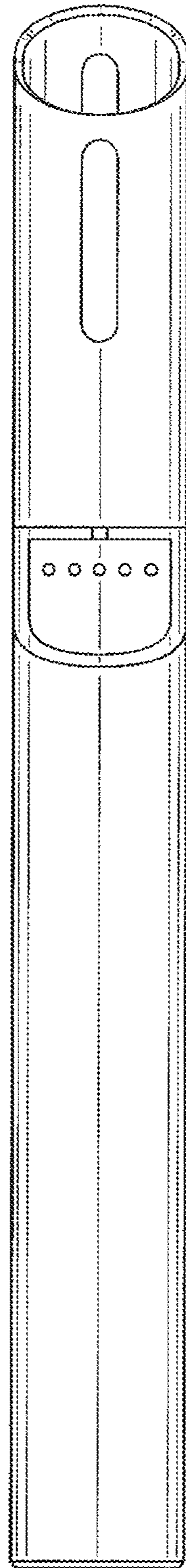


FIG. 3

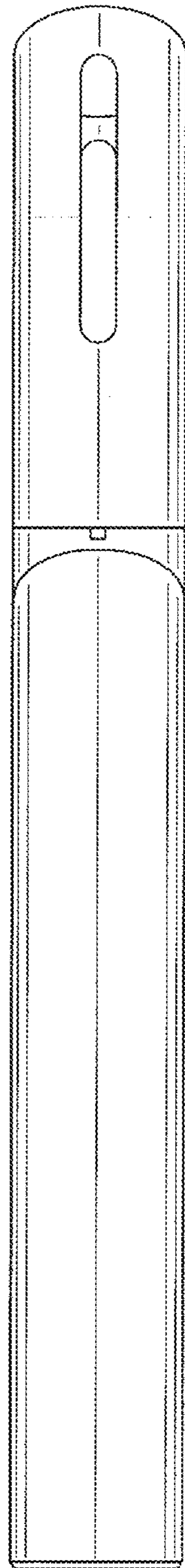


FIG. 4

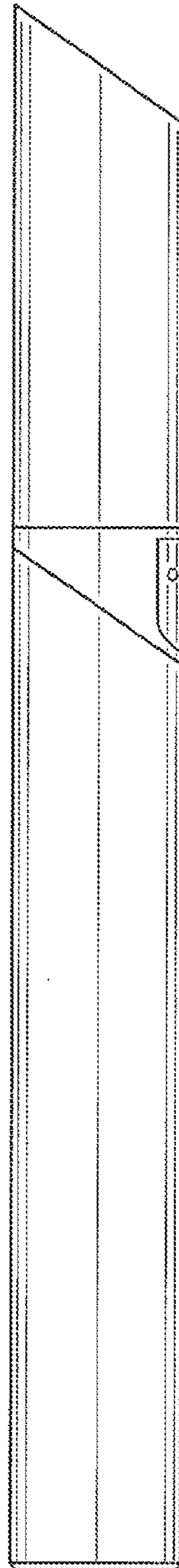


FIG. 5

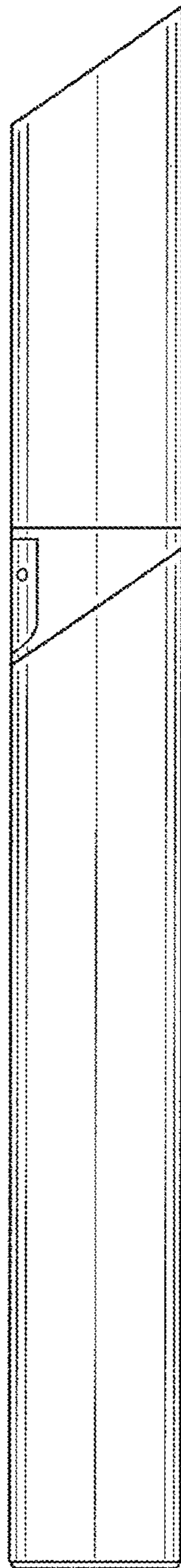


FIG. 6

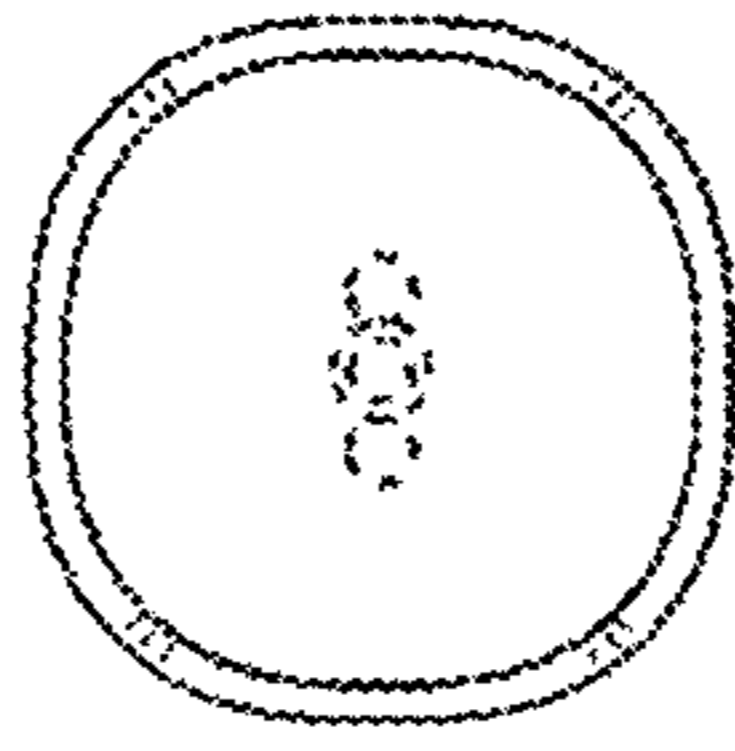


FIG. 7

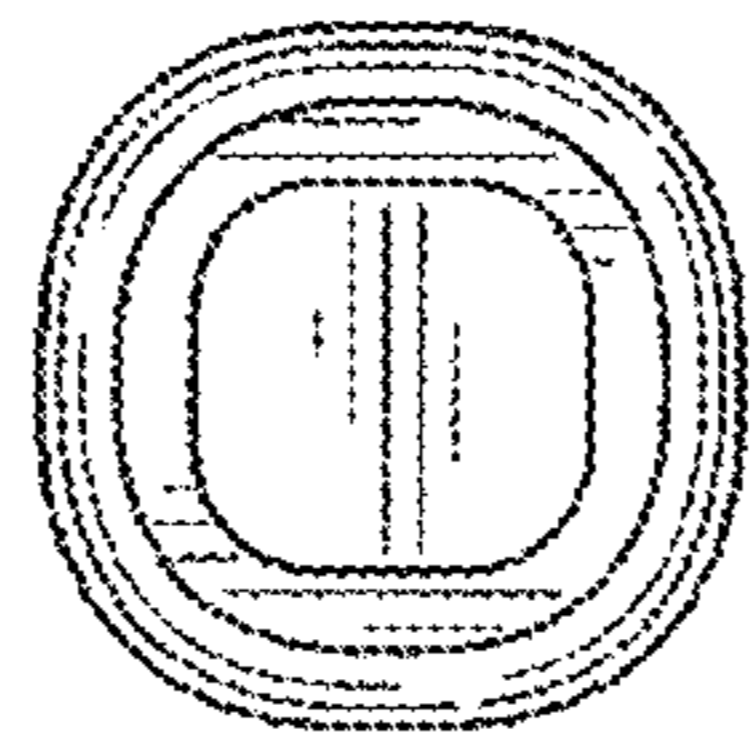


FIG. 8

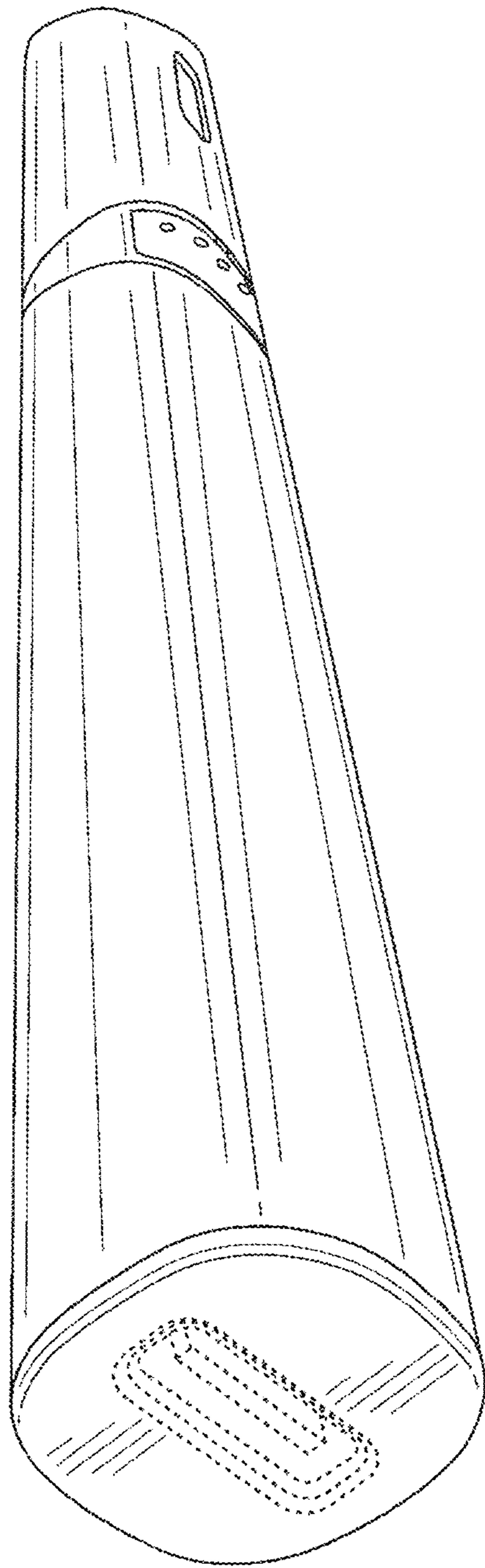


FIG. 9

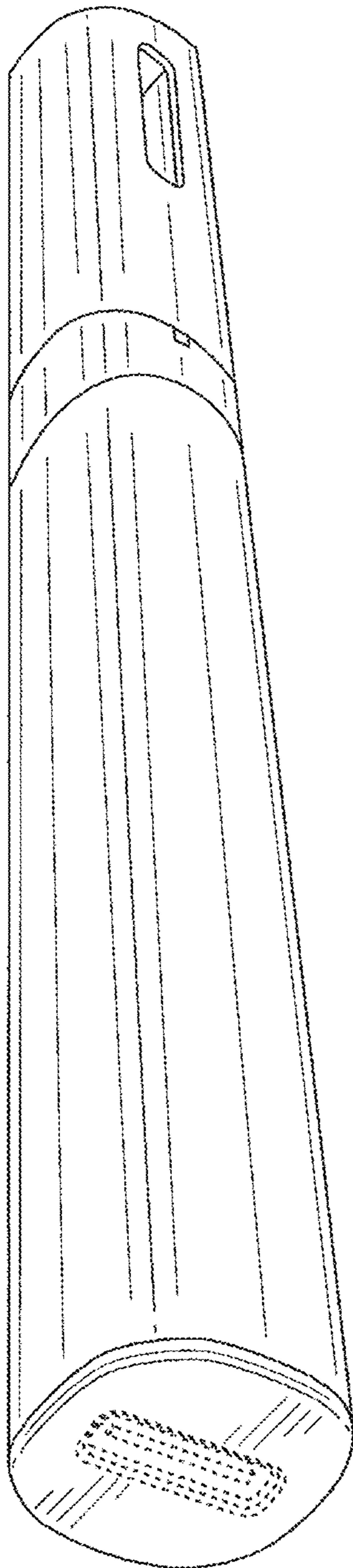


FIG. 10

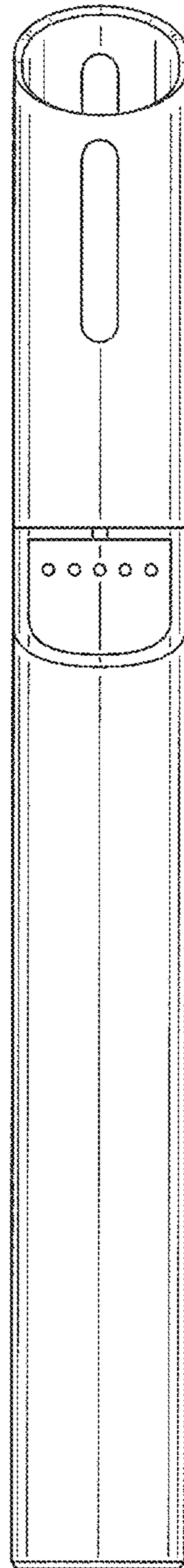


FIG. 11

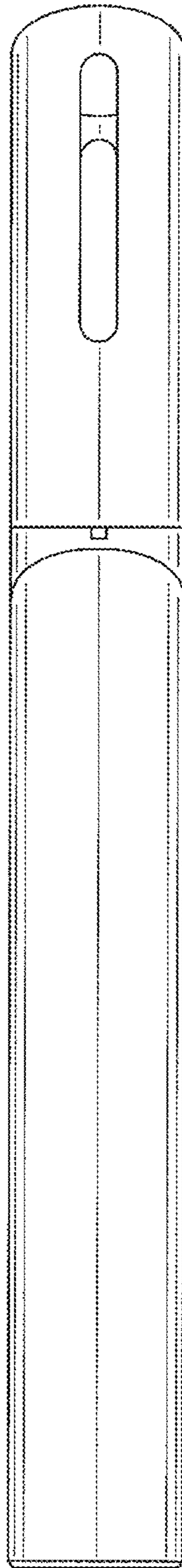


FIG. 12

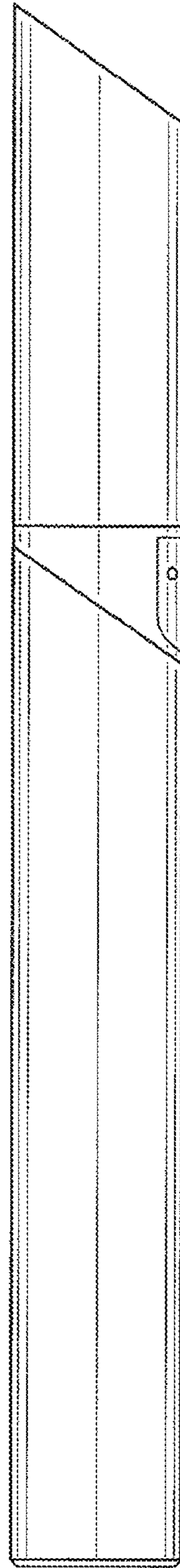


FIG. 13

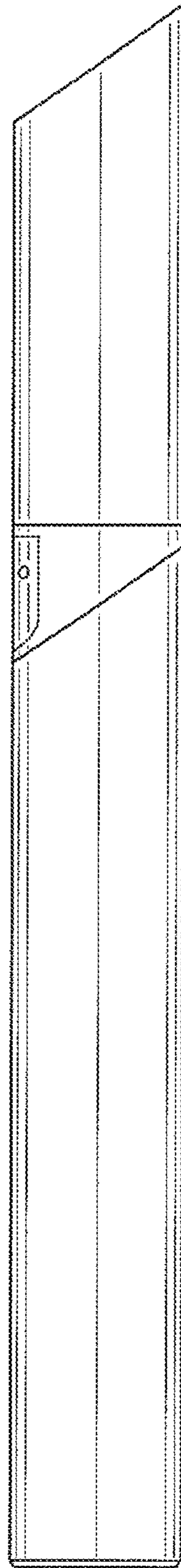


FIG. 14

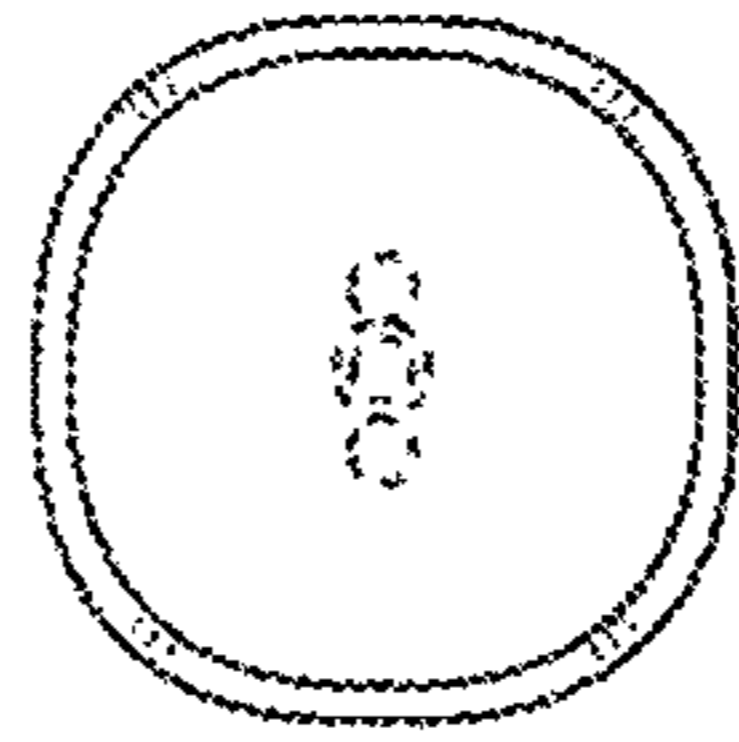


FIG. 15

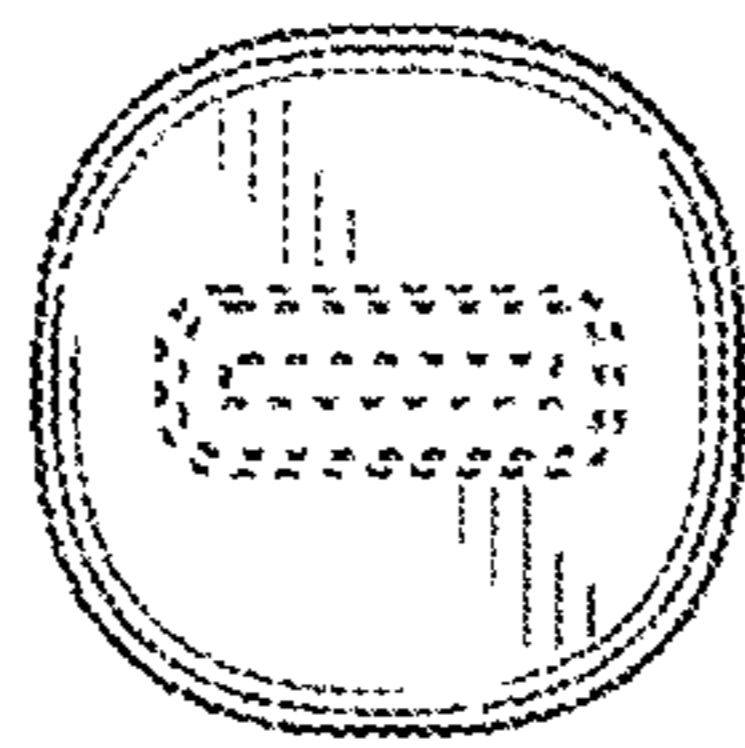


FIG. 16