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(12) **United States Design Patent** (10) **Patent No.:** **US D969,343 S**
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(54) **VALVE PLUG OF A VALVE FOR A SAMPLE COLLECTION DEVICE**

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

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Related U.S. Application Data

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18, 2019, now Pat. No. Des. 924,430.

(51) **LOC (13) Cl.** **24-01**

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

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D24/223–227, 231, 232; D10/81
CPC B01L 3/5027; B01L 3/502707; B01L
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B01L 3/52; B01L 3/563; B01L 3/565;
B01L 3/567; B01L 2300/024; B01L
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D315,680 S 3/1991 Baxter
D480,640 S 10/2003 Oyama et al.

D545,964 S 7/2007 Blanco
D656,236 S 3/2012 Marechal et al.
D687,145 S * 7/2013 Gronberg D24/129
D733,291 S 6/2015 Wang
D743,044 S * 11/2015 Jackson D24/129
D743,571 S 11/2015 Jackson et al.
D755,957 S 5/2016 Larson
D773,068 S 11/2016 Curry et al.
D794,781 S * 8/2017 Gilbert D24/129
10,064,606 B1 9/2018 Williams et al.
D867,587 S 11/2019 Holtz et al.
10,525,473 B2 * 1/2020 Williams B01L 3/502
10,799,422 B2 10/2020 Williams et al.
D917,691 S * 4/2021 Hamilton A61B 5/097
D24/224

(Continued)

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(57) **CLAIM**

The ornamental design for a valve plug of a valve for a sample collection device, as shown and described.

DESCRIPTION

FIG. 1 is a cross-sectional view of a valve plug of a valve for a sample collection device taken along line 1-1 of FIG. 2 shown within the environment of a sample collection device;

FIG. 2 is a front side view of the valve plug of a valve for a sample collection device with the environment removed for ease of illustration;

FIG. 3 is a top perspective view thereof;

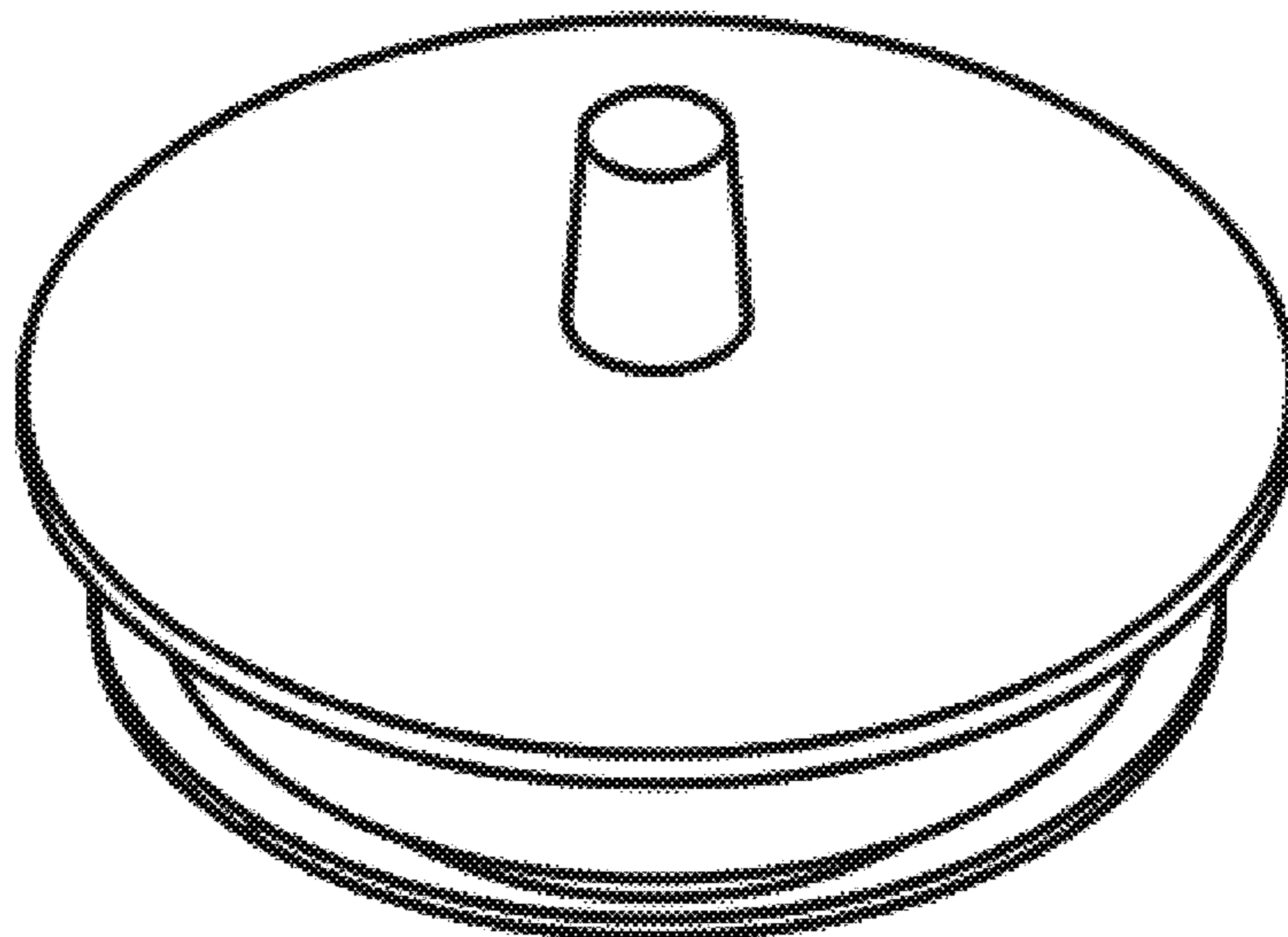
FIG. 4 is a bottom perspective view thereof;

FIG. 5 is a top plan view thereof; and,

FIG. 6 is a bottom plan view thereof.

In FIG. 1, the broken lines depicting the sample collection device represent environmental structure; the broken lines and the circular border form no part of the claimed design.

1 Claim, 1 Drawing Sheet



(56)

References Cited

U.S. PATENT DOCUMENTS

D922,572 S * 6/2021 Bertrand A61B 90/06
D24/129
D923,813 S * 6/2021 Livingston D24/224
D924,430 S * 7/2021 Johnson D24/224
D930,184 S * 9/2021 Johnson D24/224
11,284,867 B2 * 3/2022 Johnson B01L 3/50825
2014/0174212 A1 * 6/2014 Lundkvist B01L 3/52
73/864.91
2015/0056716 A1 2/2015 Oyler et al.
2015/0190810 A1 * 7/2015 Glezer B01L 3/502
436/180
2017/0072393 A1 3/2017 Jackson et al.
2019/0151842 A1 5/2019 Williams et al.
2020/0156056 A1 5/2020 Williams et al.
2020/0254460 A1 8/2020 Blair et al.
2020/0397418 A1 12/2020 Williams et al.

* cited by examiner

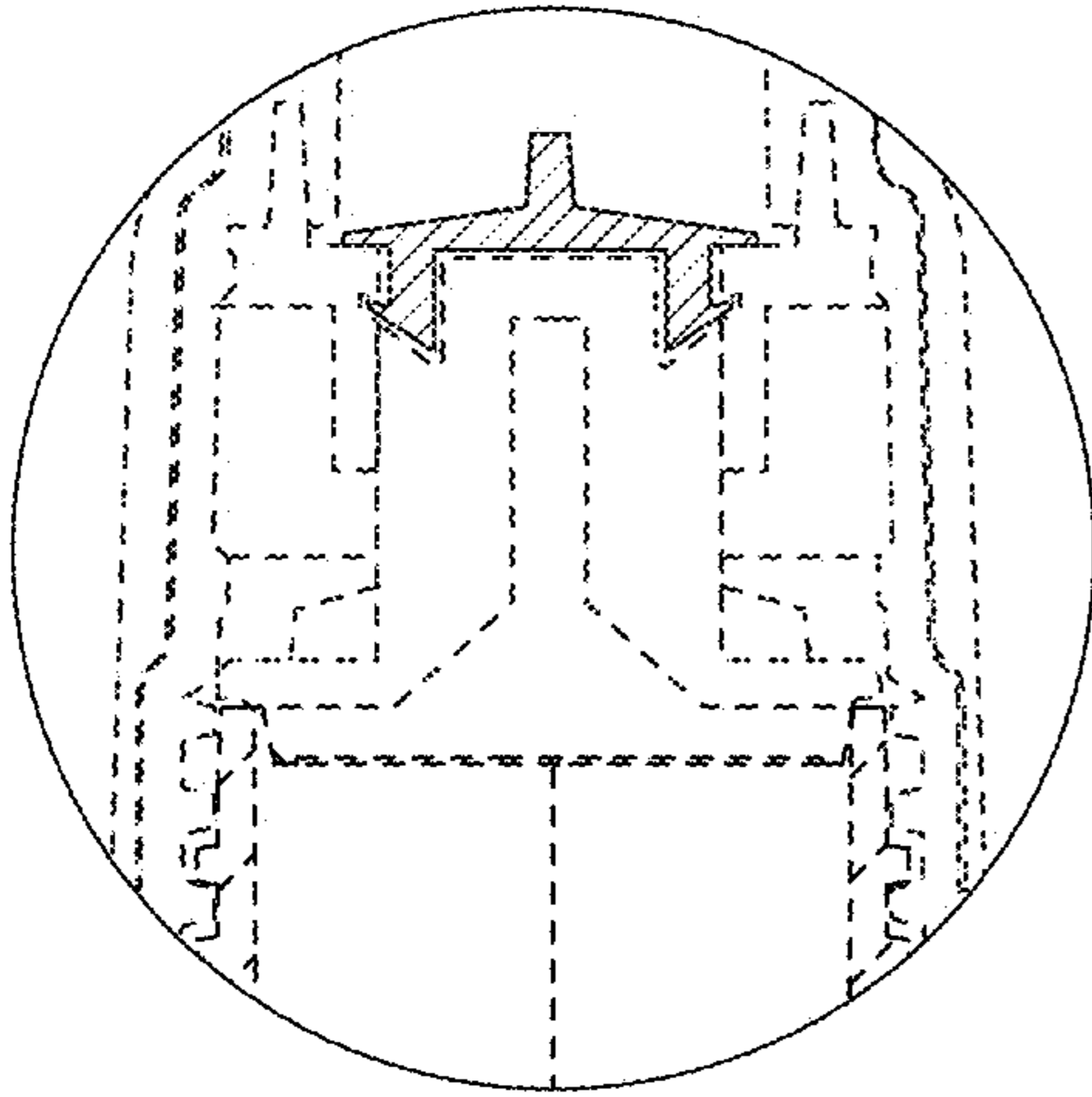


FIG. 1

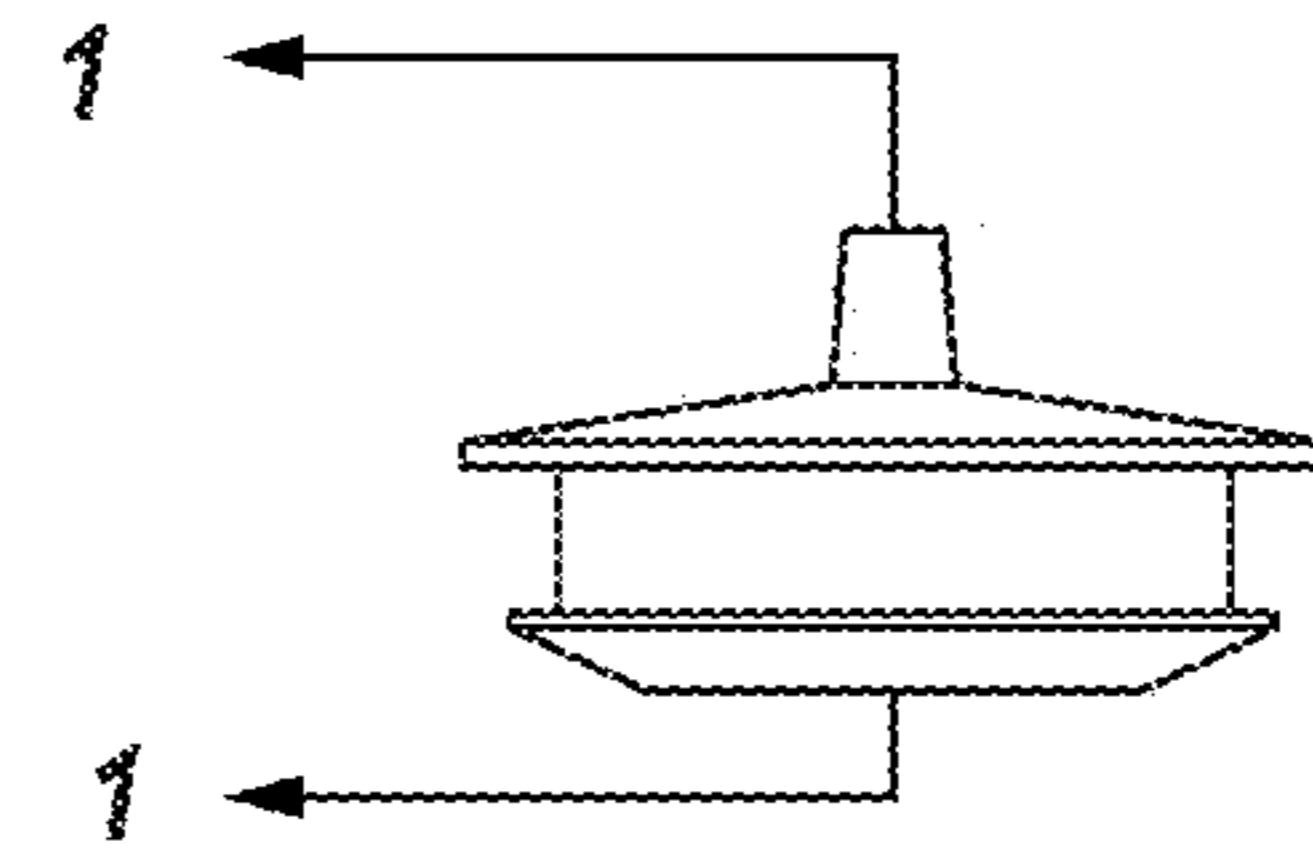


FIG. 2

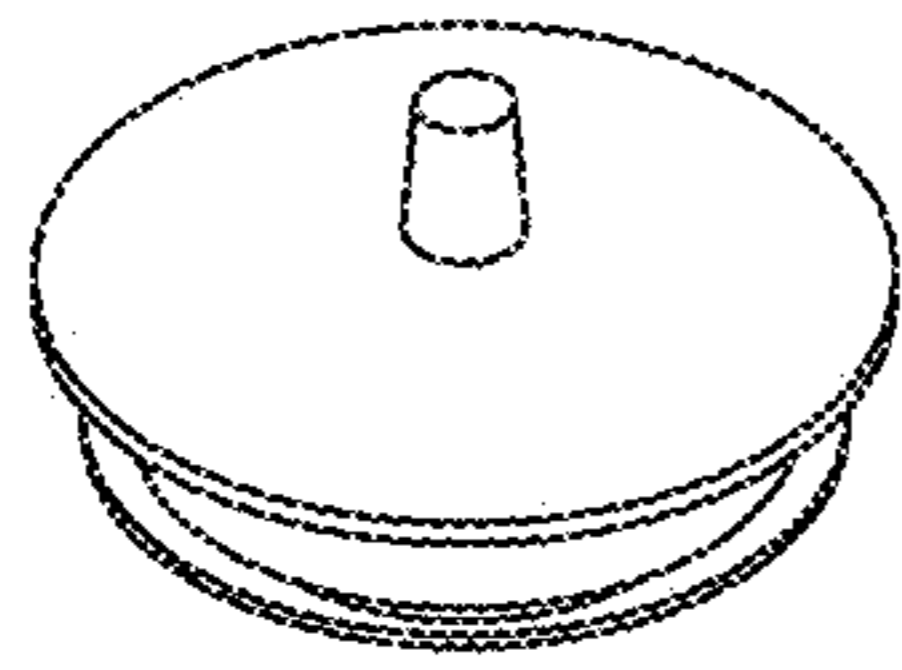


FIG. 3

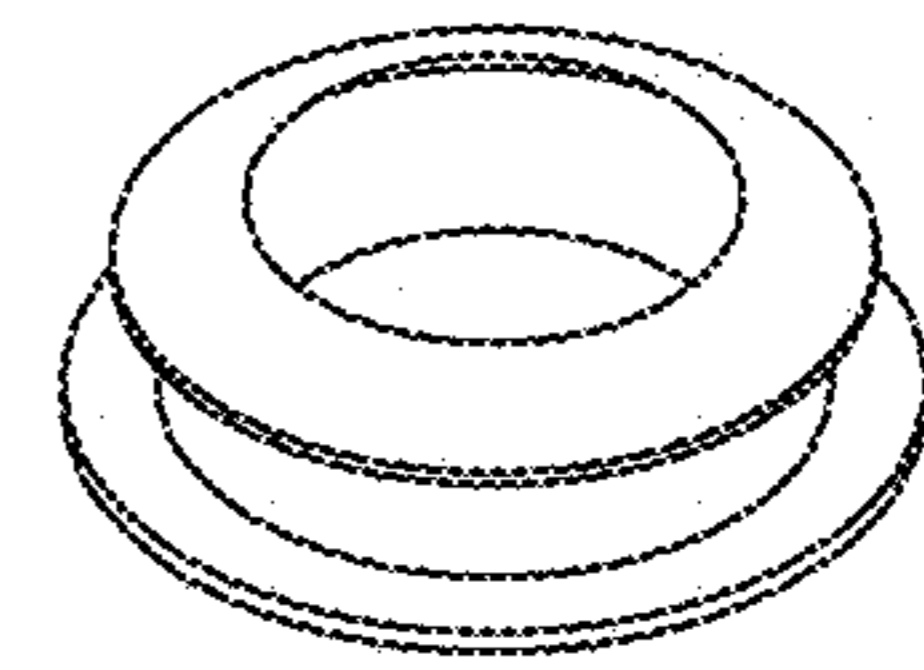


FIG. 4

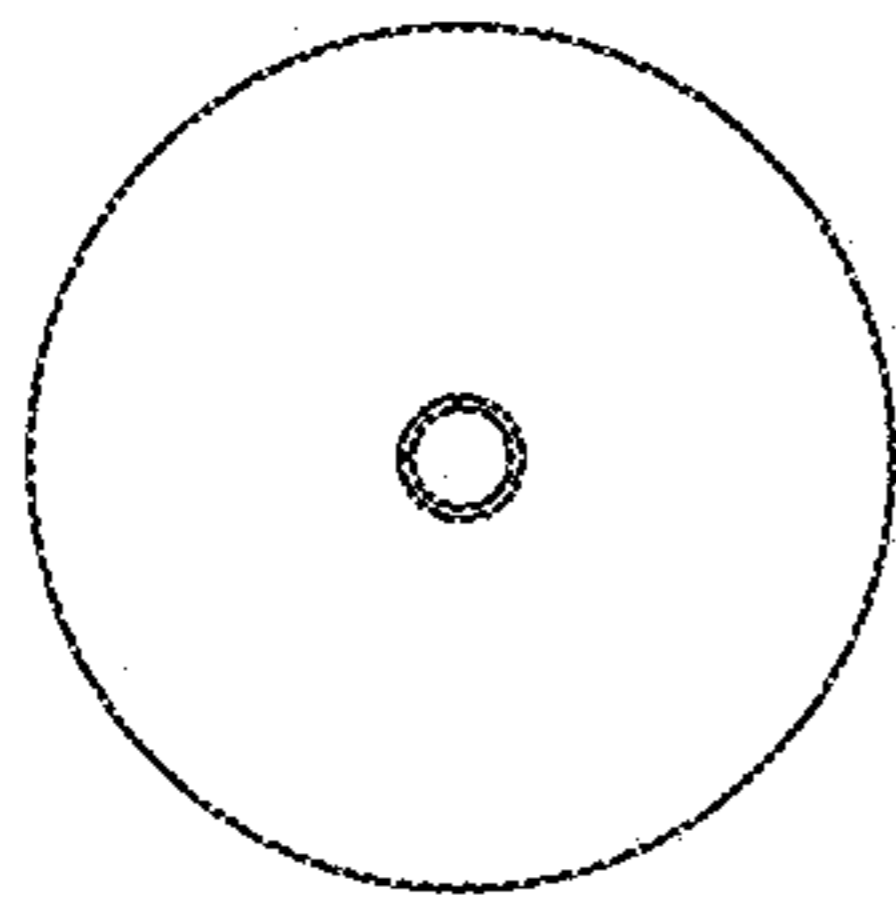


FIG. 5

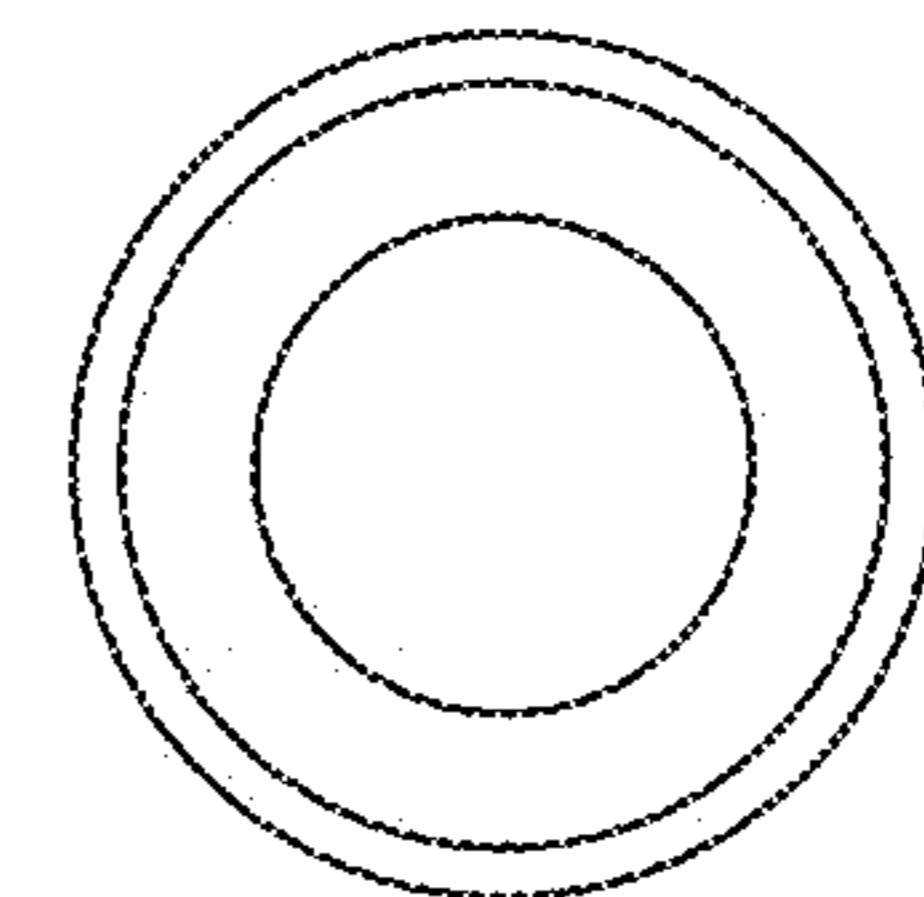


FIG. 6