



US00D838863S

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

(10) **Patent No.:** **US D838,863 S**  
(45) **Date of Patent:** **\*\* Jan. 22, 2019**

(54) **LIQUID MIXING CONTAINER**

(71) Applicants: **NISSAN CHEMICAL INDUSTRIES, LTD.**, Tokyo (JP); **SUMITOMO BAKELITE CO., LTD.**, Tokyo (JP)

(72) Inventors: **Hisato Hayashi**, Chiba (JP); **Haruo Okubo**, Tokyo (JP)

(73) Assignee: **NISSAN CHEMICAL INDUSTRIES, LTD.**, Tokyo (JP)

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

(21) Appl. No.: **29/541,477**

(22) Filed: **Oct. 5, 2015**

(30) **Foreign Application Priority Data**

Apr. 7, 2015 (JP) ..... 2015-007920

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

(52) **U.S. Cl.**  
USPC ..... **D24/224**

(58) **Field of Classification Search**

USPC ..... D24/118, 121, 129, 130, 164, 224

CPC ..... A61B 10/0045; A61B 10/0051; A61B

10/007; A61B 10/0096; A61B 10/02;

A61B 5/15003; A61B 5/150221; A61B

5/150259; A61C 17/046; A61J 1/00; A61J

1/05; A61J 1/06; A61J 1/1406; A61J

1/1425; A61J 1/1443; A61J 1/18; A61J

1/20; A61J 1/201; A61J 1/2055; A61J

1/2062; A61J 1/2082; A61J 1/2089; A61J

1/2096; A61M 1/0001; A61M 1/0005;

A61M 1/0049; A61M 1/005; A61M

1/0056; A61M 1/062; A61M 1/0007;

A61M 5/282; B01D 15/00; B01D 15/08;

B01D 15/22; B01D 15/424; B01D

15/426; B01J 20/046; B01J 20/26; B01J

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D282,283 S \* 1/1986 Weigl ..... D24/129

D306,649 S \* 3/1990 Lapicola ..... D24/224

(Continued)

FOREIGN PATENT DOCUMENTS

JP S55-125537 U 2/1979

JP S63-20048 U 2/1988

(Continued)

*Primary Examiner* — Ian Simmons

*Assistant Examiner* — Samantha Q. Lawrence

(74) *Attorney, Agent, or Firm* — Leydig, Voit & Mayer, Ltd.

(57) **CLAIM**

The ornamental design for a liquid mixing container, as shown and described.

**DESCRIPTION**

FIG. 1 is a front view of a liquid mixing container of the present invention, wherein the rear view is a mirror image of the front view.

FIG. 2 is a right side view thereof, wherein the left side view is an identical view.

FIG. 3 is a top view thereof.

FIG. 4 is a bottom view thereof.

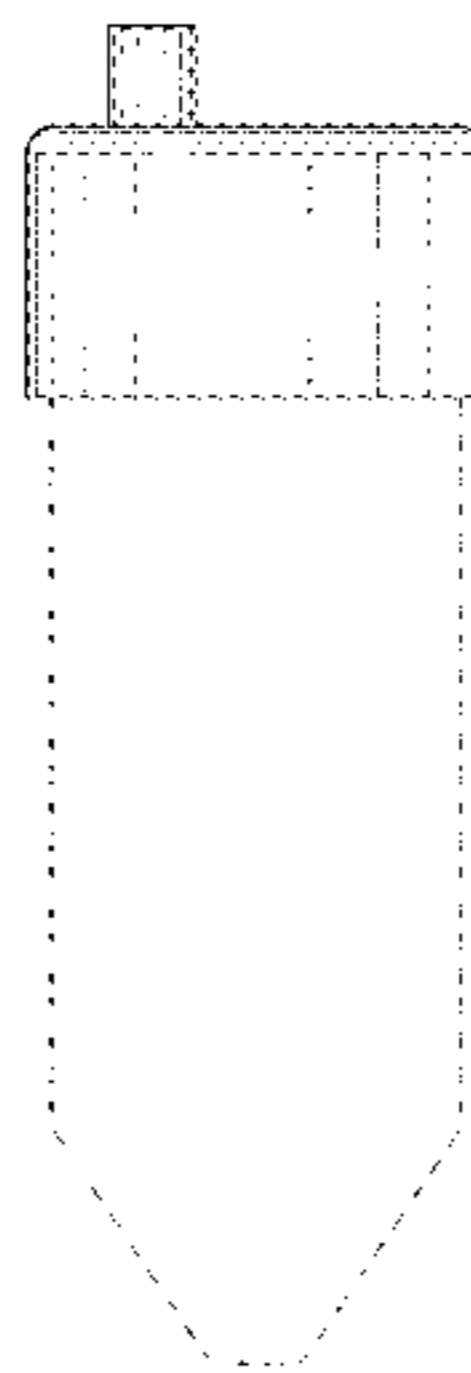
FIG. 5 is a cross-sectional view of the liquid mixing container taken along line 5-5 as shown in FIG. 3.

FIG. 6 is an enlarged partial cross-sectional view of the liquid mixing container taken along line 6 as shown in FIG. 5; and,

FIG. 7 is a cross-sectional view of the liquid mixing container shown with a syringe and liquid as environment.

The features shown in dash/dash broken lines depict portions of the liquid mixing container and environmental that form no part of the claimed design. The unclaimed dash/dot broken lines are used to illustrate cross-sectional lines and areas of enlargement.

**1 Claim, 7 Drawing Sheets**



(58) **Field of Classification Search**

CPC ..... 20/28014; B01J 20/286; B01J 20/3242;  
 B01L 3/0275; B01L 3/502; B01L 3/5021;  
 B01L 3/50255; B01L 3/502715; B01L  
 3/5029; B01L 3/508; B01L 3/50825;  
 B01L 3/50853; B01L 3/5457; B01L  
 3/5082-3/569; B65D 47/00-47/44; B65D  
 47/06; B65D 47/0885; B65D 47/141;  
 B65D 47/147; B65D 47/148; B65D  
 47/18; B65D 47/2031; G01N 1/34; G01N  
 1/405; G01N 1/4077; G01N 30/00; G01N  
 30/006; G01N 30/08; G01N 30/12; G01N  
 30/16; G01N 30/24; G01N 30/6026;  
 G01N 30/6052; G01N 30/6091

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,944,736 A \* 7/1990 Holtz ..... A61J 1/2096  
 215/200  
 4,957,492 A \* 9/1990 McVay ..... A61M 1/0056  
 600/573  
 D323,116 S \* 1/1992 Dart ..... D9/435  
 D374,481 S \* 10/1996 McCallister ..... D24/118  
 5,573,525 A \* 11/1996 Watson ..... A61J 1/2096  
 215/306  
 5,624,418 A \* 4/1997 Shepard ..... A61M 1/0056  
 210/232  
 D392,046 S \* 3/1998 Niedospial, Jr. .... D24/224  
 5,776,124 A \* 7/1998 Wald ..... A61J 1/2096  
 604/403  
 5,797,742 A \* 8/1998 Fraker ..... A61C 17/046  
 209/173  
 5,893,397 A \* 4/1999 Peterson ..... A61J 1/2096  
 141/27

6,426,049 B1 7/2002 Rosen et al.  
 D526,413 S \* 8/2006 Baker ..... D24/164  
 D573,017 S \* 7/2008 Henderson ..... D9/454  
 D596,487 S \* 7/2009 Batton ..... D9/447  
 7,694,828 B2 \* 4/2010 Swift ..... B01J 20/046  
 210/173  
 D630,094 S \* 1/2011 Maxwell ..... D9/447  
 D640,135 S \* 6/2011 Grace ..... B65D 47/06  
 D9/447  
 8,465,439 B2 \* 6/2013 Parks ..... A61M 1/0001  
 600/562  
 D705,059 S \* 5/2014 Hutchison ..... D9/447  
 D706,135 S \* 6/2014 Hutchison ..... D9/447  
 D708,946 S \* 7/2014 Hutchison ..... D9/447  
 D744,857 S \* 12/2015 Gieske ..... D9/435  
 D748,776 S \* 2/2016 Brannon ..... D24/121  
 D781,101 S \* 3/2017 Barber ..... D9/435  
 D783,176 S \* 4/2017 Gavlak ..... D24/121  
 D789,199 S \* 6/2017 Kerill ..... D9/447  
 D790,341 S \* 6/2017 Ross ..... D9/447  
 2004/0087918 A1 \* 5/2004 Johnson, III ..... A61M 1/0005  
 604/319  
 2007/0203451 A1 \* 8/2007 Murakami ..... A61M 5/282  
 604/82  
 2015/0359949 A1 \* 12/2015 Yeager ..... A61M 1/0056  
 435/283.1  
 2016/0097049 A1 \* 4/2016 Qian ..... B01L 3/502  
 435/6.12  
 2016/0159635 A1 \* 6/2016 Davis ..... B67D 3/0041  
 141/366  
 2016/0338911 A1 \* 11/2016 Fangrow ..... A61J 1/2096  
 2017/0312175 A1 \* 11/2017 Lev ..... A61J 1/20

FOREIGN PATENT DOCUMENTS

JP D1034123 S 3/1999  
 JP 2011-203258 10/2011

\* cited by examiner

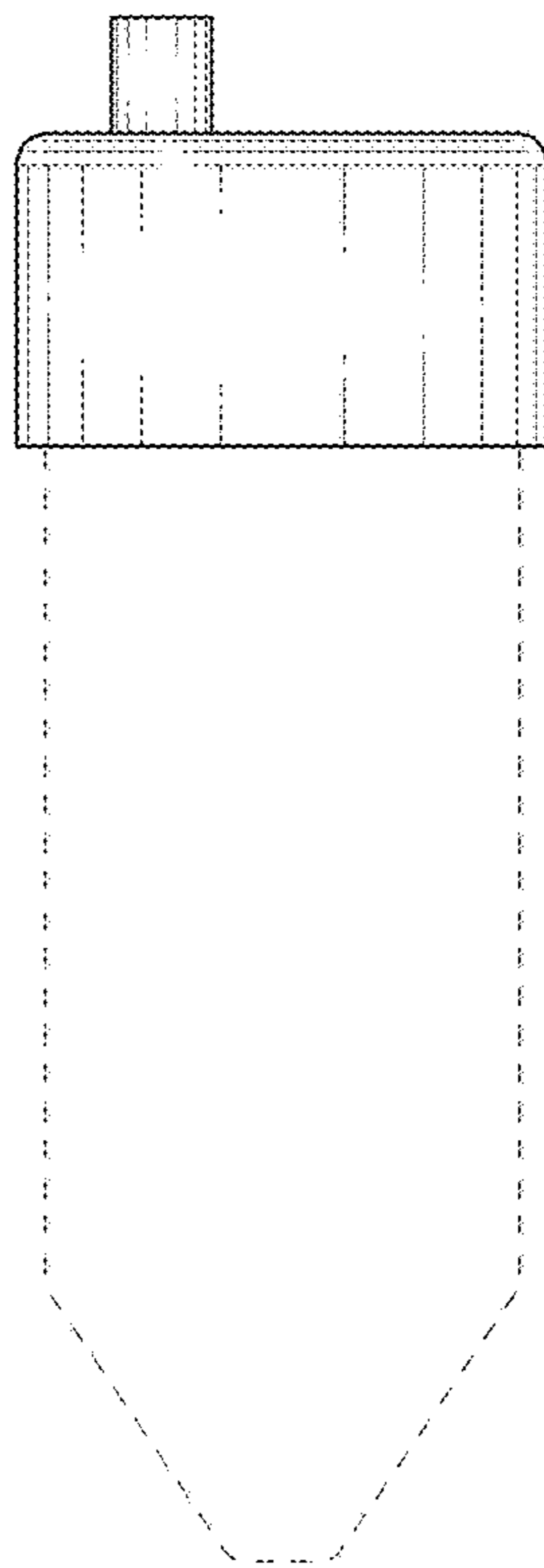


FIG. 1

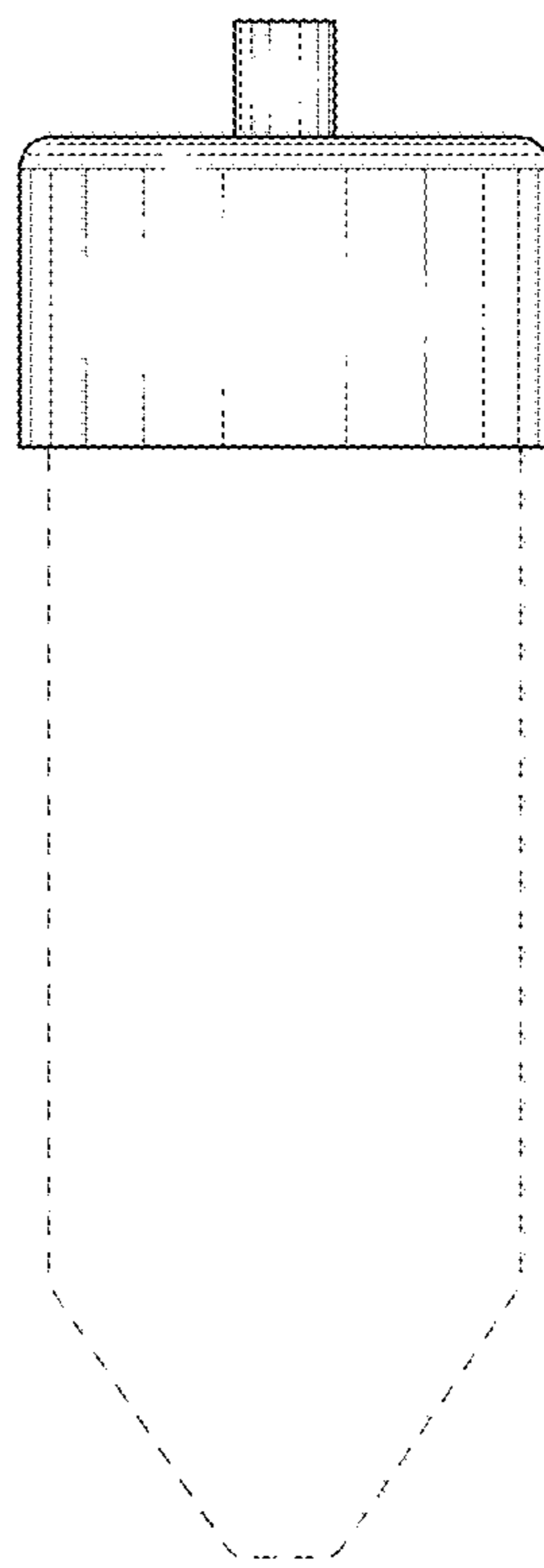


FIG. 2

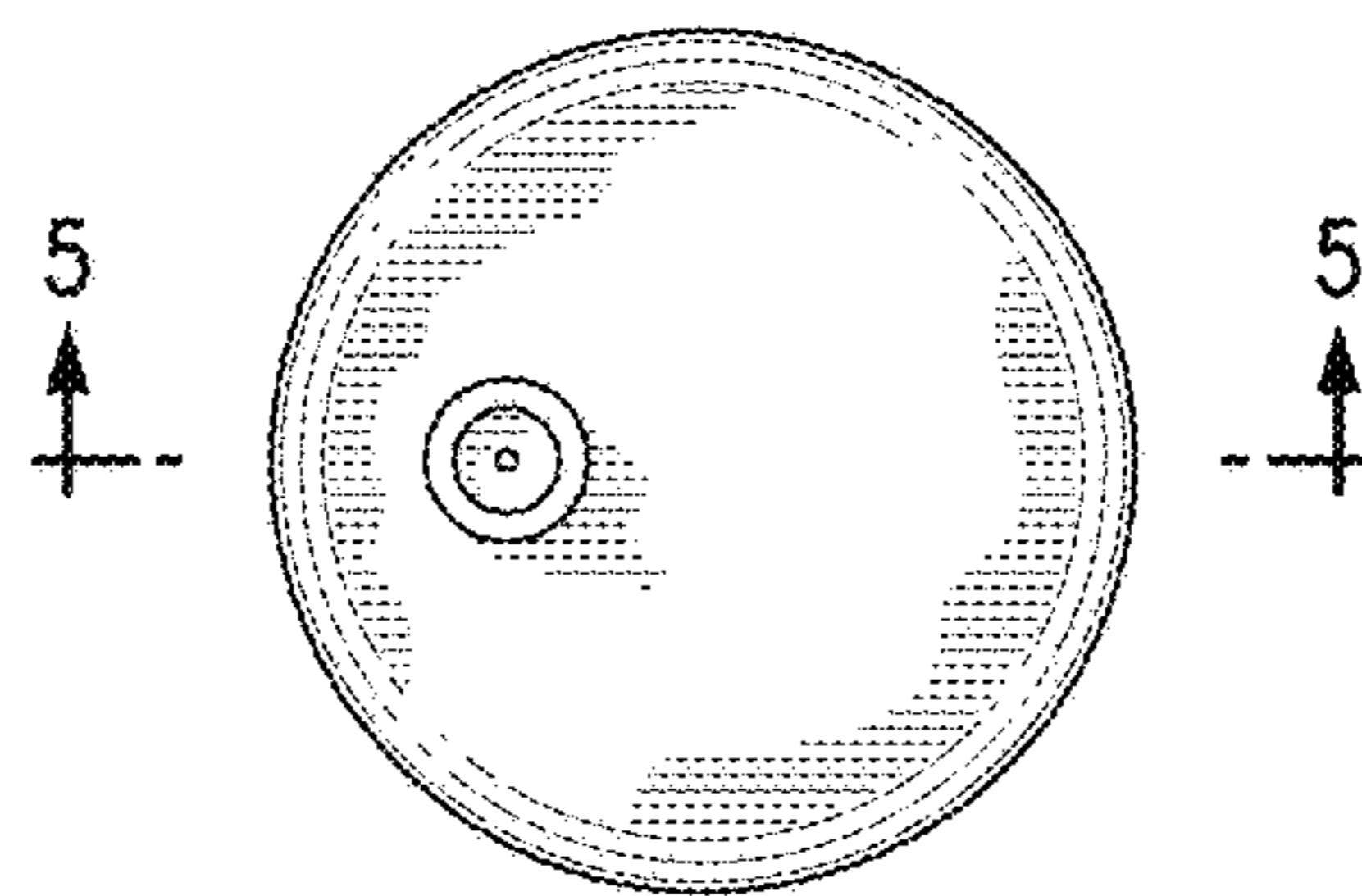


FIG. 3

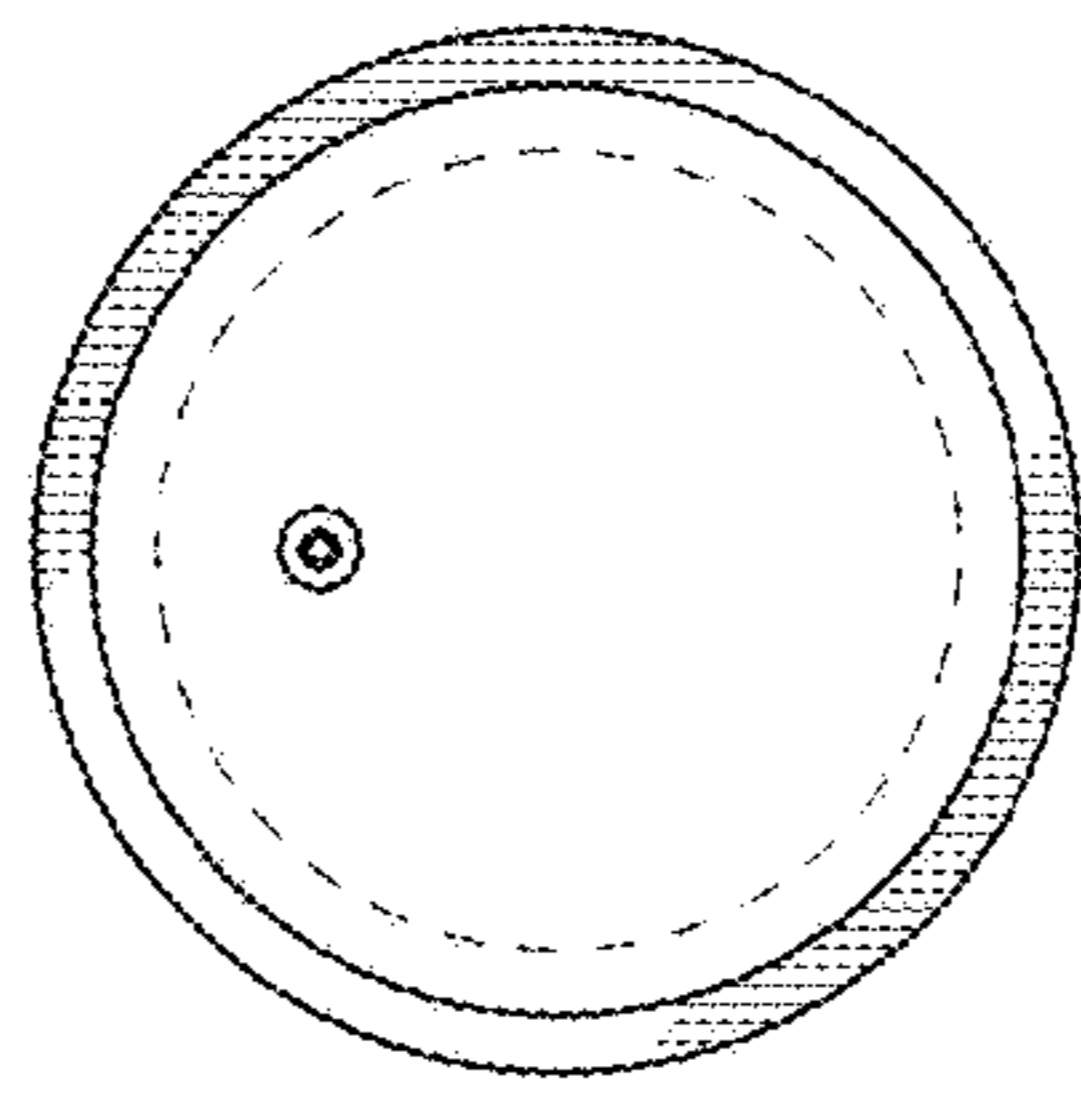


FIG. 4

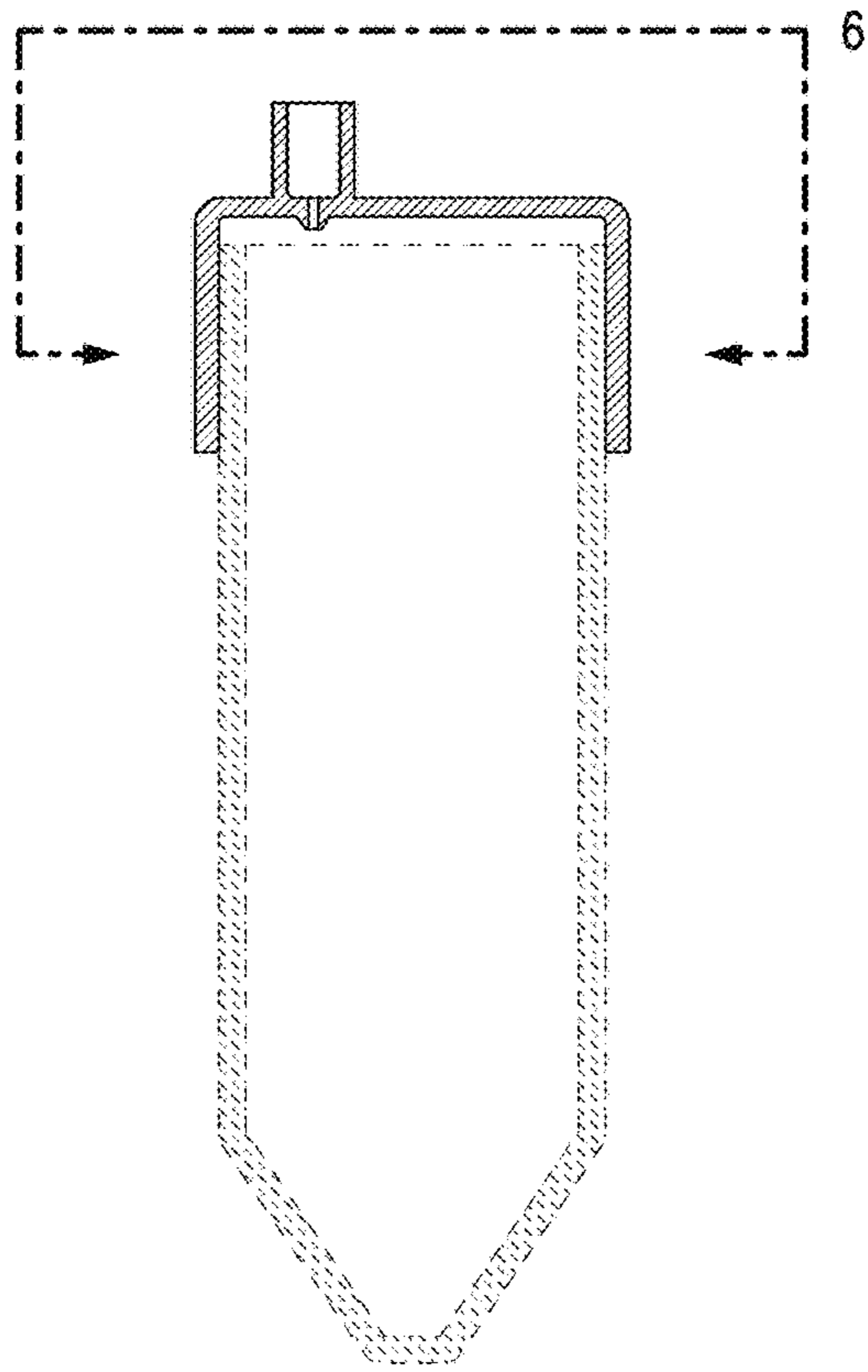


FIG. 5



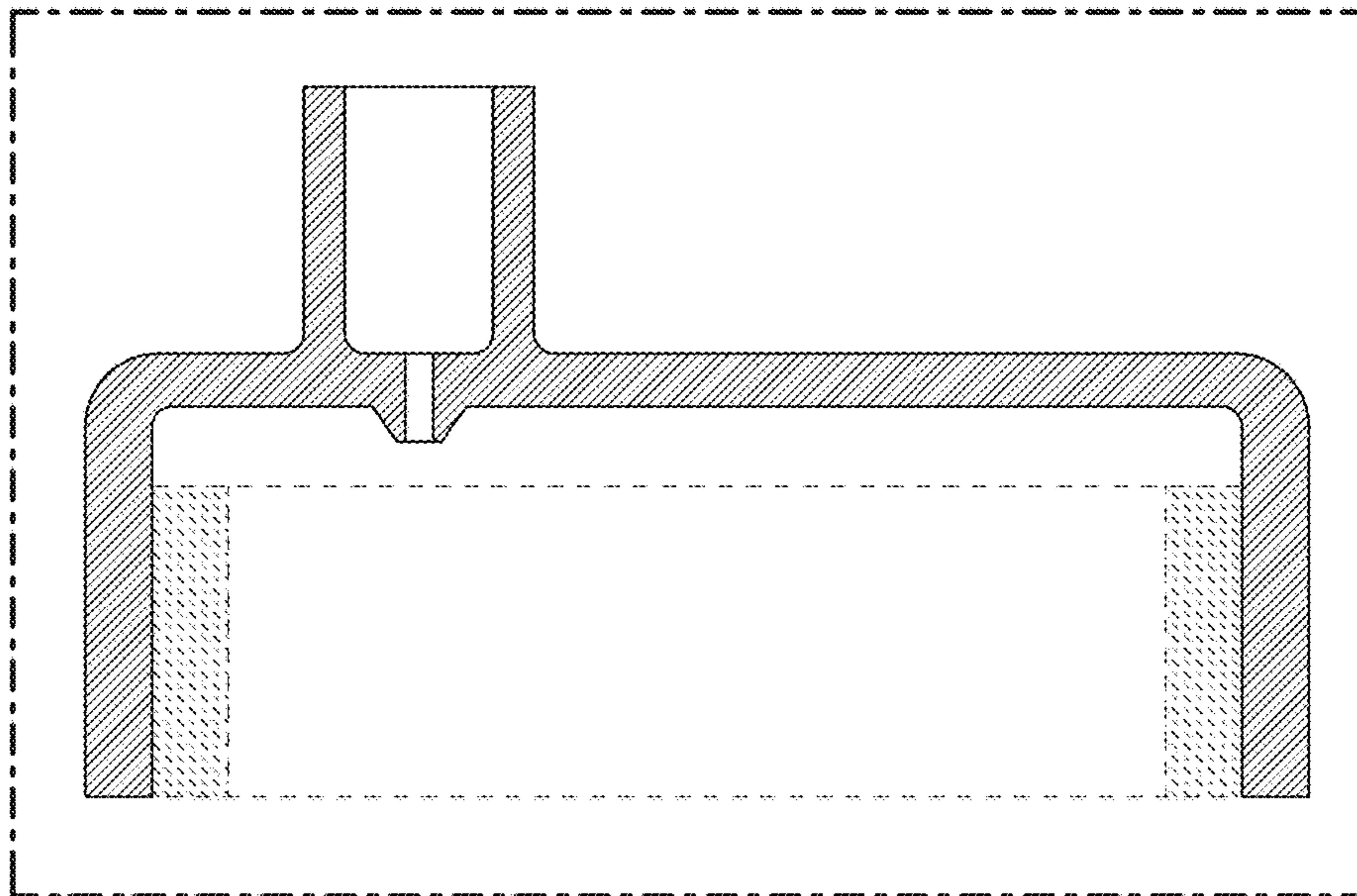


FIG. 6



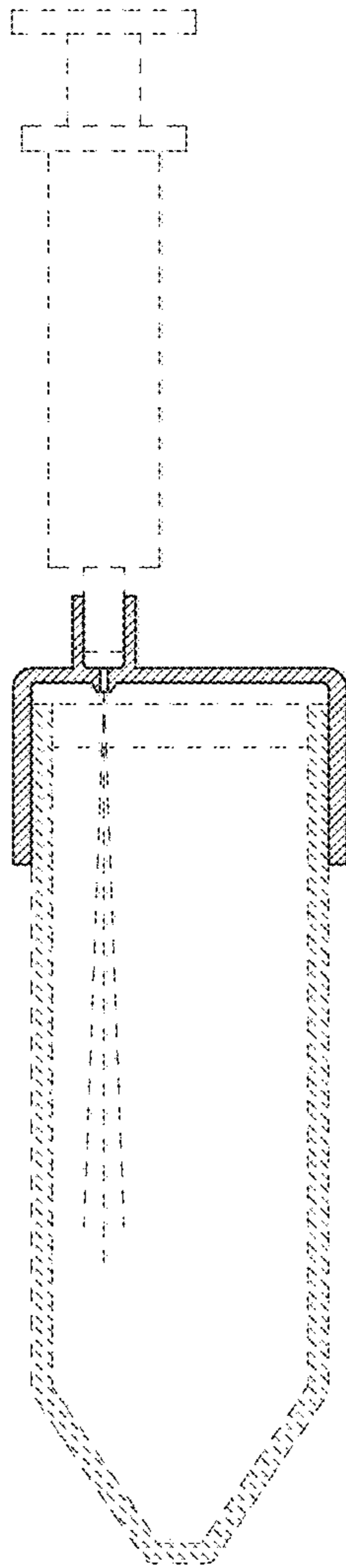


FIG. 7