



US00D848611S

(12) **United States Design Patent** (10) **Patent No.:** **US D848,611 S**
Skakoon (45) **Date of Patent:** **** May 14, 2019**

(54) **METERED DOSE TOPICAL APPLICATOR**

5,368,388 A 11/1994 Fillon
5,397,178 A 3/1995 Konietzko
5,489,280 A * 2/1996 Russell A61M 35/003
15/322

(71) Applicant: **Reflex Medical Corp.**, St. Paul, MN
(US)

(Continued)

(72) Inventor: **James G. Skakoon**, St. Paul, MN (US)

FOREIGN PATENT DOCUMENTS

(73) Assignee: **Reflex Medical Corp.**, St. Paul, MN
(US)

CN 201923348 U 8/2011
DE 19735539 A1 2/1999

(Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/634,748**

International Search Report for Application No. PCT/US2018/
012431, dated Apr. 27, 2018.

(22) Filed: **Jan. 24, 2018**

(51) **LOC (11) Cl.** **24-02**

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

USPC **D24/119**

(58) **Field of Classification Search**

USPC D24/119, 112-114, 108, 133, 130, 127,
D24/186; 606/181, 185; 604/264, 272,
604/187, 181, 184, 227; 222/389, 262

CPC A61M 35/003; A61M 5/178; A61M 3/00;
A61M 5/20; A61M 5/31; A61M 5/3146;
A61M 5/3129; A61M 5/3148; A61M
5/315; G01F 13/00; B05C 17/015

See application file for complete search history.

Primary Examiner — David G Muller

(74) *Attorney, Agent, or Firm* — Christensen, Fonder,
Dardi & Herbert PLLC

(57) **CLAIM**

The ornamental design for a metered dose topical applicator,
as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the metered dose topical applicator with a cap removed. The view from the opposite side being identical thereto. The surface and features as shown continue around the metered dose topical applicator. FIG. 2 is a perspective view of the metered dose topical applicator with the cap in place.

FIG. 3 is a side elevational view of the metered dose topical applicator with the cap in place; and, FIG. 4 is a top plan view of the metered dose topical applicator with the cap in place.

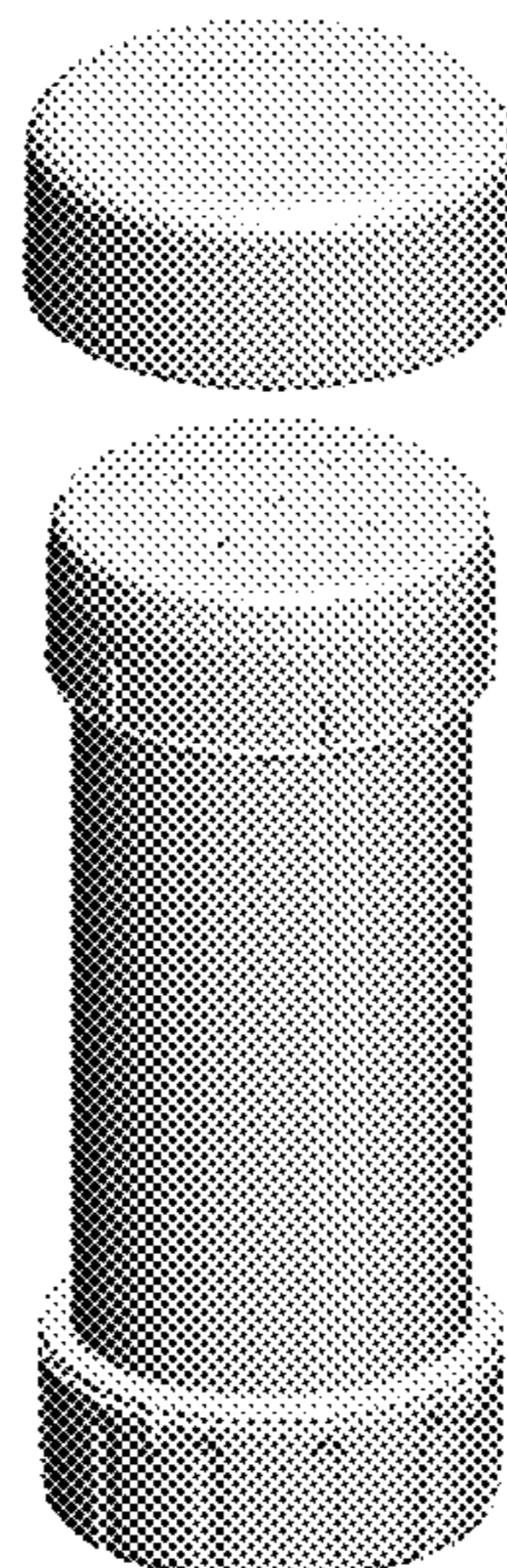
The bottom view is omitted and features thereon form no part of the claimed design. Any features on the inside of the cap are not shown and form no part of the claimed invention.

(56) **References Cited**

U.S. PATENT DOCUMENTS

282,866 A 8/1883 Earhart
1,568,178 A 1/1926 Noble
3,616,970 A 11/1971 Baumann et al.
4,139,127 A 2/1979 Gentile
4,369,158 A 1/1983 Woodruff et al.
4,435,111 A 3/1984 Mizusawa
4,595,124 A 6/1986 Duval et al.
4,600,344 A 7/1986 Sutenbach et al.
4,828,444 A 5/1989 Oshida
5,098,242 A 3/1992 Schaty
5,143,259 A * 9/1992 Williams B65D 83/75
222/389

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,518,145 A * 5/1996 Chen B05C 7/00
222/1
5,531,703 A 7/1996 Skwarek et al.
5,535,925 A * 7/1996 Hinden B05C 17/015
222/327
5,547,302 A 8/1996 Dornbusch et al.
5,720,415 A * 2/1998 Morningstar A61B 18/24
222/1
5,725,133 A 3/1998 Iaia
5,851,079 A 12/1998 Horstman et al.
5,947,621 A 9/1999 Szekely
6,129,471 A 10/2000 Lang
6,186,686 B1 2/2001 Neuner et al.
6,375,047 B1 4/2002 Herda et al.
6,551,611 B2 4/2003 Elliesen et al.
6,811,364 B2 11/2004 Kelzer
6,905,272 B2 6/2005 Yamanaka
6,945,435 B2 * 9/2005 Salamini B05B 11/0097
222/386
6,976,609 B2 12/2005 Konietzko
7,070,318 B2 7/2006 Renfro
7,086,564 B1 8/2006 Corrigan
7,213,994 B2 5/2007 Phipps et al.
7,293,936 B1 11/2007 Warren
7,296,714 B2 * 11/2007 Byerly B05C 5/0225
222/146.5
7,303,348 B2 12/2007 Phipps et al.
7,325,707 B2 2/2008 Bougamont et al.
7,334,709 B1 * 2/2008 Huang B05C 17/015
222/334
7,399,113 B2 7/2008 Konietzko
7,637,398 B2 * 12/2009 Sung B05C 17/015
222/389
7,748,892 B2 7/2010 McCoy
7,751,934 B2 7/2010 Konietzko
7,751,935 B2 7/2010 Kwak et al.

7,946,780 B2 5/2011 Zhang
7,954,601 B2 * 6/2011 Graf F16N 11/08
184/39
8,104,647 B2 * 1/2012 Bober B05B 9/0822
222/153.09
8,245,888 B2 * 8/2012 Andersen B65D 83/64
222/386
8,292,532 B2 10/2012 Nasu et al.
8,544,684 B2 10/2013 Perez
8,777,057 B2 * 7/2014 Fiedler B67D 7/0255
222/1
8,950,993 B2 2/2015 Gagne et al.
9,097,571 B2 8/2015 Phipps et al.
2004/0102741 A1 * 5/2004 Paulhus A61M 35/003
604/290
2008/0101850 A1 5/2008 Wojcik et al.
2012/0205393 A1 8/2012 Perez
2012/0269029 A1 10/2012 Konietzko et al.
2014/0031323 A1 1/2014 Perez
2014/0166776 A1 * 6/2014 Fang B05B 17/0638
239/102.2
2014/0221943 A1 * 8/2014 Carrara A61K 9/0014
604/310
2014/0221945 A1 8/2014 Dos Santos et al.
2015/0201735 A1 7/2015 Swaile et al.
2015/0366321 A1 * 12/2015 Anderson A45D 40/00
401/68
2016/0129228 A1 5/2016 Perez
2017/0050157 A1 2/2017 Konietzko

FOREIGN PATENT DOCUMENTS

DE 29724902 U1 9/2005
DE 19735539 B4 1/2010
DE 102010044227 A1 3/2012
DE 102012110986 A1 5/2013
EP 0312165 A2 4/1989
WO WO 2014/121259 8/2014

* cited by examiner

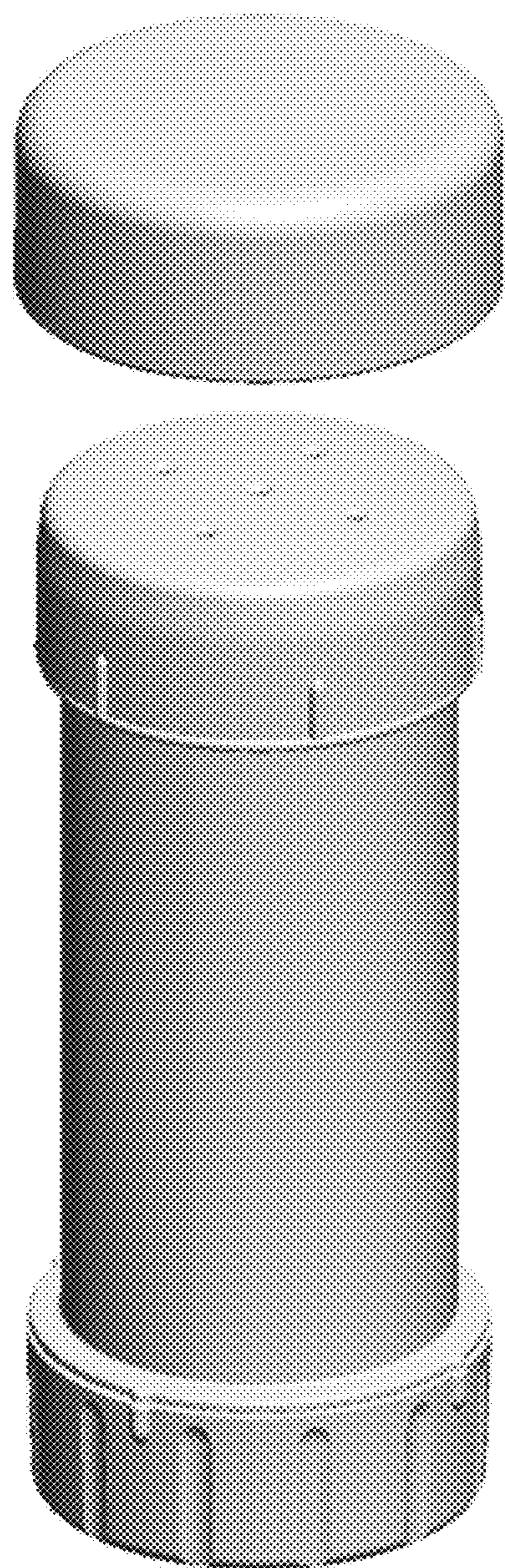


FIG. 1

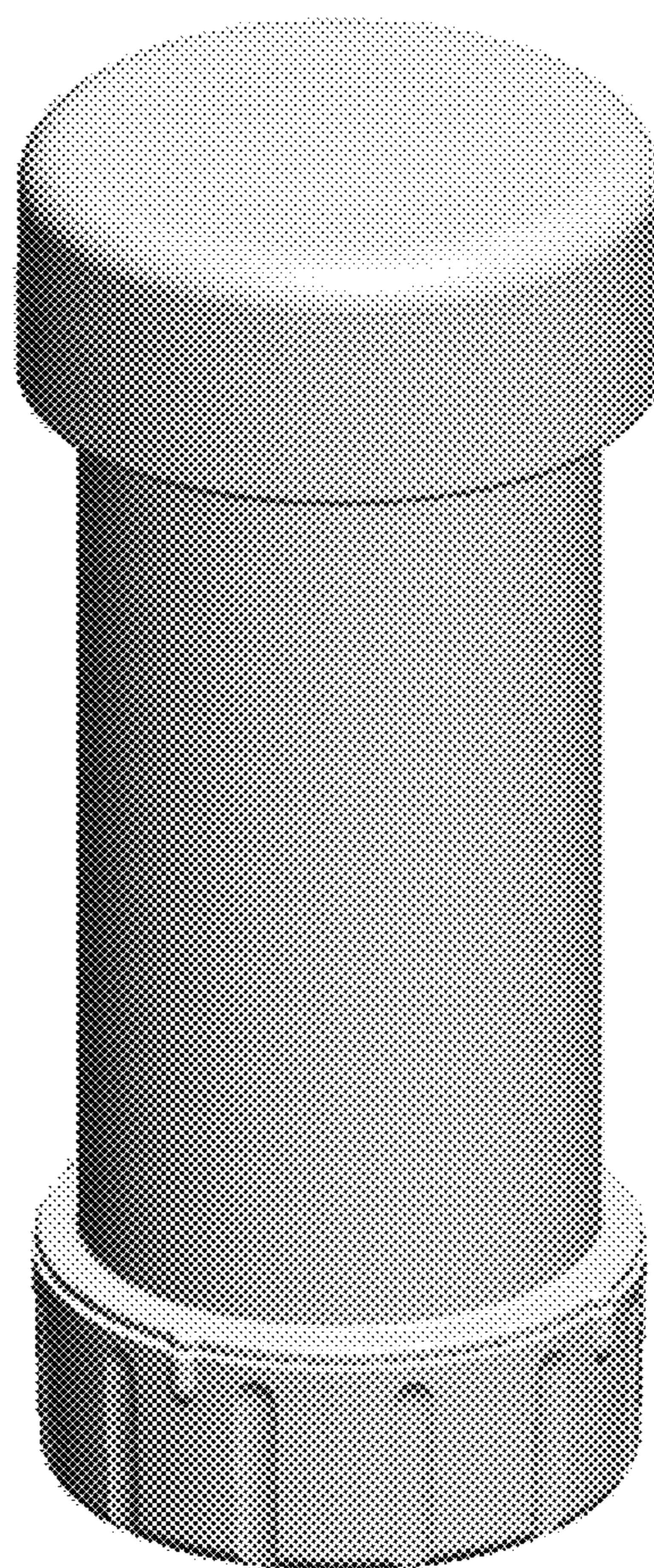


FIG. 2

FIG. 3

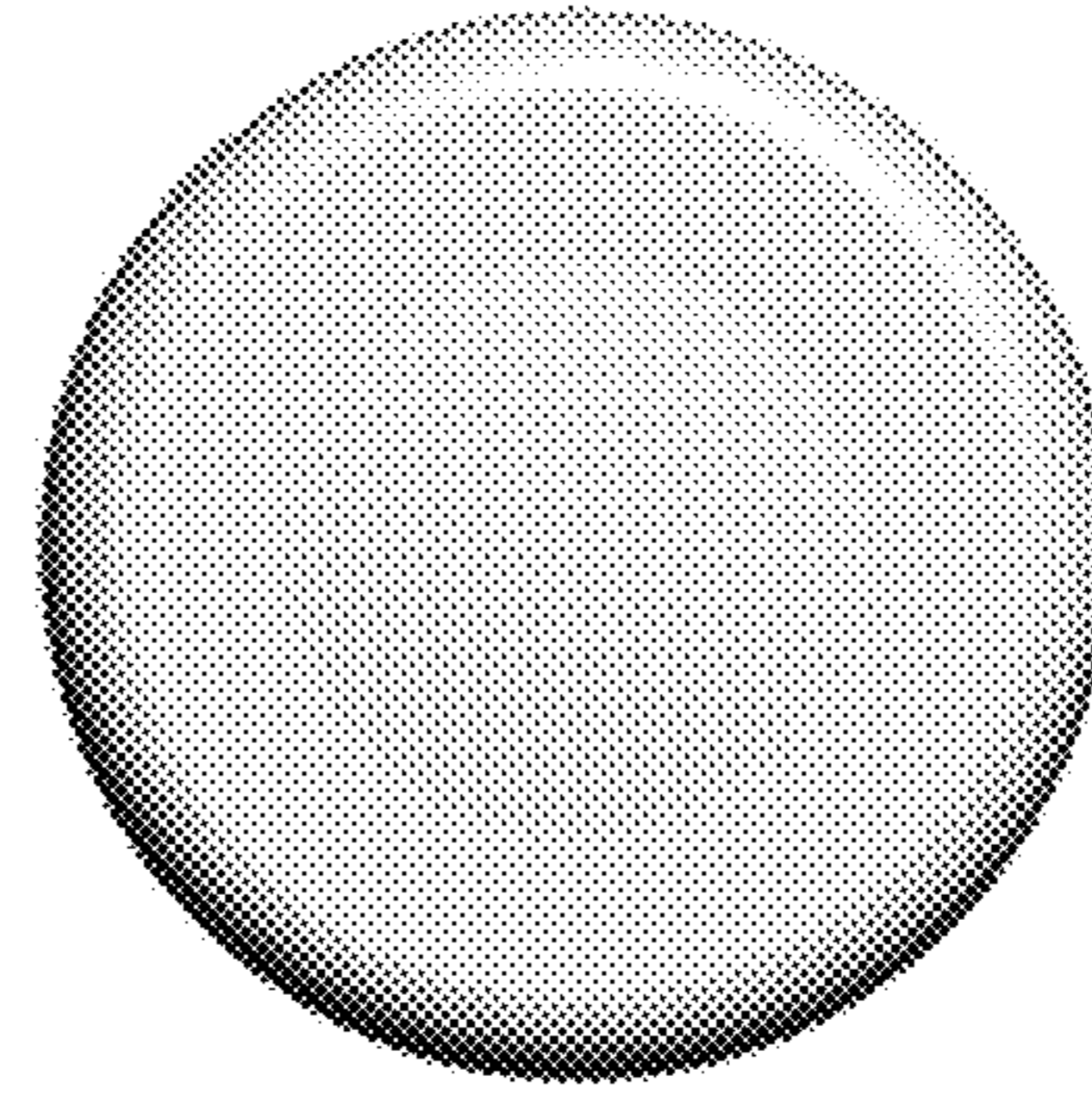
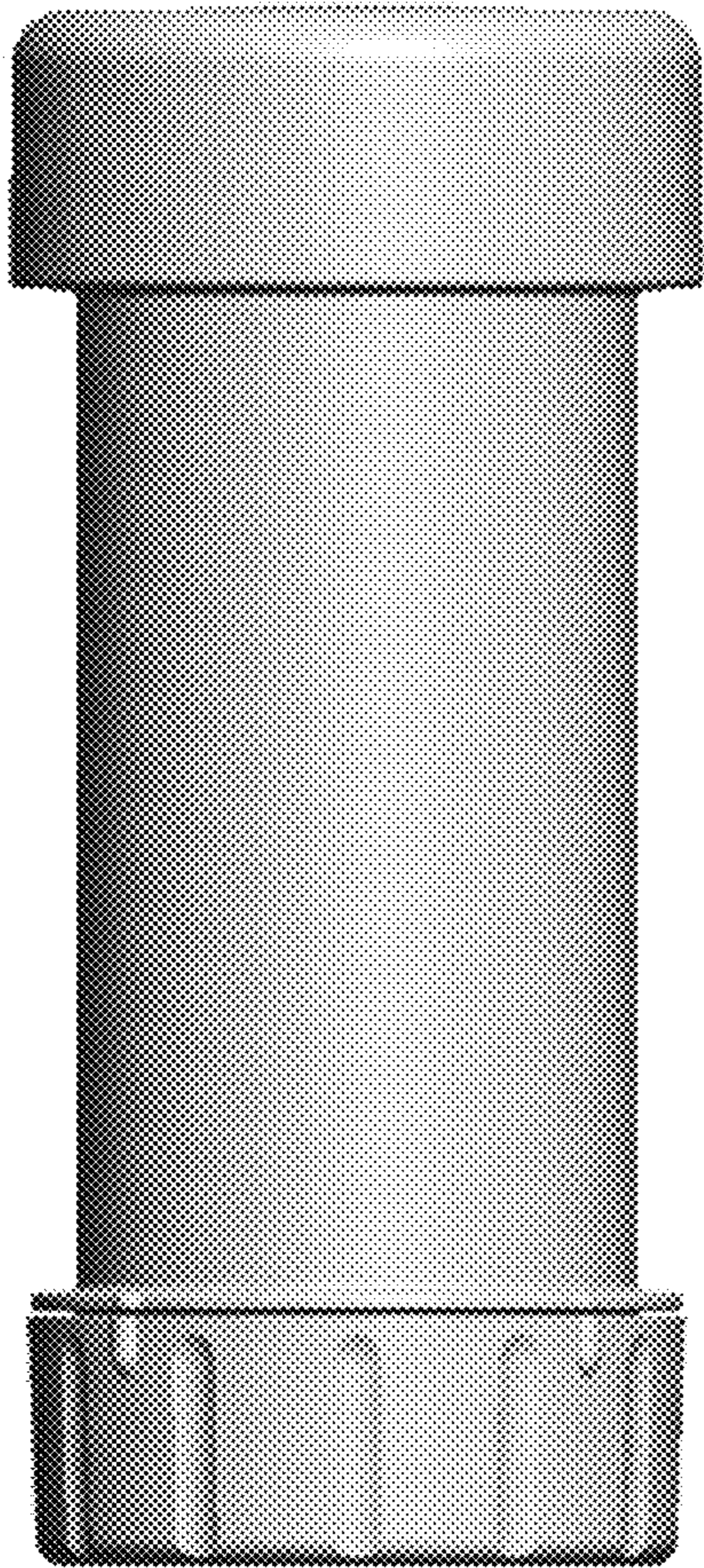


FIG. 4