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(12) **United States Design Patent** (10) **Patent No.:** **US D916,277 S**
Nicholas et al. (45) **Date of Patent:** **** Apr. 13, 2021**

(54) **INJECTION DEVICE**

5/31585; A61M 2005/2407; A61M
2005/2492; A61M 2205/581; A61M
2205/582

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See application file for complete search history.

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(56)

References Cited

U.S. PATENT DOCUMENTS

(73) Assignees: **Sanofi-Aventis Deutschland GMBH**,
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4,046,145 A	9/1977	Choksi et al.
4,840,185 A	6/1989	Hernandez
4,900,309 A	2/1990	Netherton et al.
4,986,817 A	1/1991	Code
5,147,328 A	9/1992	Dragosits et al.
5,336,197 A	8/1994	Kuracina et al.
5,509,903 A	4/1996	Grendahl et al.
5,519,931 A	5/1996	Reich
5,554,127 A	9/1996	Crouther et al.
5,554,133 A	9/1996	Haffner et al.
5,716,346 A	2/1998	Farris
5,843,036 A	12/1998	Olive et al.
5,997,513 A	12/1999	Smith et al.
D426,299 S	6/2000	Bydlon et al.
D428,651 S	7/2000	Andersson et al.
6,206,855 B1	3/2001	Kunkel et al.
D462,760 S	9/2002	Ahlgrim et al.
D479,599 S	9/2003	Bainton
D479,601 S	9/2003	Tyce
D479,602 S	9/2003	Bainton
D479,603 S	9/2003	Tyce
D479,747 S	9/2003	Bainton
D479,748 S	9/2003	Tyce
D481,120 S	10/2003	Hawley et al.
D488,864 S	4/2004	Fago et al.
D490,149 S	5/2004	Hawley et al.
D490,150 S	5/2004	Hawley et al.
D490,151 S	5/2004	Hawley et al.
D492,027 S	6/2004	Tyce et al.
D492,405 S	6/2004	Bainton
D493,526 S	7/2004	Hwang
7,189,217 B2	3/2007	Chang et al.
7,307,265 B2	12/2007	Polsinelli et al.
D561,894 S	2/2008	Hudson
7,338,474 B2	3/2008	Kirk
7,414,254 B2	8/2008	Polsinelli et al.
D581,047 S	11/2008	Koshidaka
7,449,012 B2	11/2008	Young et al.
D598,539 S	8/2009	Tyce
D599,008 S	8/2009	Tyce
D599,009 S	8/2009	Tyce
D599,010 S	8/2009	Tyce
D599,011 S	8/2009	Tyce
D600,794 S	9/2009	Tyce

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

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Related U.S. Application Data

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25, 2018, now Pat. No. Des. 892,311.

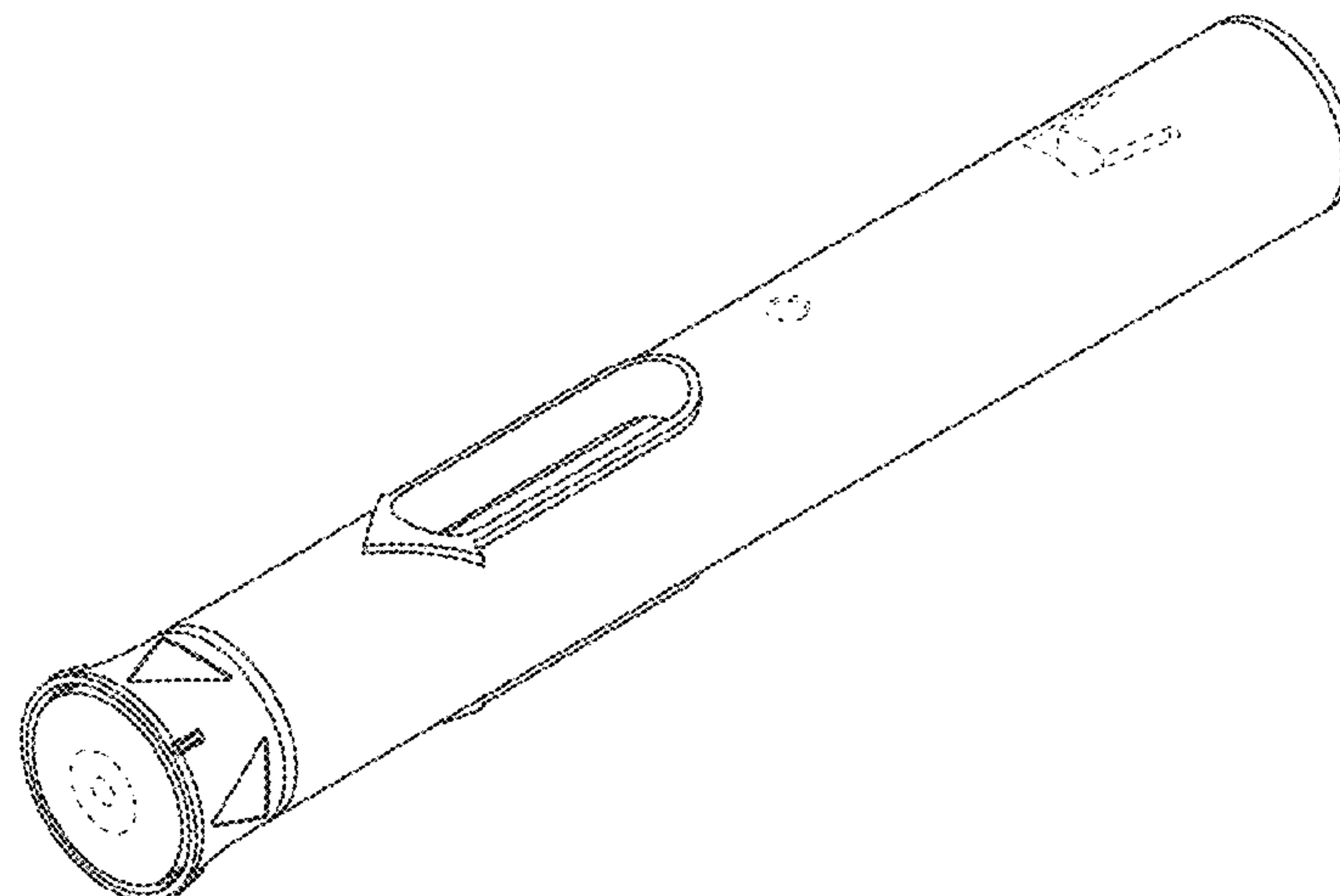
(30) **Foreign Application Priority Data**

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(52) **U.S. Cl.**
USPC **D24/113**

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606/181, 185; 604/264, 272, 115, 232,
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128/200.24, 207.14, 207.15;
D19/115-123, 177, 193
CPC A61M 5/3156; A61M 5/31591; A61M
5/3155; A61M 5/3157; A61M 5/24;
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D600,795 S 9/2009 Tyce
 D606,649 S 12/2009 Tyce
 D606,650 S 12/2009 Tyce
 7,635,348 B2 12/2009 Raven et al.
 D608,442 S 1/2010 Tyce
 D610,251 S 2/2010 Tyce
 D610,252 S 2/2010 Tyce
 D610,676 S 2/2010 Tyce
 D612,486 S 3/2010 Van der Stappen
 7,682,155 B2 3/2010 Raven et al.
 D619,247 S 7/2010 Loe, Jr.
 7,794,432 B2 9/2010 Young et al.
 D628,690 S 12/2010 Galbraith
 7,846,136 B2 12/2010 Witowski
 7,905,352 B2 3/2011 Wyrick
 D641,077 S 7/2011 Sanders et al.
 D651,305 S 12/2011 Hawley et al.
 8,269,201 B2 9/2012 Fago et al.
 D671,638 S 11/2012 Young et al.
 D676,957 S 2/2013 Schneider et al.
 8,376,998 B2 2/2013 Daily et al.
 D677,380 S 3/2013 Julian et al.
 D688,790 S 8/2013 Guarraia et al.
 D688,791 S 8/2013 Guarraia et al.
 D688,793 S 8/2013 Guarraia et al.
 D690,416 S 9/2013 Cappello et al.
 8,529,510 B2 9/2013 Giambattista et al.
 D692,129 S 10/2013 Dubuc et al.
 D694,879 S 12/2013 Julian et al.
 D695,892 S 12/2013 Cappello et al.
 D696,397 S 12/2013 Guarraia et al.
 D696,771 S 12/2013 Schneider et al.
 D696,773 S 12/2013 Schneider et al.
 D696,775 S 12/2013 Guarraia et al.
 D697,205 S 1/2014 Schneider et al.
 D703,314 S 4/2014 Schneider et al.
 D707,351 S 6/2014 Kunze
 D707,352 S 6/2014 Liu et al.
 D708,317 S 7/2014 Schneider et al.
 8,801,679 B2 8/2014 Iio et al.
 8,821,451 B2 9/2014 Daniel
 D714,932 S 10/2014 Hall et al.
 D715,422 S 10/2014 Hall et al.
 D716,442 S 10/2014 Magome et al.
 8,864,718 B2 10/2014 Karlsen et al.
 8,870,827 B2 10/2014 Young et al.
 D717,428 S 11/2014 Sendatzki et al.
 D717,940 S 11/2014 Magome et al.
 8,888,713 B2 11/2014 Crawford et al.
 D728,782 S 5/2015 Dubuc et al.
 9,022,982 B2 5/2015 Karlsson et al.
 9,078,973 B2 7/2015 Harms et al.
 9,132,236 B2 9/2015 Karlsson et al.
 D740,937 S 10/2015 Schneider et al.
 9,199,038 B2 12/2015 Daniel
 9,216,251 B2 12/2015 Daniel
 9,220,841 B2 12/2015 Daniel
 9,220,847 B2 12/2015 Holmqvist et al.
 9,247,899 B2 2/2016 Shaw et al.
 D752,211 S 3/2016 Sanders et al.
 D755,369 S 5/2016 Sanders et al.
 D755,370 S 5/2016 Riess et al.
 D757,254 S 5/2016 Wohlfahrt et al.
 D757,255 S 5/2016 Wohlfahrt et al.
 D758,567 S 6/2016 Wohlfahrt et al.
 D758,568 S 6/2016 Wohlfahrt et al.
 D758,569 S 6/2016 Wohlfahrt et al.
 D764,657 S 8/2016 Bokelman et al.
 D770,038 S 10/2016 Ahlgrim et al.
 9,468,722 B2 10/2016 Olson
 D770,610 S 11/2016 Sasaye et al.
 D773,039 S 11/2016 Sanders et al.
 D773,648 S 12/2016 Wohlfahrt et al.
 D774,641 S 12/2016 Miggels et al.
 D777,907 S 1/2017 Amend Kwasnik et al.
 9,566,380 B1 2/2017 Tcholakian
 D780,909 S 3/2017 Burkett et al.
 9,586,010 B2 3/2017 Mesa et al.
 9,604,004 B2 3/2017 Jakobsen

D793,547 S 8/2017 Burkett et al.
 D794,178 S 8/2017 Daniel et al.
 D810,282 S 2/2018 Ratjen
 D814,022 S 3/2018 Boyaval et al.
 D819,198 S 5/2018 Boyaval et al.
 D819,200 S 5/2018 Stonecipher et al.
 D822,198 S 7/2018 Stonecipher et al.
 D827,127 S 8/2018 Donnelly
 2004/0116875 A1 6/2004 Fischer et al.
 2007/0039156 A1 2/2007 Reich
 2007/0113861 A1 5/2007 Knudsen et al.
 2008/0009808 A1 1/2008 Berler
 2008/0269692 A1 10/2008 James et al.
 2008/0289984 A1 11/2008 Raven et al.
 2013/0030375 A1 1/2013 Daily et al.
 2013/0041328 A1 2/2013 Daniel
 2013/0041347 A1 2/2013 Daniel
 2013/0281934 A1 10/2013 Wilmot et al.
 2014/0330216 A1 11/2014 Weaver et al.
 2014/0358037 A1 12/2014 Crawford et al.
 2014/0364812 A1 12/2014 Lumme et al.
 2015/0011944 A1 1/2015 Young et al.
 2015/0045742 A1 2/2015 Cheung
 2015/0051580 A1 2/2015 Shain et al.
 2015/0065960 A1 3/2015 Osman
 2015/0073383 A1 3/2015 Wilmot et al.
 2015/0080807 A1 3/2015 Schneider et al.
 2015/0352278 A1 12/2015 Morita et al.
 2015/0374918 A1 12/2015 Kumar et al.
 2016/0051760 A1 2/2016 Krell et al.
 2016/0051764 A1 2/2016 Dreier et al.
 2016/0067407 A1 3/2016 Daniel
 2016/0089498 A1 3/2016 Daniel
 2016/0144132 A1 5/2016 Scanlon
 2016/0158460 A1 6/2016 Mesa et al.
 2016/0213845 A1 7/2016 Holmqvist
 2016/0263327 A1 9/2016 Radmer et al.
 2016/0279334 A1 9/2016 Daniel
 2016/0303327 A1 10/2016 Moren
 2016/0317745 A1 11/2016 Kjeldsen et al.
 2016/0375196 A1 12/2016 Wilmot et al.
 2018/0104414 A1 4/2018 Karlsson et al.
 2018/0154078 A1 6/2018 Mosebath et al.
 2018/0311442 A1 11/2018 Saussaye et al.
 2018/0353692 A1 12/2018 Saussaye et al.
 2018/0361082 A1 12/2018 Sall et al.

FOREIGN PATENT DOCUMENTS

EP	2716318	4/2014
FR	3043562	5/2017
WO	WO 2015/026737	2/2015
WO	WO 2019/006296	1/2019

OTHER PUBLICATIONS

PCT International Preliminary Report on Patentability in International Appln. No. PCT/US2018/040282, dated Dec. 31, 2019, 7 pages.

PCT International Search Report and Written Opinion in International Appln. No. PCT/US2018/040282, dated Nov. 13, 2018, 9 pages.

shl-group.com [online], "Molly Auto Injectors," Mar. 27, 2019, Retrieved on Jul. 26, 2018, retrieved from URL <http://www.shl-group.com/Products_SHLMedical_AutoInjectors_Molly.html>, 3 pages.

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(57)

CLAIM

The ornamental design for an injection device, substantially as shown and described.

DESCRIPTION

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent publication

with color drawings(s) will be provided by the Office upon request and payment of the necessary fee.

Injection device with cap—color #1

FIG. 1 is a first embodiment of a first perspective view of an injection device showing our new design;

FIG. 2 is a second perspective view thereof;

FIG. 3 is a front view thereof;

FIG. 4 is a back view thereof;

FIG. 5 is a side view thereof;

FIG. 6 is a top view thereof; and,

FIG. 7 is a bottom view thereof.

Injection device with cap—color #2

FIG. 8 is a second embodiment of a first perspective view of an injection device showing our new design;

FIG. 9 is a second perspective view thereof;

FIG. 10 is a front view thereof;

FIG. 11 is a back view thereof;

FIG. 12 is a side view thereof;

FIG. 13 is a top view thereof; and

FIG. 14 is a bottom view thereof.

Injection device with cap—color #3

FIG. 15 is a third embodiment of a first perspective view of an injection device showing our new design;

FIG. 16 is a second perspective view thereof;

FIG. 17 is a front view thereof;

FIG. 18 is a back view thereof;

FIG. 19 is a side view thereof;

FIG. 20 is a top view thereof; and

FIG. 21 is a bottom view thereof.

Injection device with cap—line drawing

FIG. 22 is a fourth embodiment of a first perspective view of an injection device showing our new design;

FIG. 23 is a second perspective view thereof;

FIG. 24 is a front view thereof;

FIG. 25 is a back view thereof;

FIG. 26 is a side view thereof;

FIG. 27 is a top view thereof; and,

FIG. 28 is a bottom view thereof.

The broken lines show portions of the design that form no part of the claimed design.

**1 Claim, 16 Drawing Sheets
(12 of 16 Drawing Sheet(s) Filed in Color)**

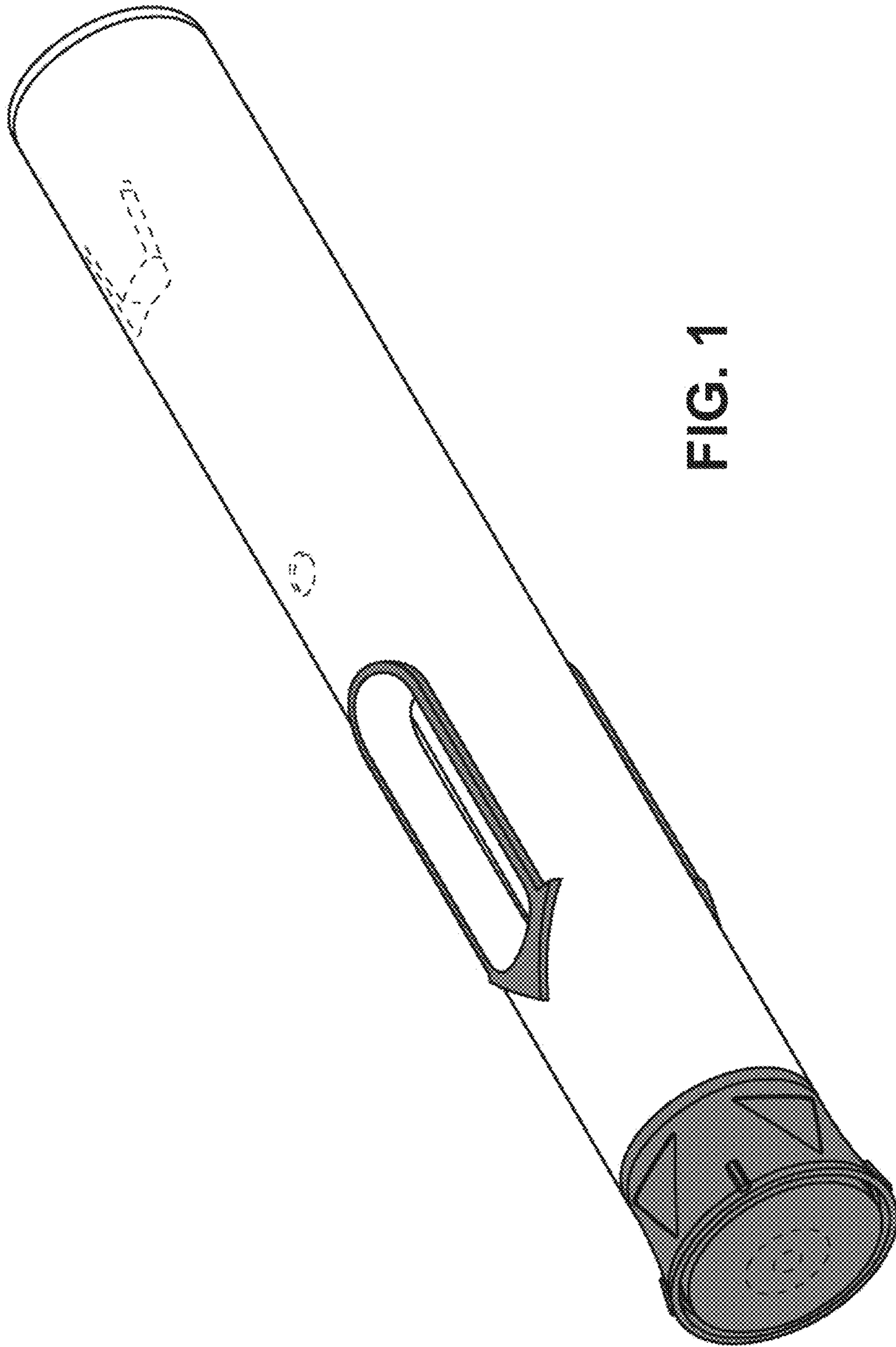


FIG. 1

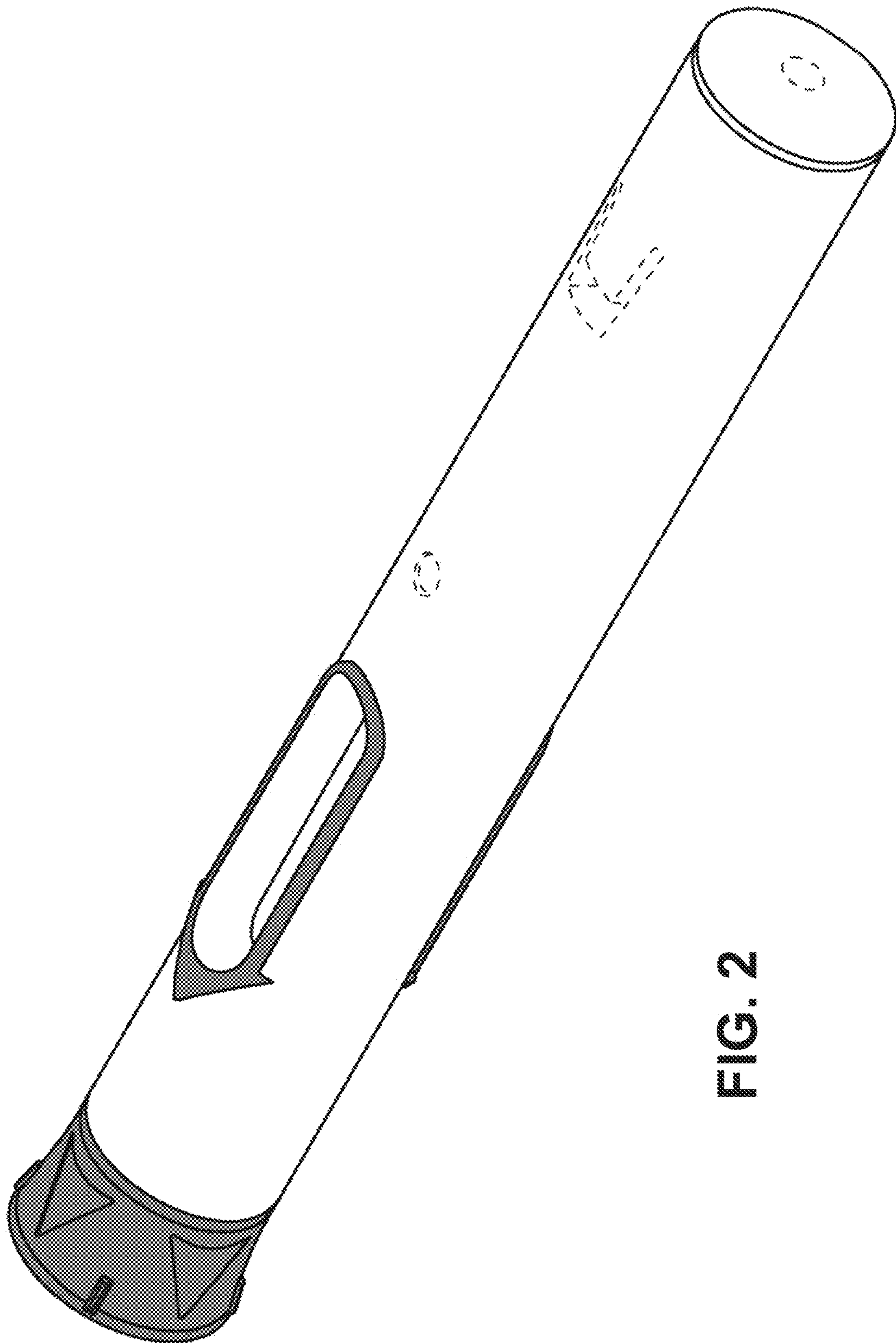


FIG. 2

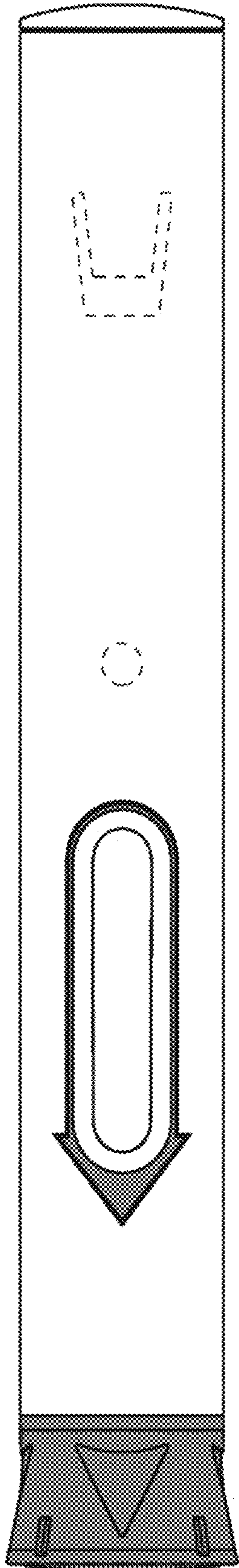


FIG. 3

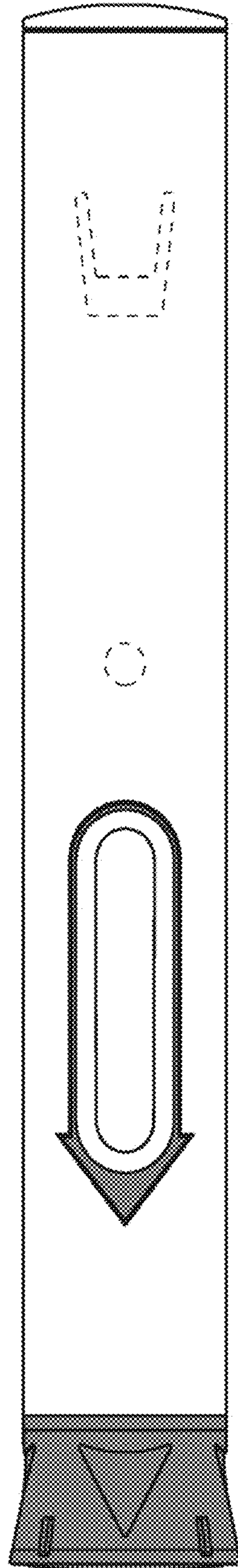


FIG. 4

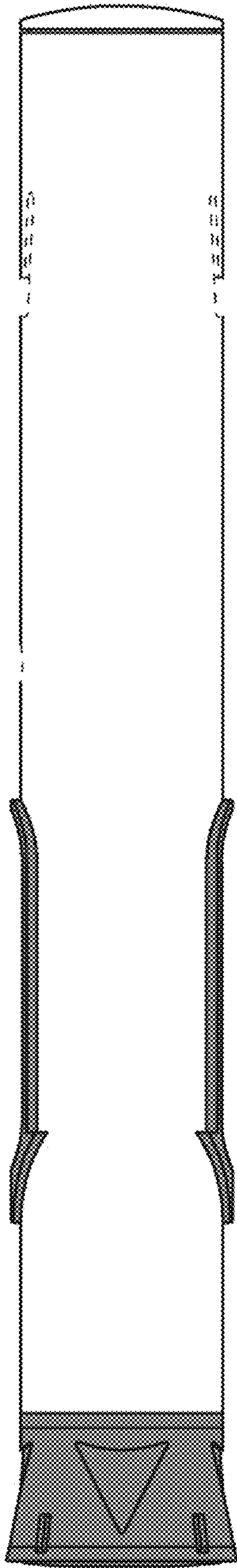


FIG. 5

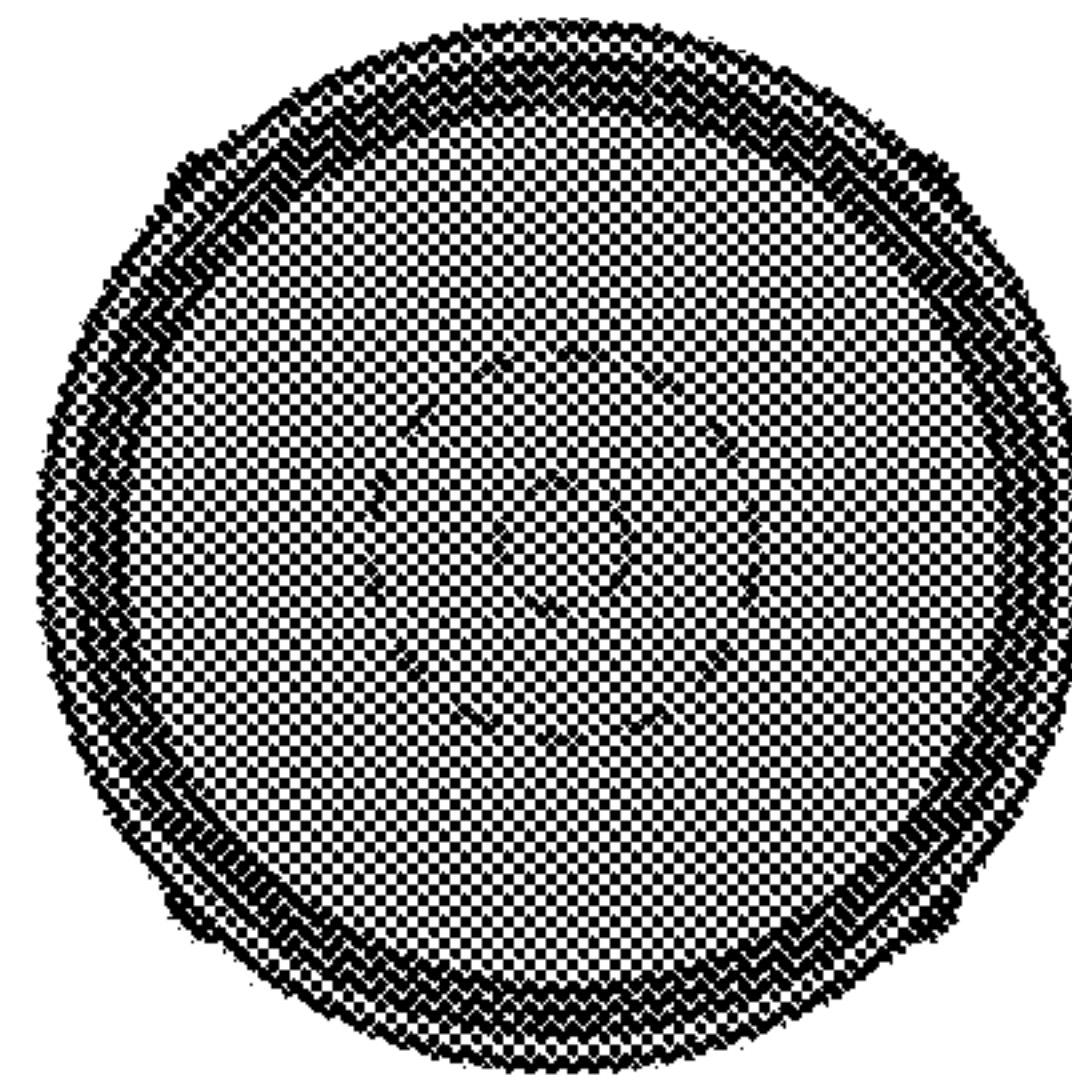


FIG. 6

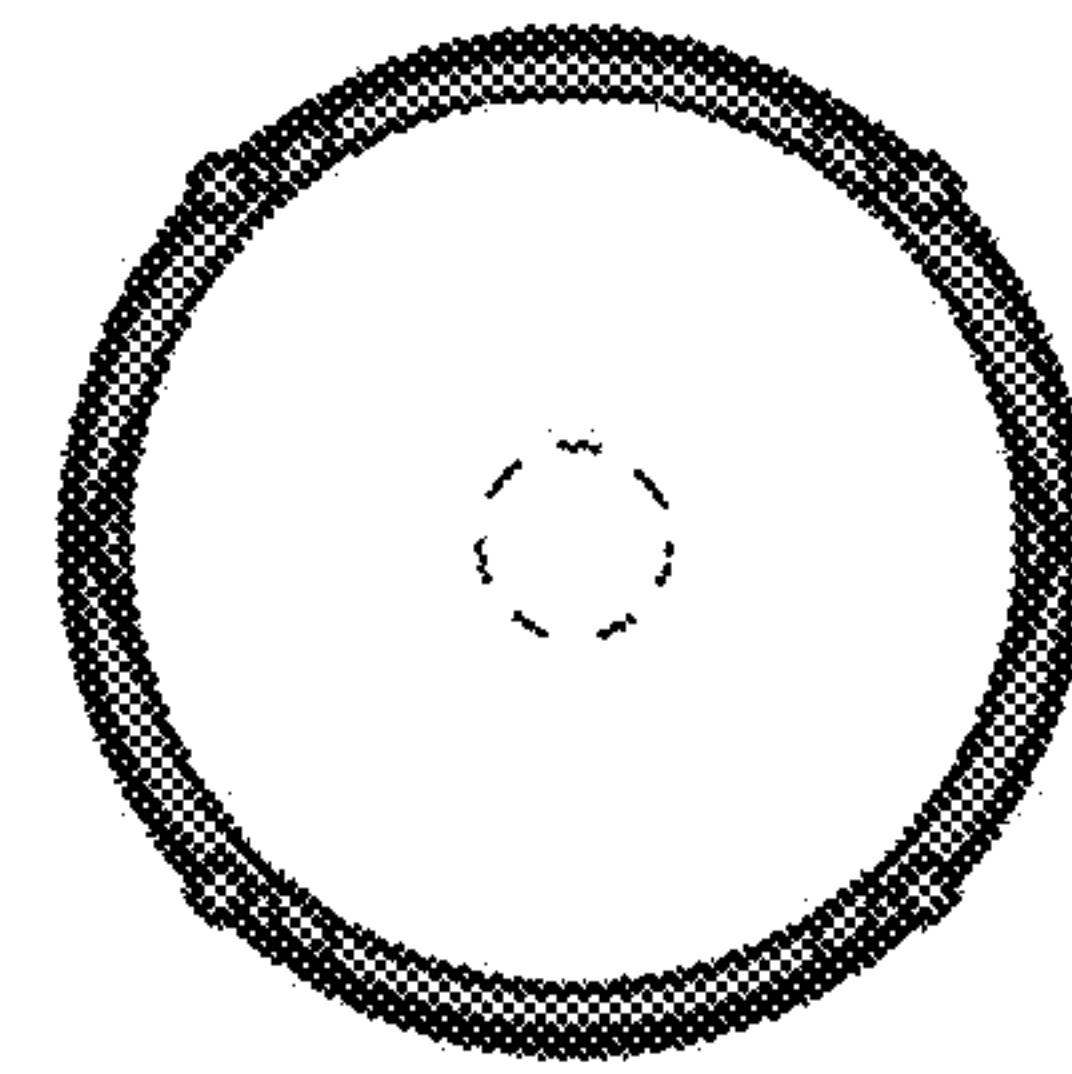


FIG. 7

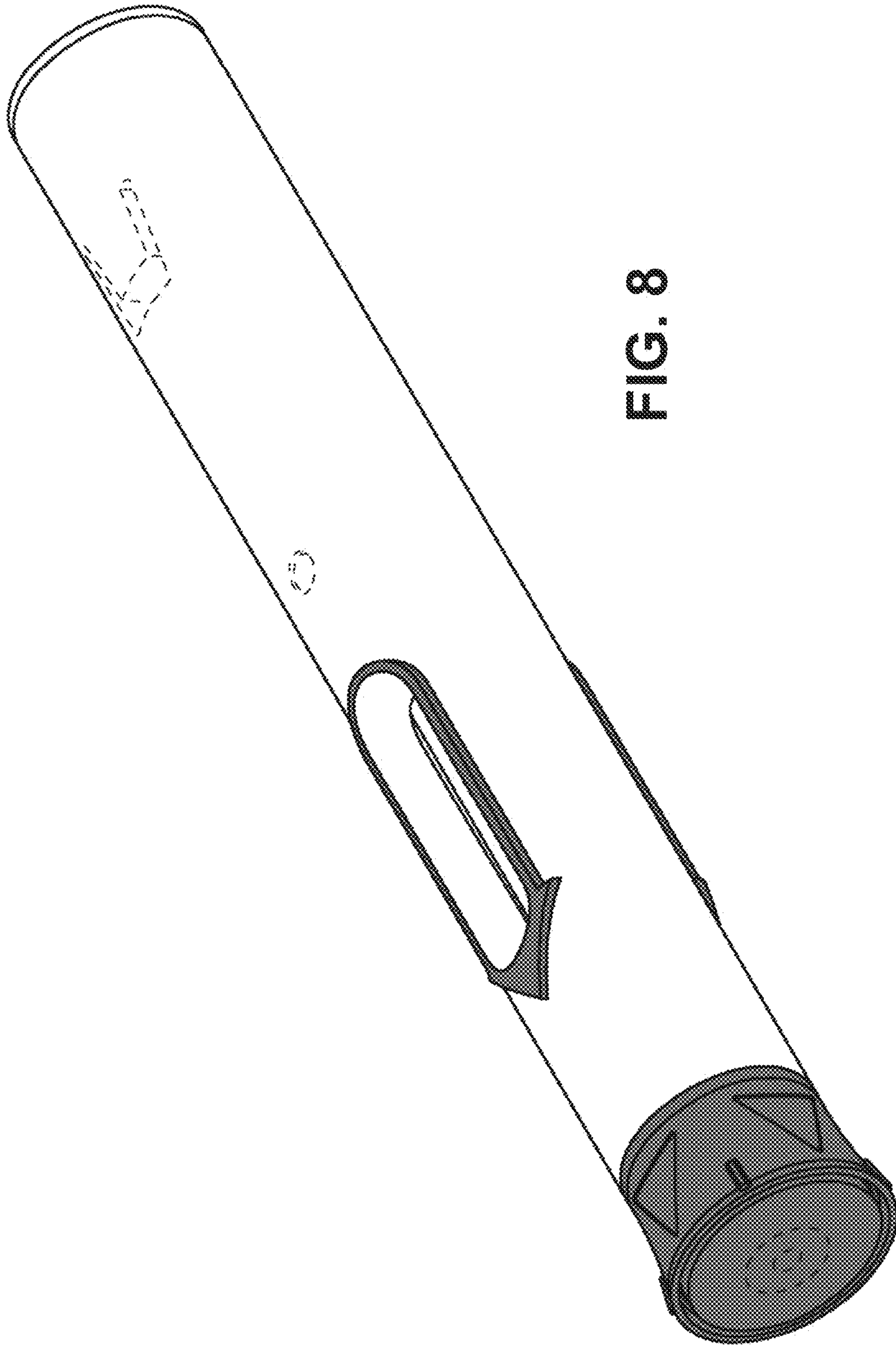


FIG. 8

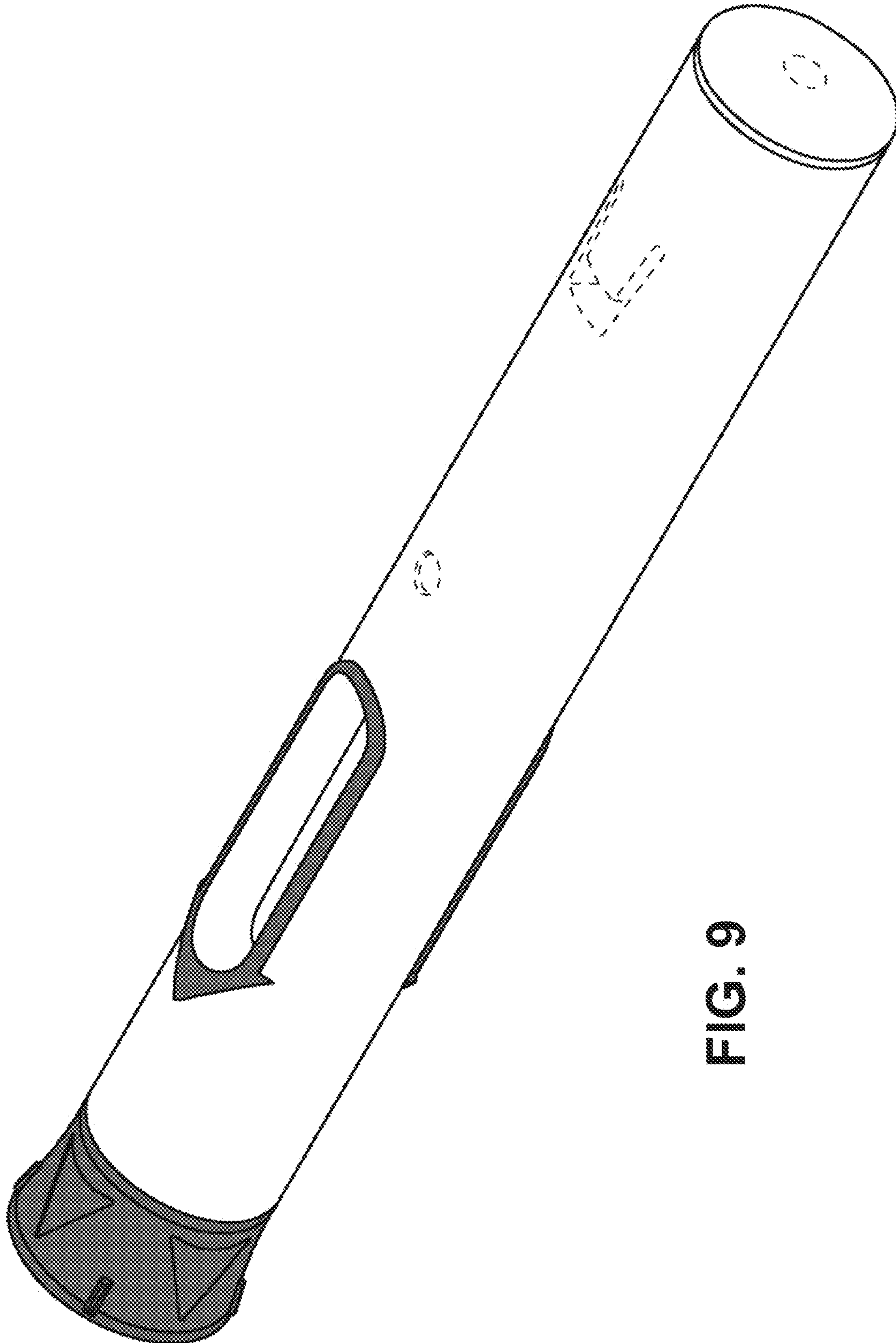


FIG. 9

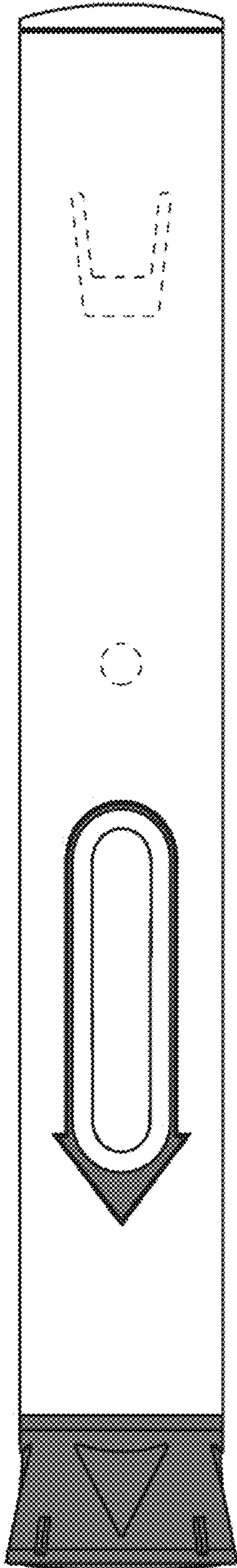


FIG. 10

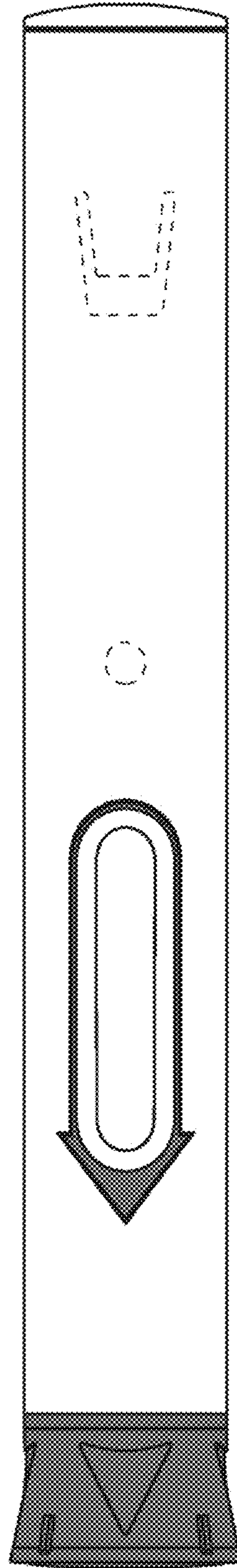


FIG. 11

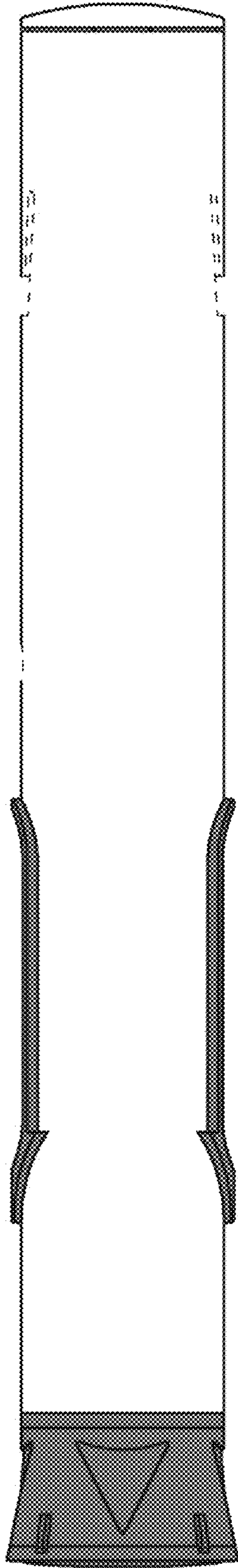


FIG. 12

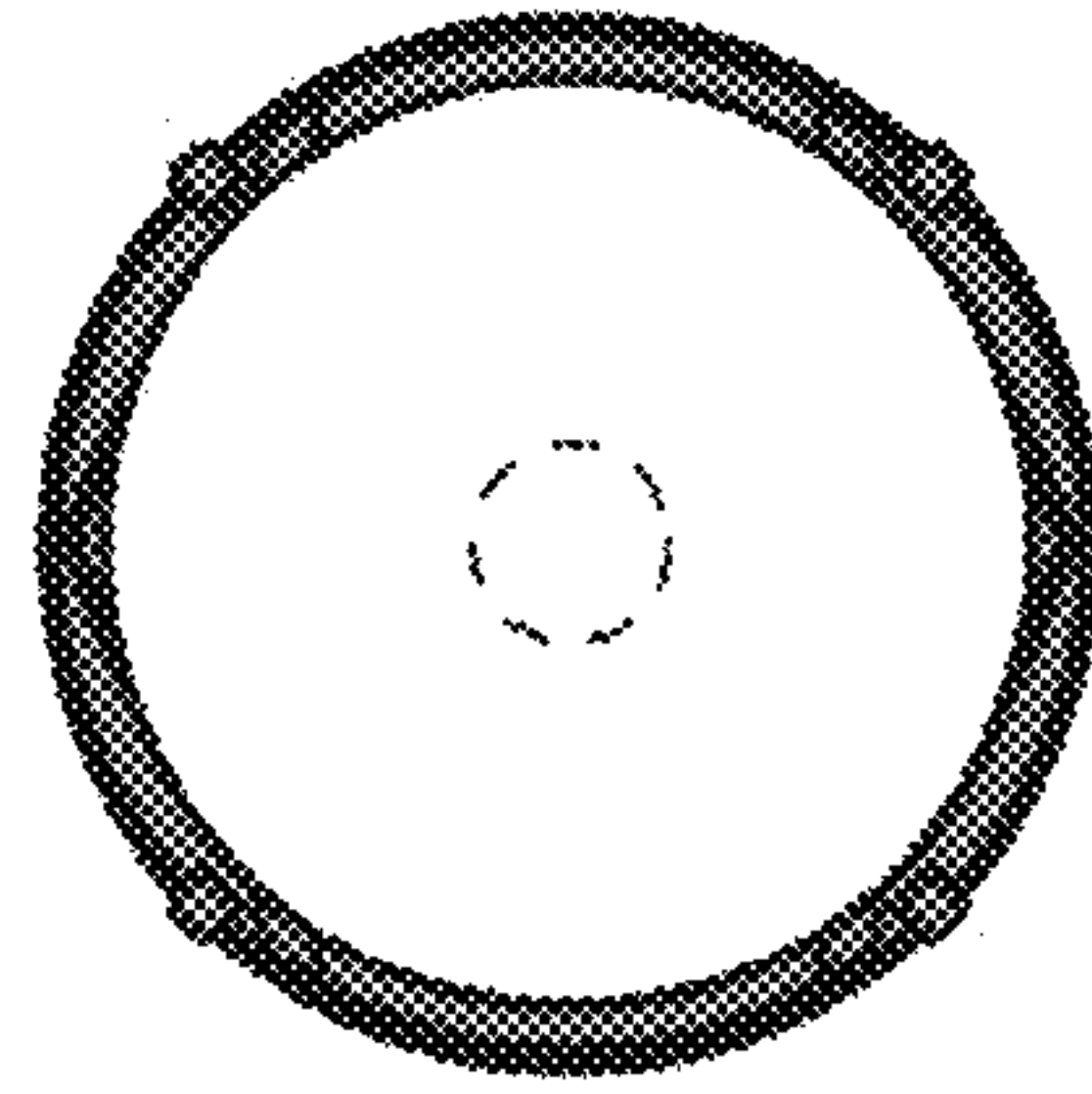


FIG. 14

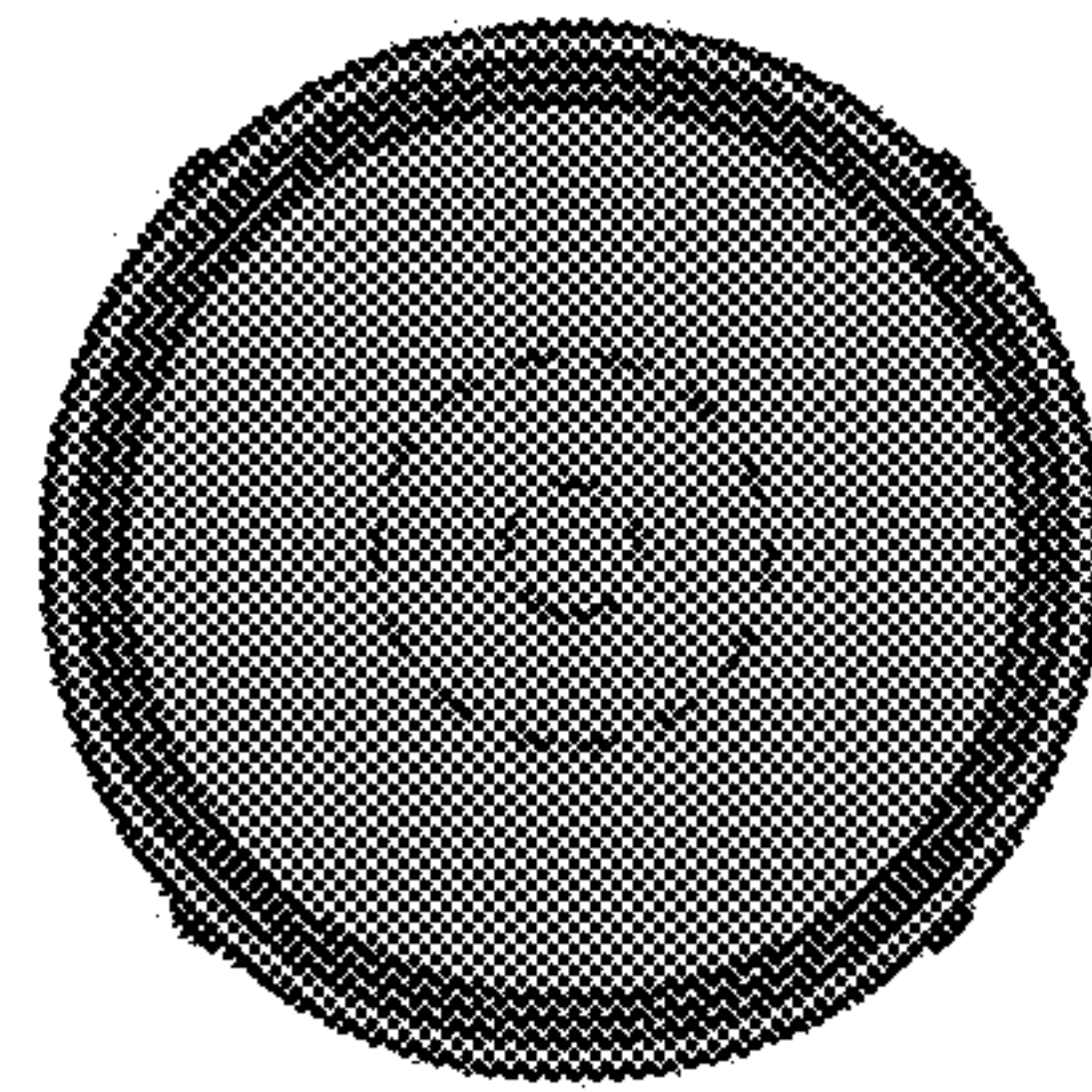
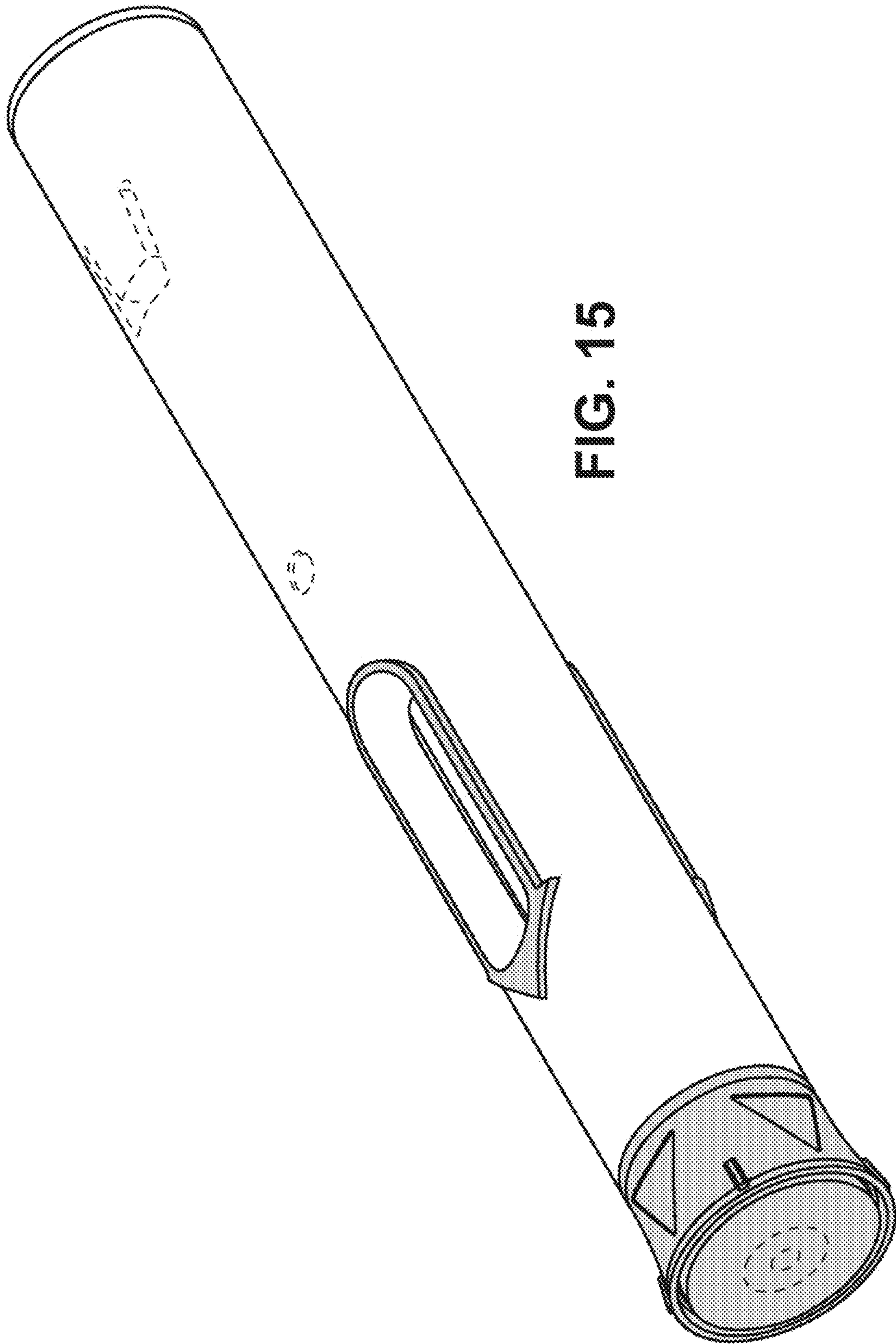


FIG. 13



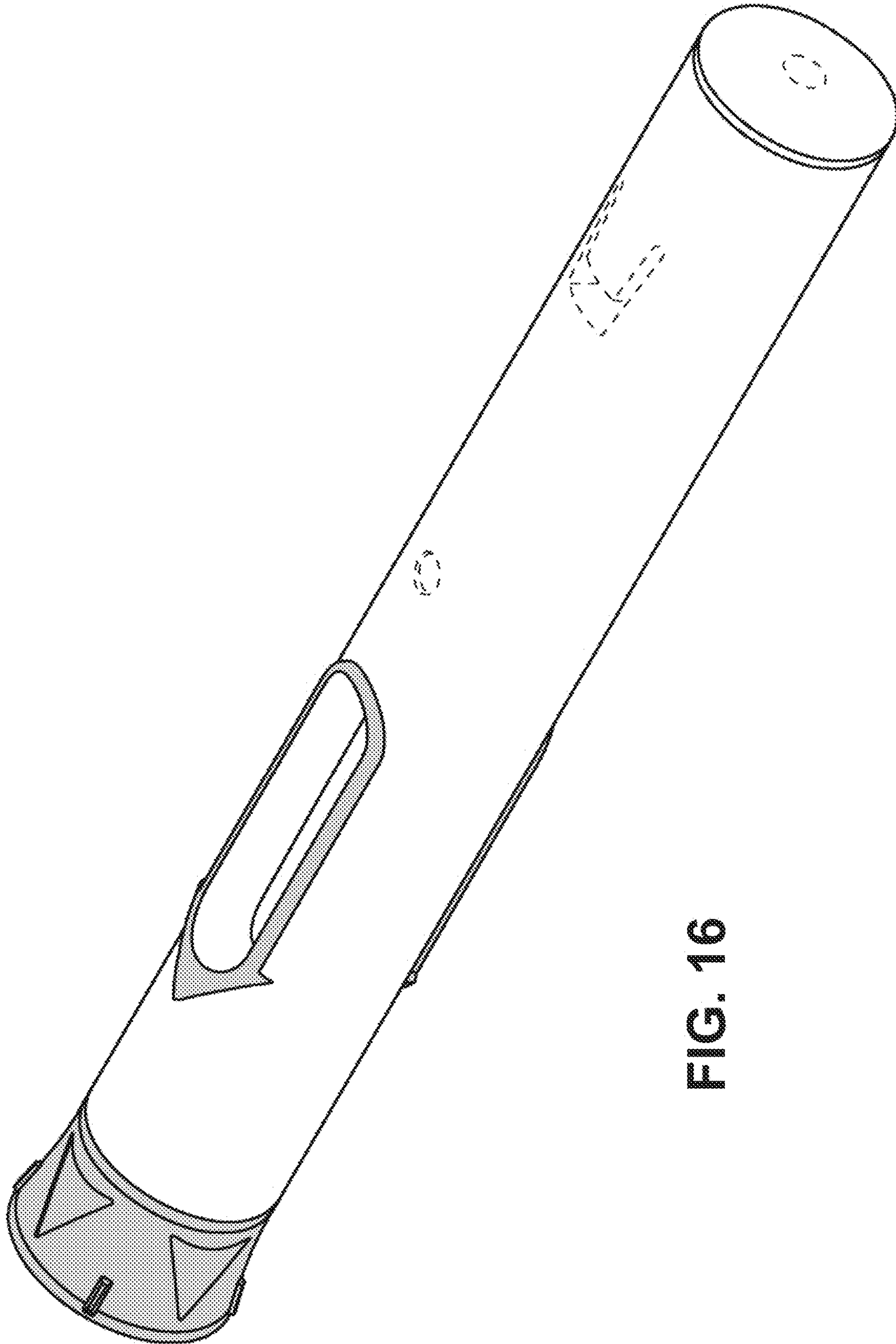


FIG. 16

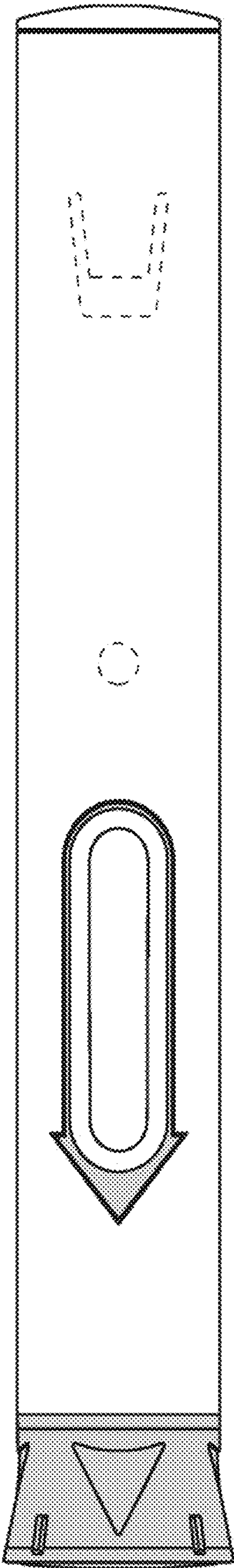


FIG. 17

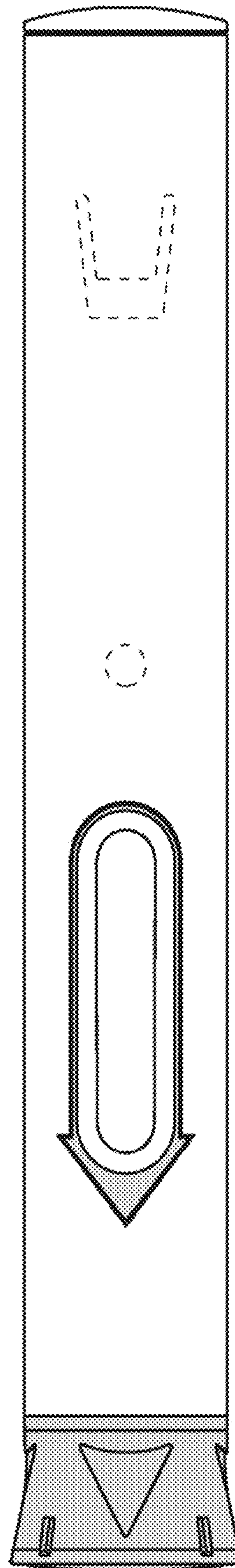


FIG. 18

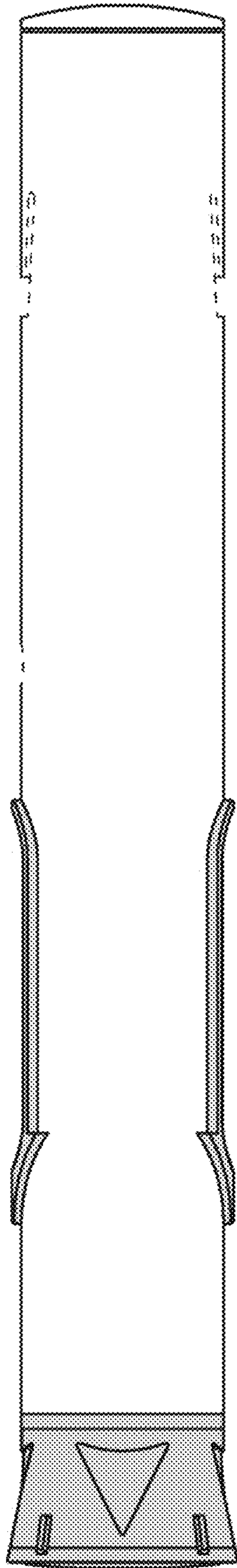


FIG. 19

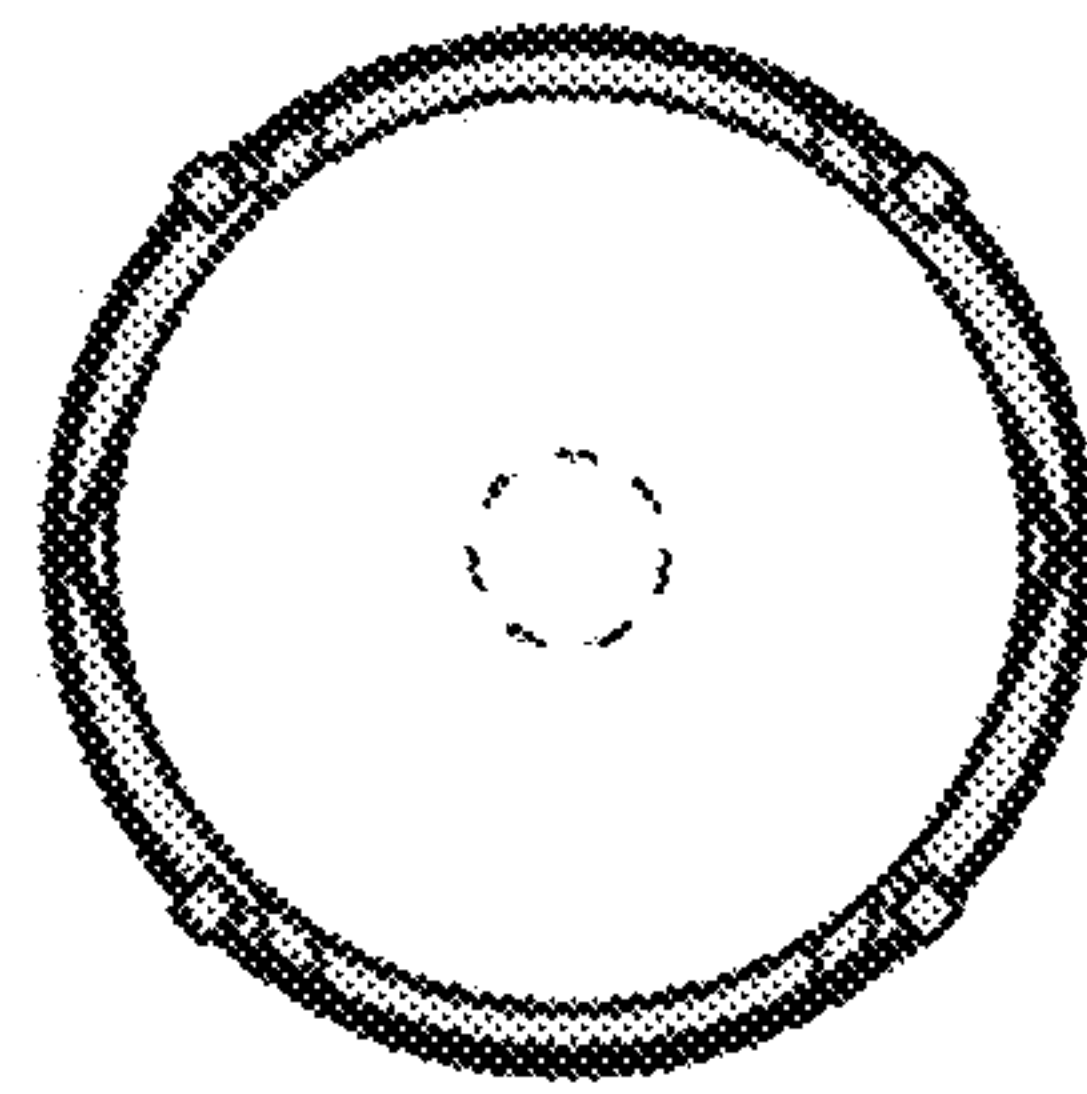


FIG. 21

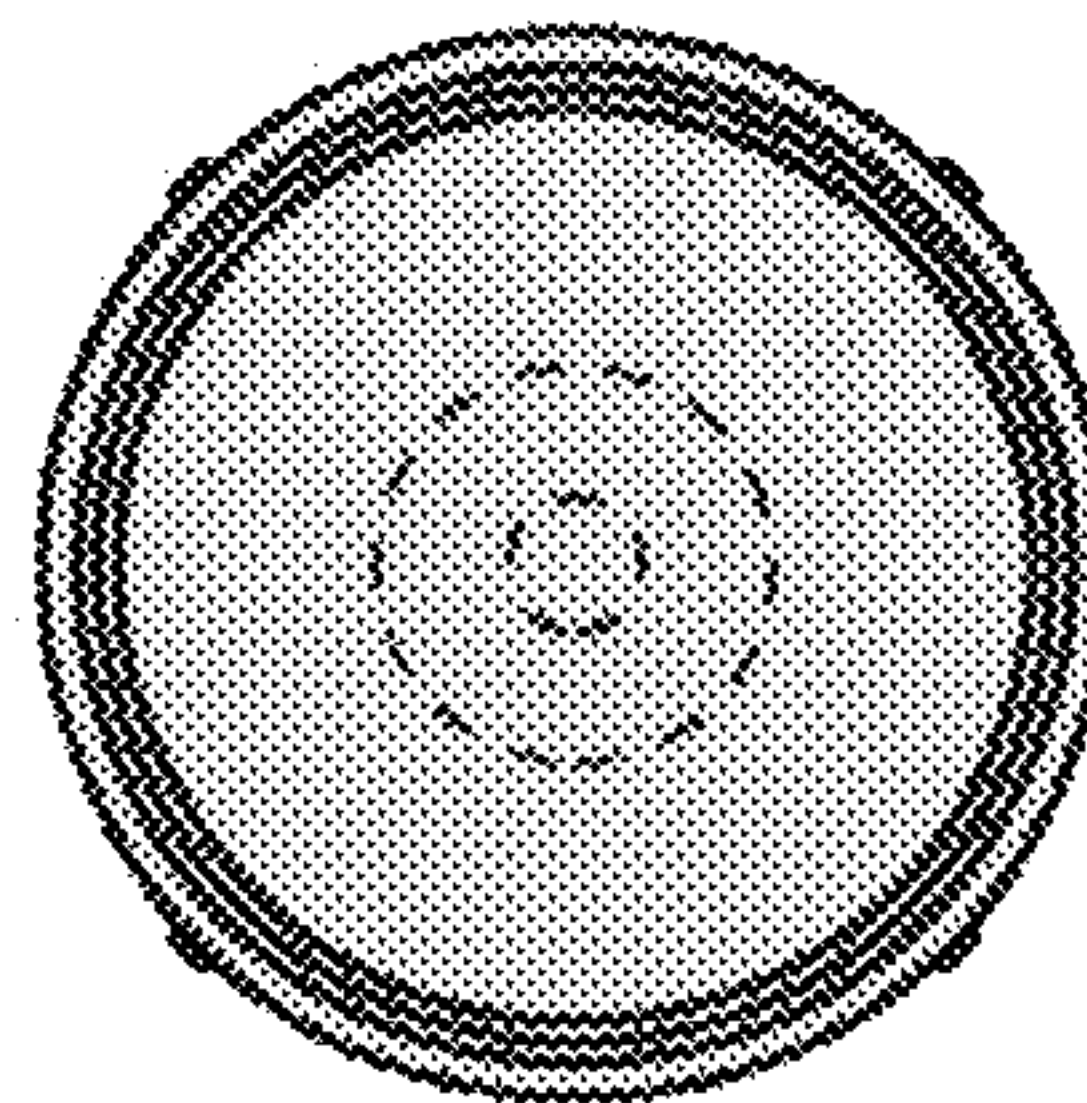


FIG. 20

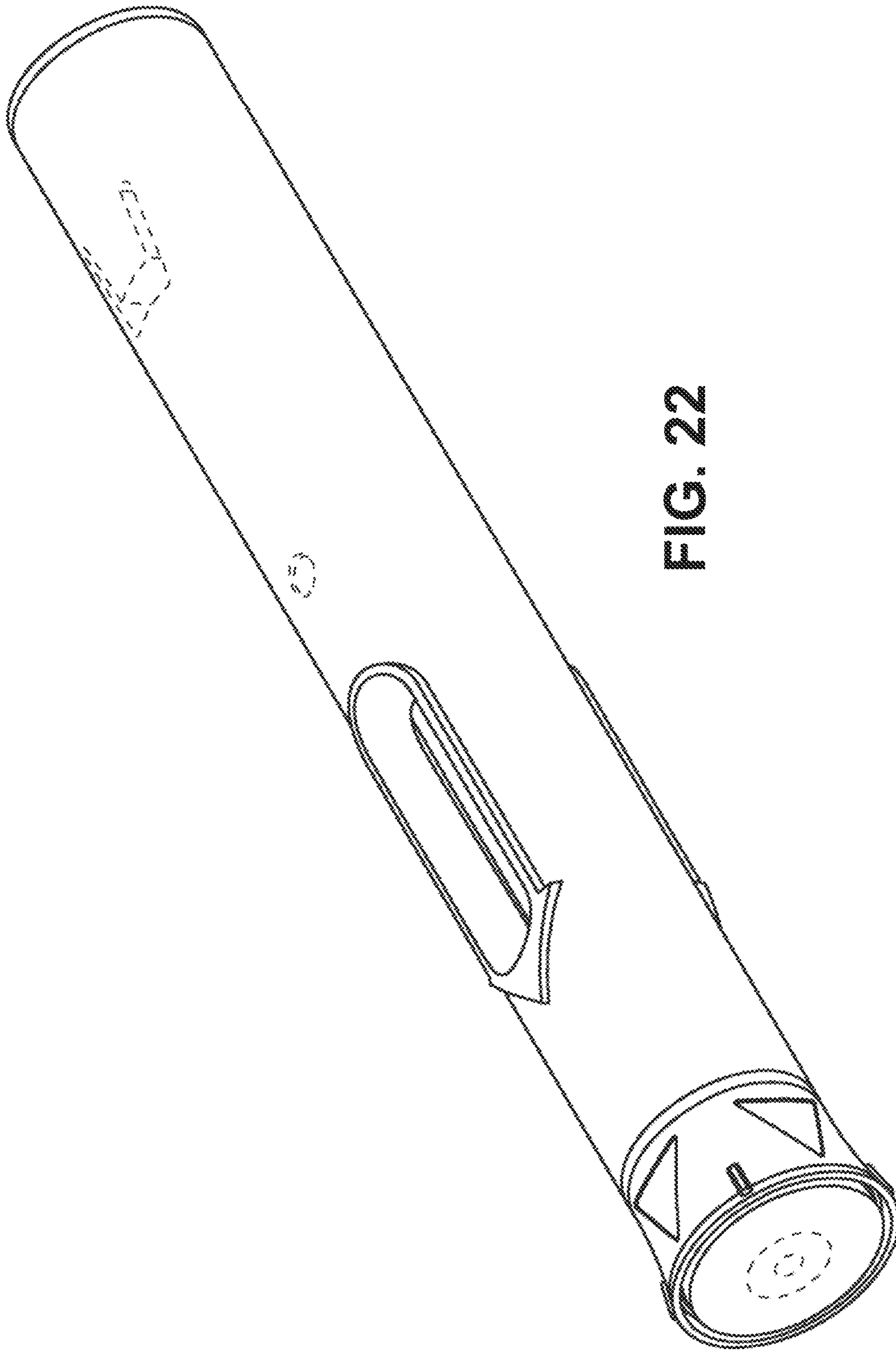


FIG. 22

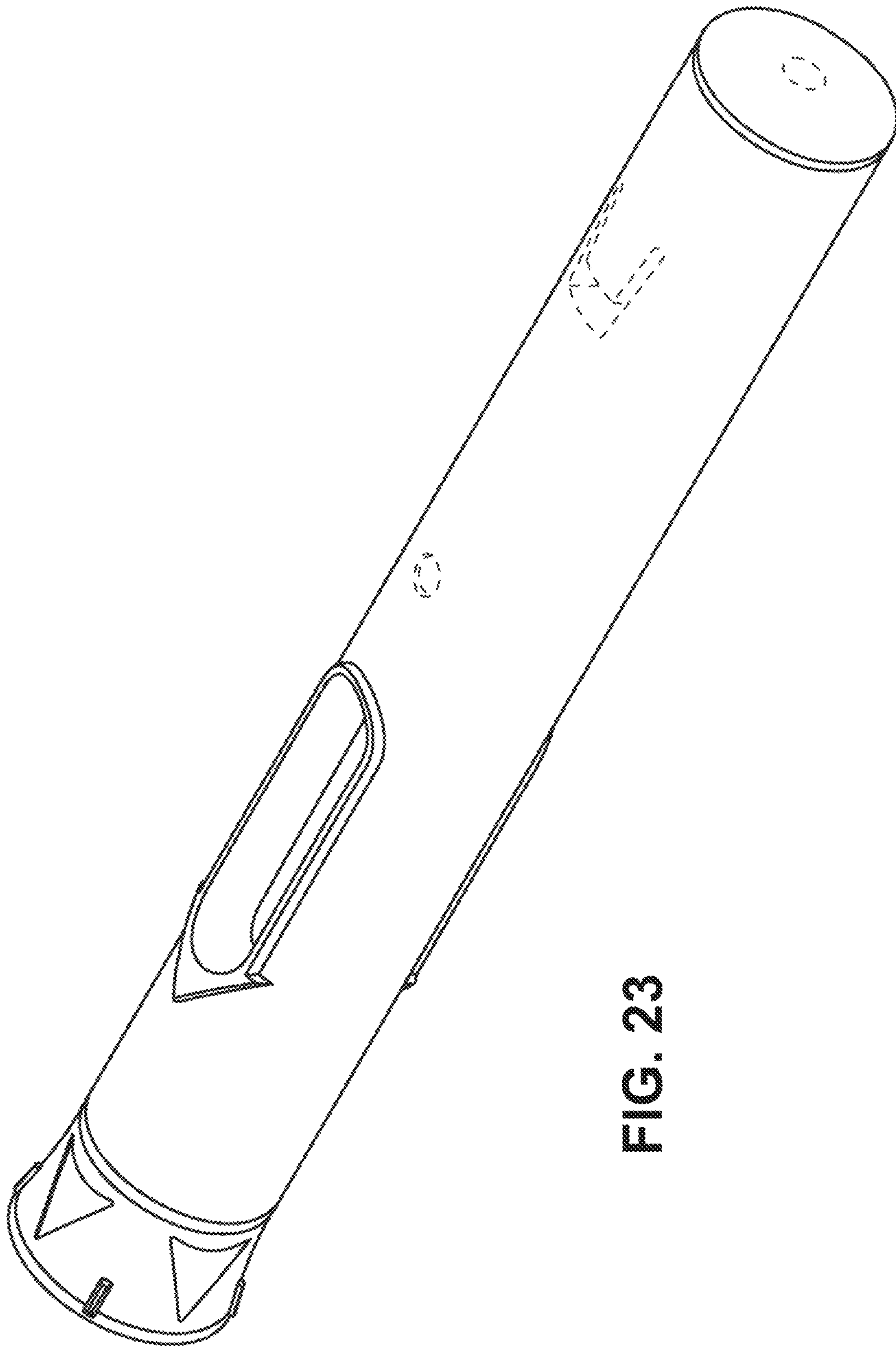


FIG. 23

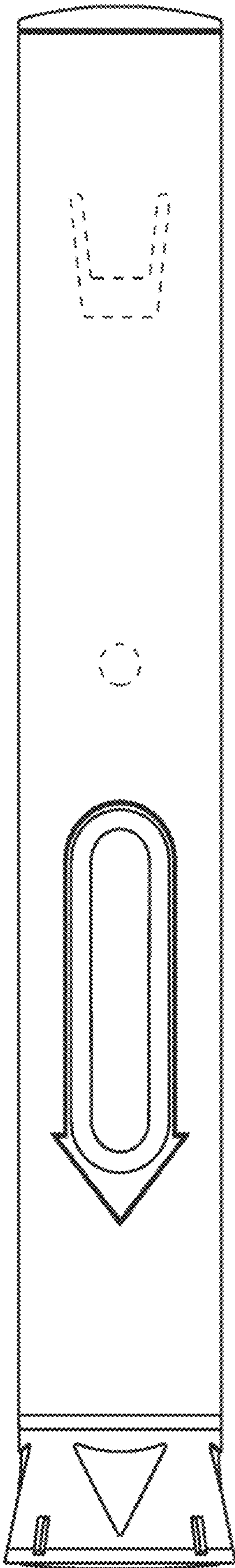


FIG. 24

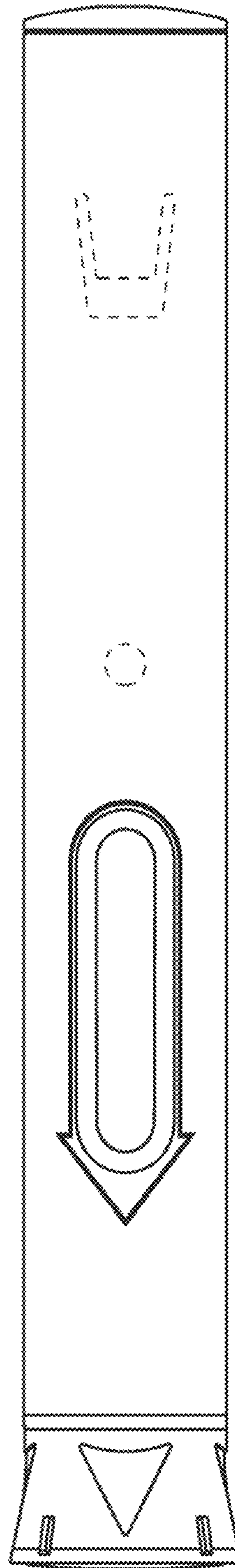


FIG. 25

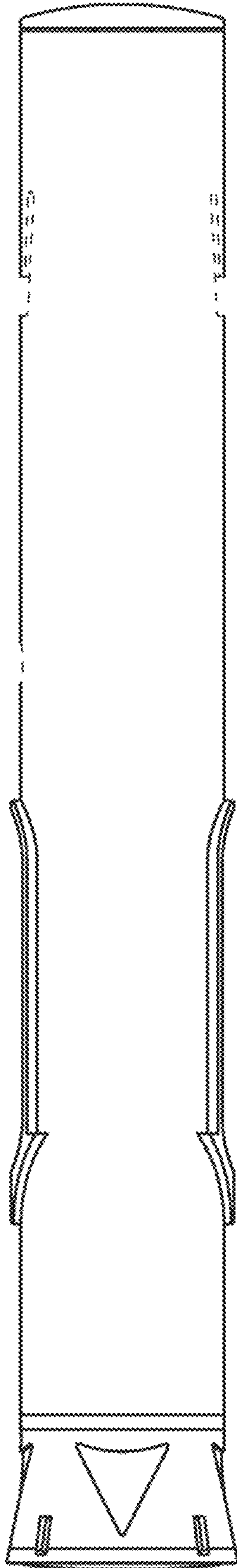


FIG. 26

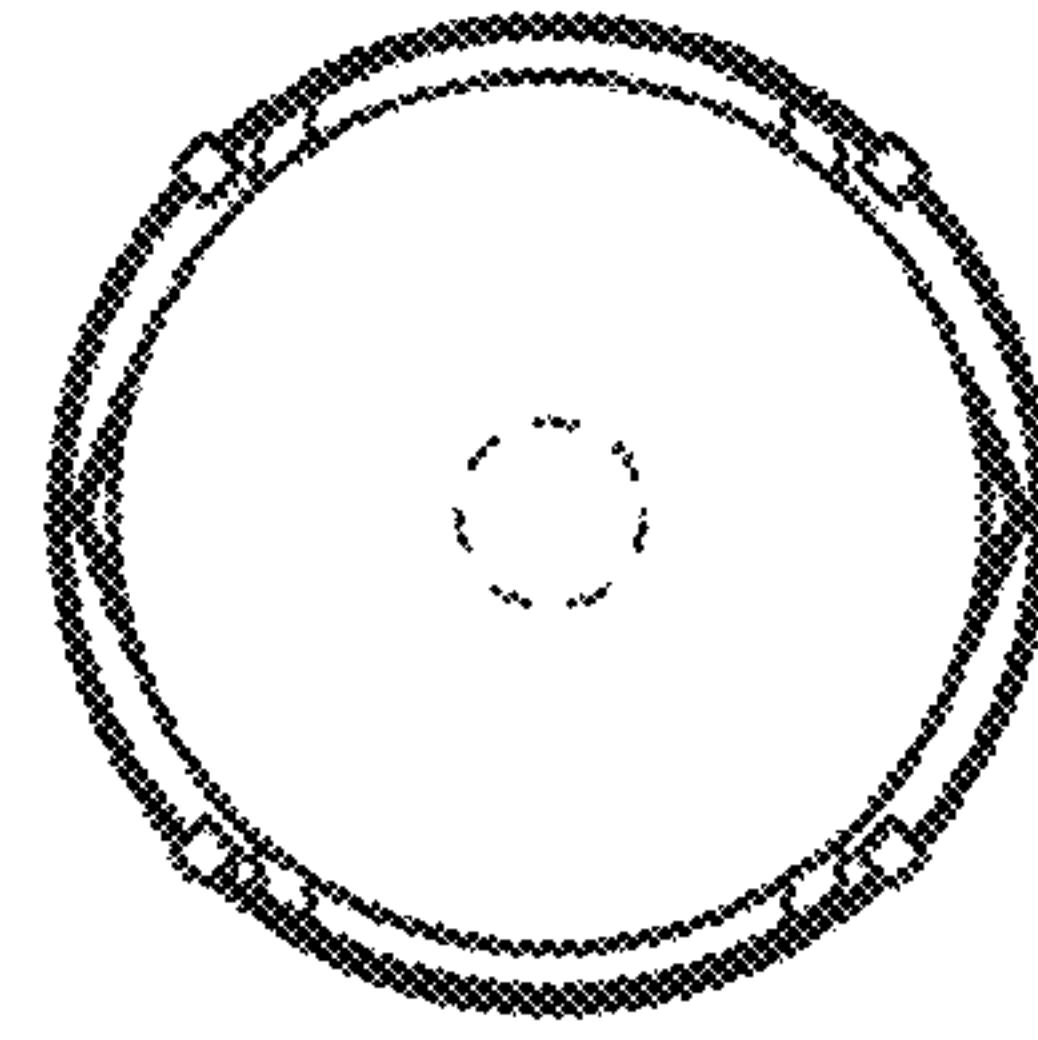


FIG. 27

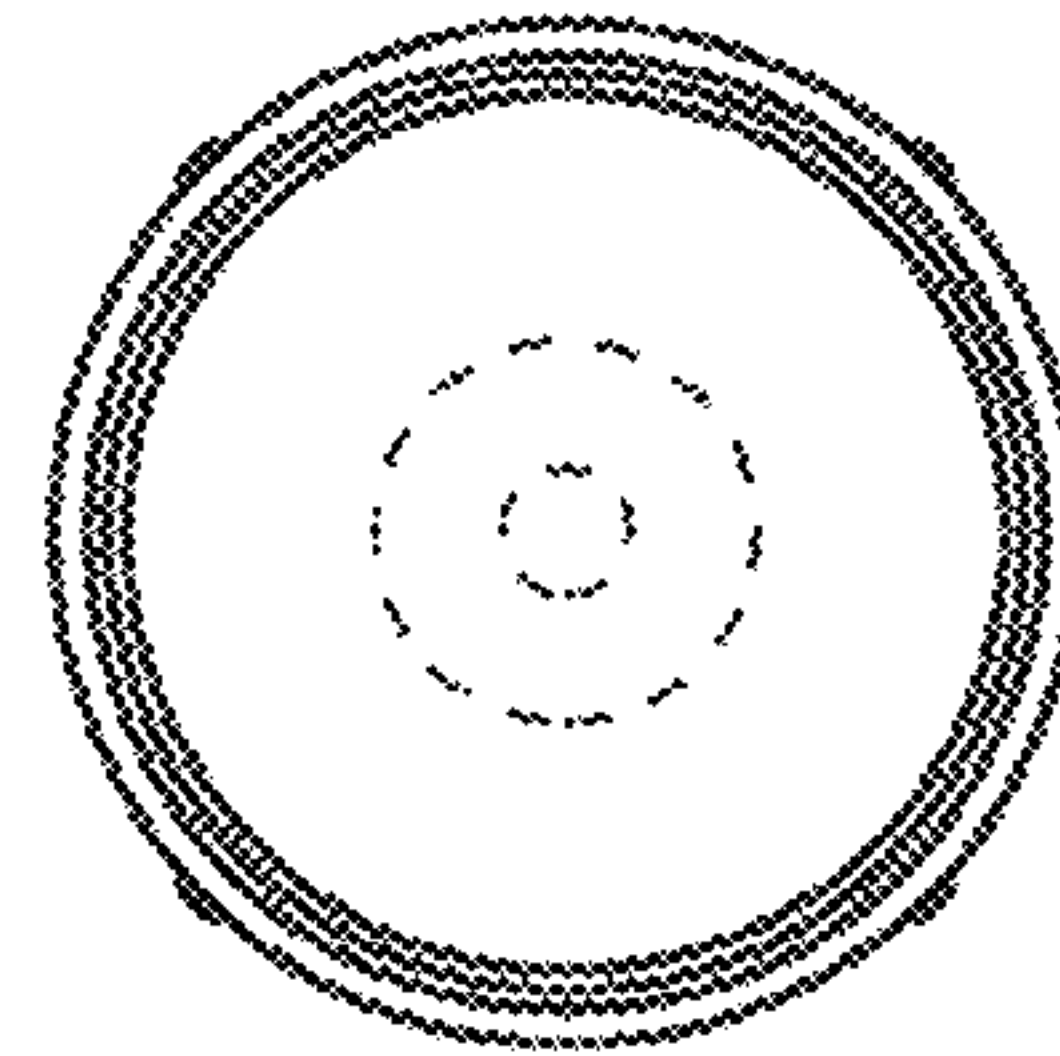


FIG. 28