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(12) United States Design Patent

Manusrungsri et al.

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(45) Date of Patent: ** Feb. 8, 2022

(54) **COCONUT PUNCTURING DEVICE**

(71) Applicant: **K Fresh Co., Ltd**, Samutprakarn (TH)

(72) Inventors: **Kemtas Manusrungsri**, Samutprakarn (TH); **Waraporn Manusrungsri**, Samutprakarn (TH)

(73) Assignee: **K FRESH CO., LTD**, Samutprakarn (TH)

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

(21) Appl. No.: **29/692,079**

(22) Filed: **May 22, 2019**

(30) **Foreign Application Priority Data**

Nov. 23, 2018 (TH) 1802005070
Nov. 23, 2018 (TH) 1802005071

(Continued)

(51) **LOC (13) Cl.** **31-00**

(52) **U.S. Cl.**
USPC **D7/381**

(58) **Field of Classification Search**
USPC D7/372, 376–386, 398, 412–413, 602, D7/629, 665–666, 669, 679, 693–694

(Continued)

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Primary Examiner — Ricky Pham

(74) *Attorney, Agent, or Firm* — Innovation Capital Law Group, LLP; Vic Lin

(57) **CLAIM**

The ornamental design for a coconut puncturing device, as shown and described.

DESCRIPTION

FIG. **1** is a front view of a first embodiment of a coconut puncturing device;
FIG. **2** is a left side view of the first embodiment of the coconut puncturing device;
FIG. **3** is a rear view of the first embodiment of the coconut puncturing device;
FIG. **4** is a top view of the first embodiment of the coconut puncturing device;
FIG. **5** is a bottom view of the first embodiment of the coconut puncturing device;
FIG. **6** is a perspective view of the first embodiment of the coconut puncturing device;
FIG. **7** is a rear view of the first embodiment of the coconut puncturing device, illustrating disconnection of a puncture tube retraction maintenance member;
FIG. **8** is a right side view of the first embodiment of the coconut puncturing device;
FIG. **9** is a rear view of the first embodiment of the coconut puncturing device, illustrating disconnection of a puncture tube retraction maintenance member and movement of the puncture tube to a puncture position;
FIG. **10** is a front view of a second embodiment of a coconut puncturing device;
FIG. **11** is a left side view of the second embodiment of the coconut puncturing device;
FIG. **12** is a rear view of the second embodiment of the coconut puncturing device;
FIG. **13** is a top view of the second embodiment of the coconut puncturing device;
FIG. **14** is a bottom view of the second embodiment of the coconut puncturing device;
FIG. **15** is a perspective view of the second embodiment of the coconut puncturing device;

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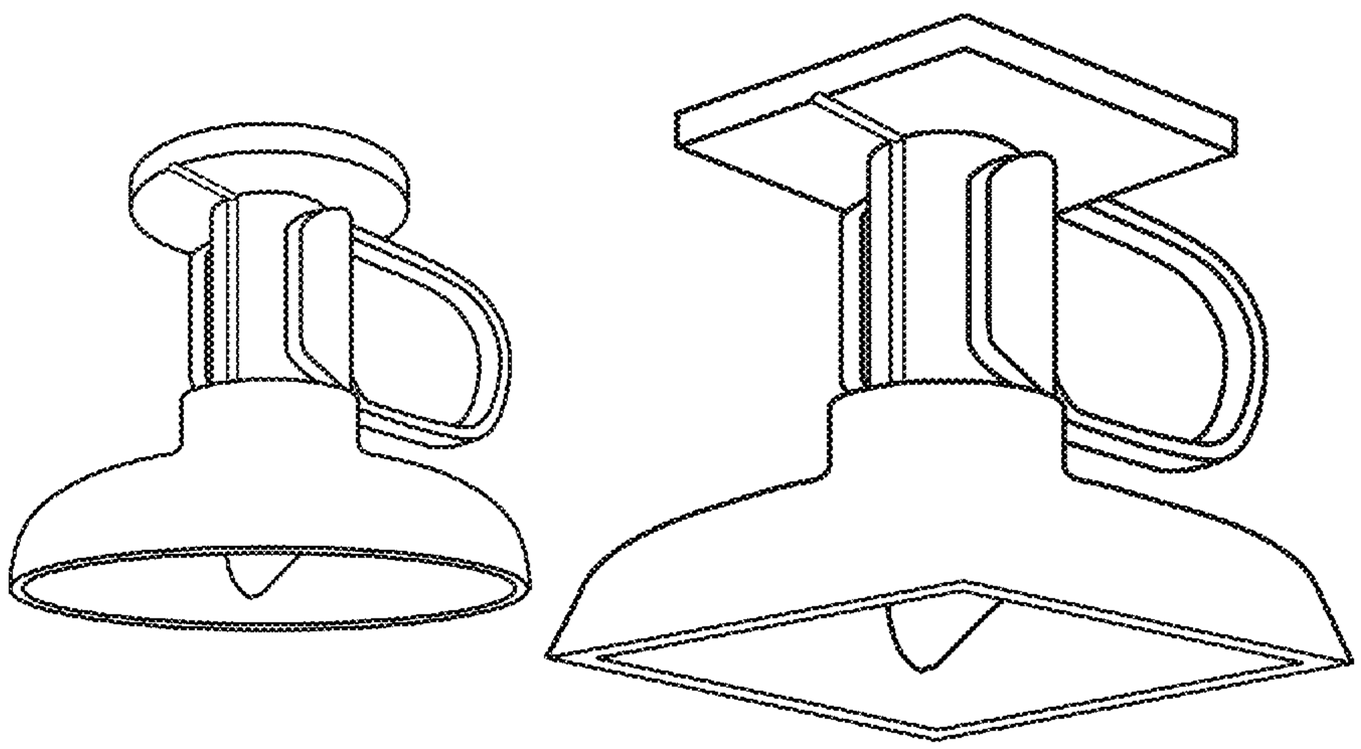

FIG. **16** is a rear view of the second embodiment of the coconut puncturing device, illustrating disconnection of a puncture tube retraction maintenance member;
FIG. **17** is a right side view of the second embodiment of the coconut puncturing device;
FIG. **18** is a rear view of the second embodiment of the coconut puncturing device, illustrating disconnection of a puncture tube retraction maintenance member and movement of the puncture tube to a puncture position;
FIG. **19** is a front view of a third embodiment of a coconut puncturing device, showing our new design;
FIG. **20** is a left side view of the third embodiment of the coconut puncturing device;
FIG. **21** is a rear view of the third embodiment of the coconut puncturing device;
FIG. **22** is a top view of the third embodiment of the coconut puncturing device;
FIG. **23** is a bottom view of the third embodiment of the coconut puncturing device;
FIG. **24** is a perspective view of the third embodiment of the coconut puncturing device;
FIG. **25** is a rear view of the third embodiment of the coconut puncturing device, illustrating disconnection of a puncture tube retraction maintenance member;
FIG. **26** is a right side view of the third embodiment of the coconut puncturing device; and,
FIG. **27** is a rear view of the third embodiment of the coconut puncturing device, illustrating disconnection of a puncture tube retraction maintenance member and movement of the puncture tube to a puncture position.

1 Claim, 27 Drawing Sheets

(30) **Foreign Application Priority Data**

Mar. 20, 2019 (TH) 1902001085
Mar. 20, 2019 (TH) 1902001086

(58) **Field of Classification Search**
CPC A21C 1/02; A21C 1/04; A23L 2/04; A23N 1/00; A23N 1/02; A47J 19/02; A47J 43/04; A47J 43/24; A47J 43/25; A47J 43/26; A47J 43/27; A47J 43/042; A47J 43/044; A47J 43/046; A47J 43/075; A47J 43/0722; A47J 43/0727; B01F 3/00; B01F 3/04744; B01F 3/0807; B01F 3/0853; B01F 13/0059; B01F 13/0064; B02C 1/08; B02C 2/04; B02C 4/42; B02C 4/142; B02C 4/143; B02C 4/423; B02C 13/1835; B28C 5/10; B28C 5/12; B28C 5/14; B28C 5/16; B30B 9/10; B65D 39/00; B65D 75/5877; B65D 77/068; B67B 7/26; B67C 9/00
See application file for complete search history.

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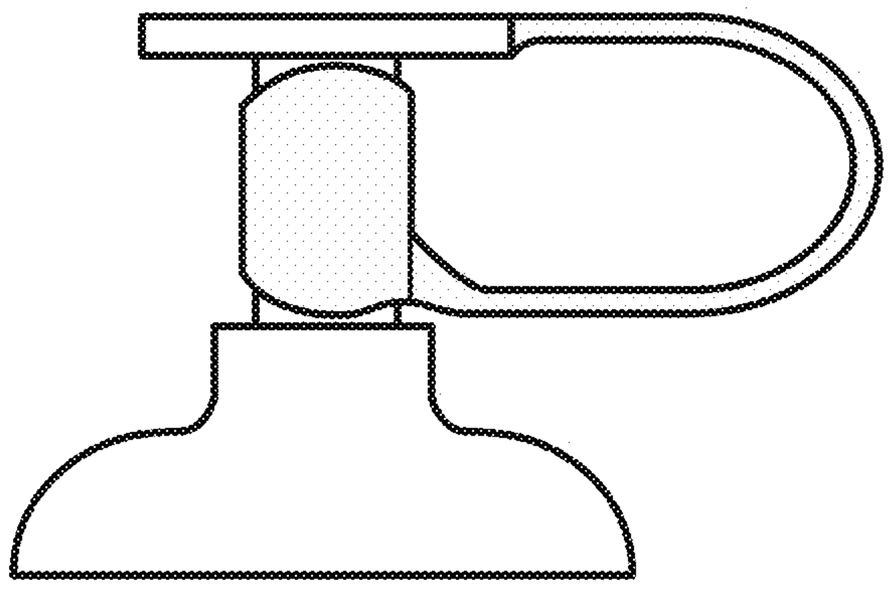


FIG. 1

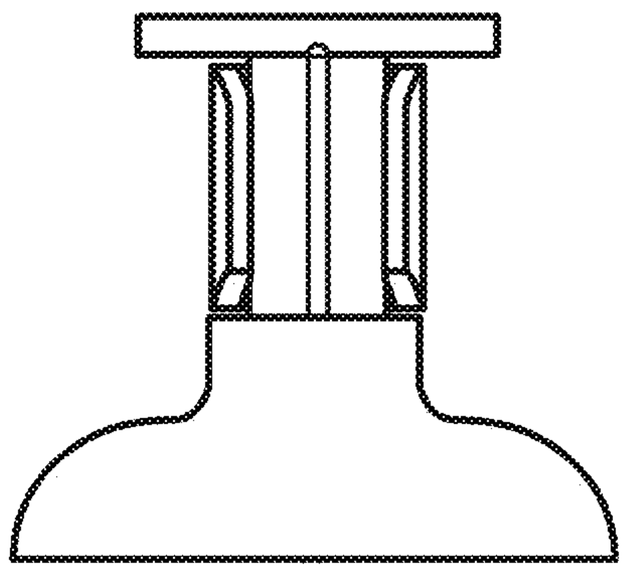


FIG. 2

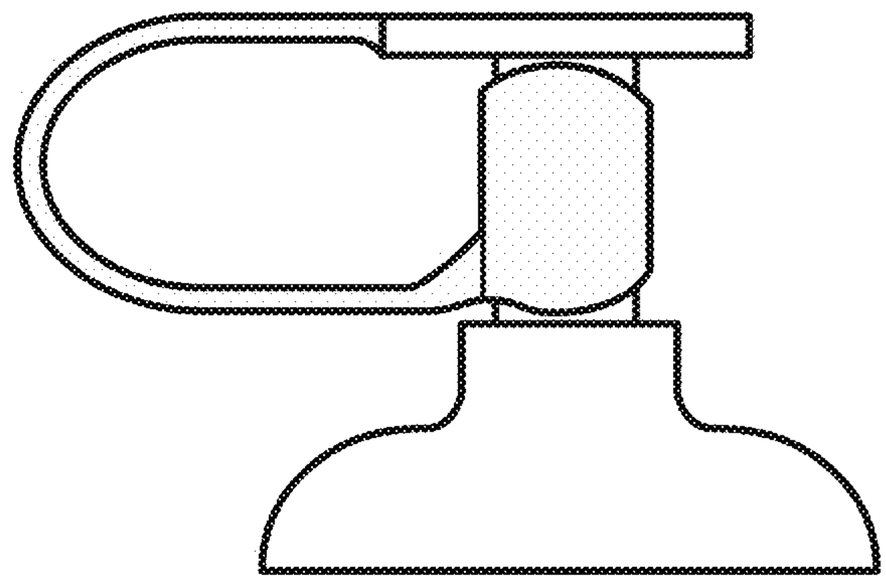


FIG. 3

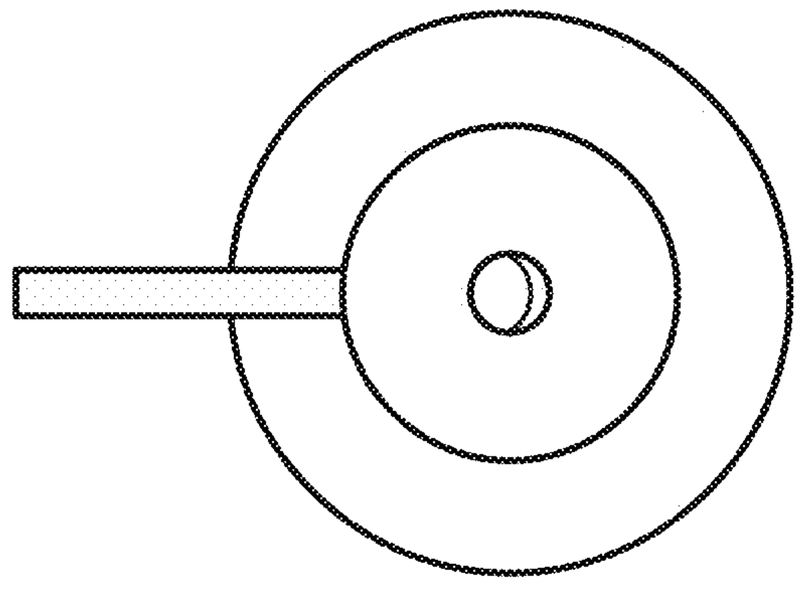


FIG. 4

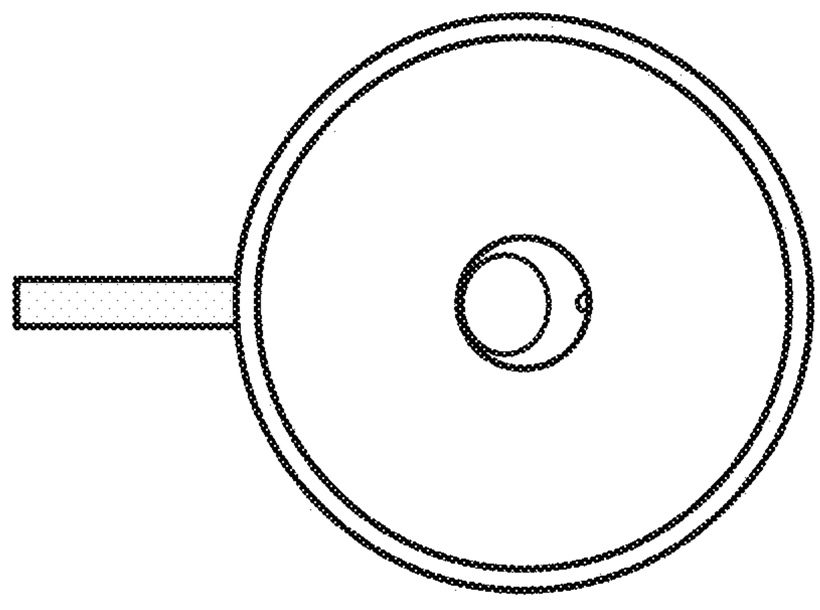


FIG. 5

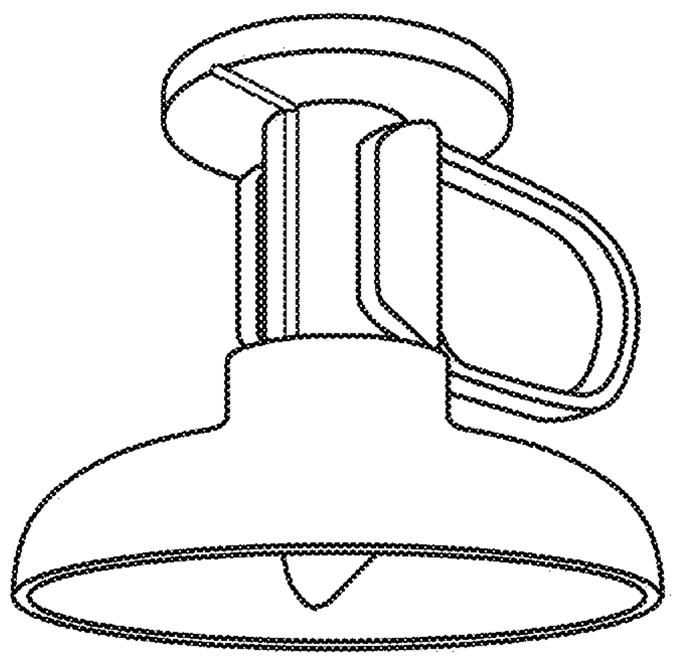


FIG. 6

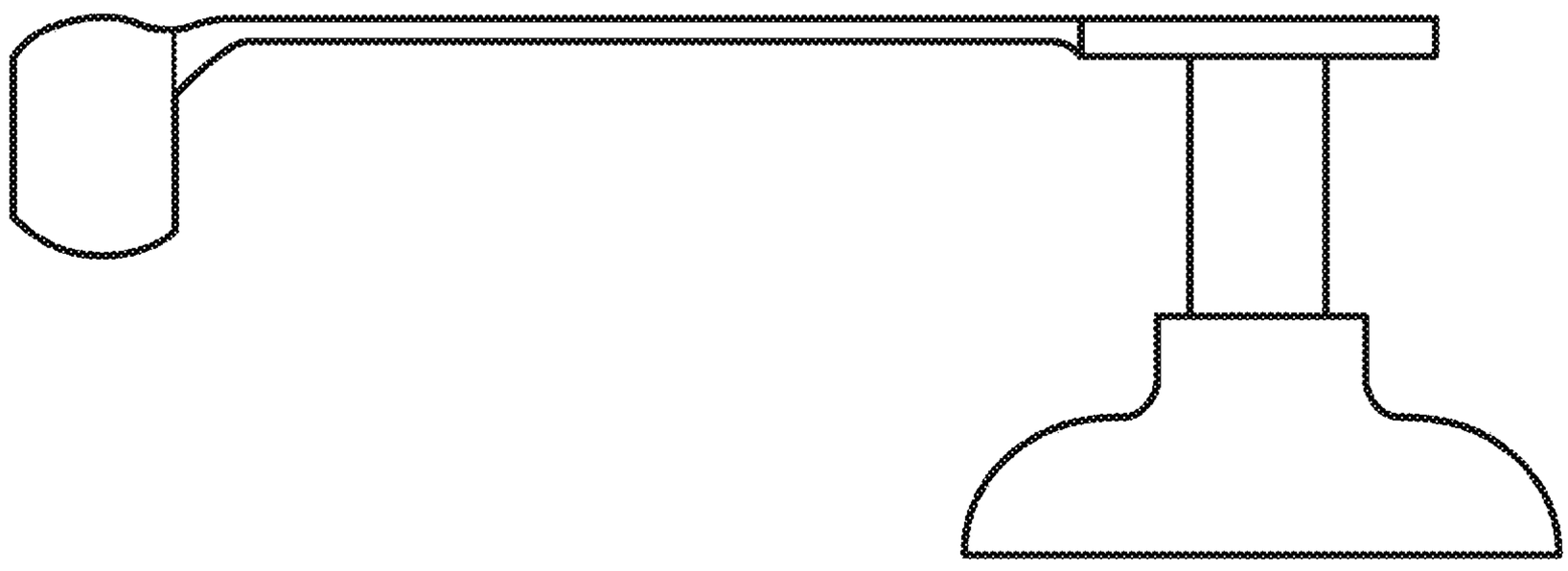


FIG. 7

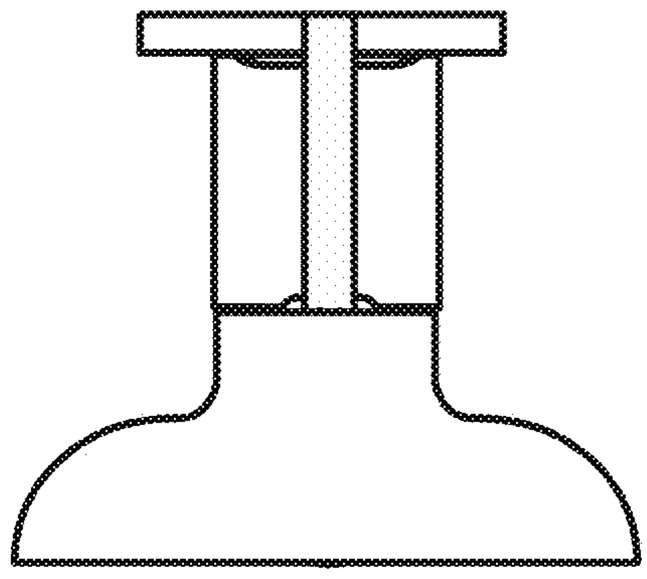


FIG. 8

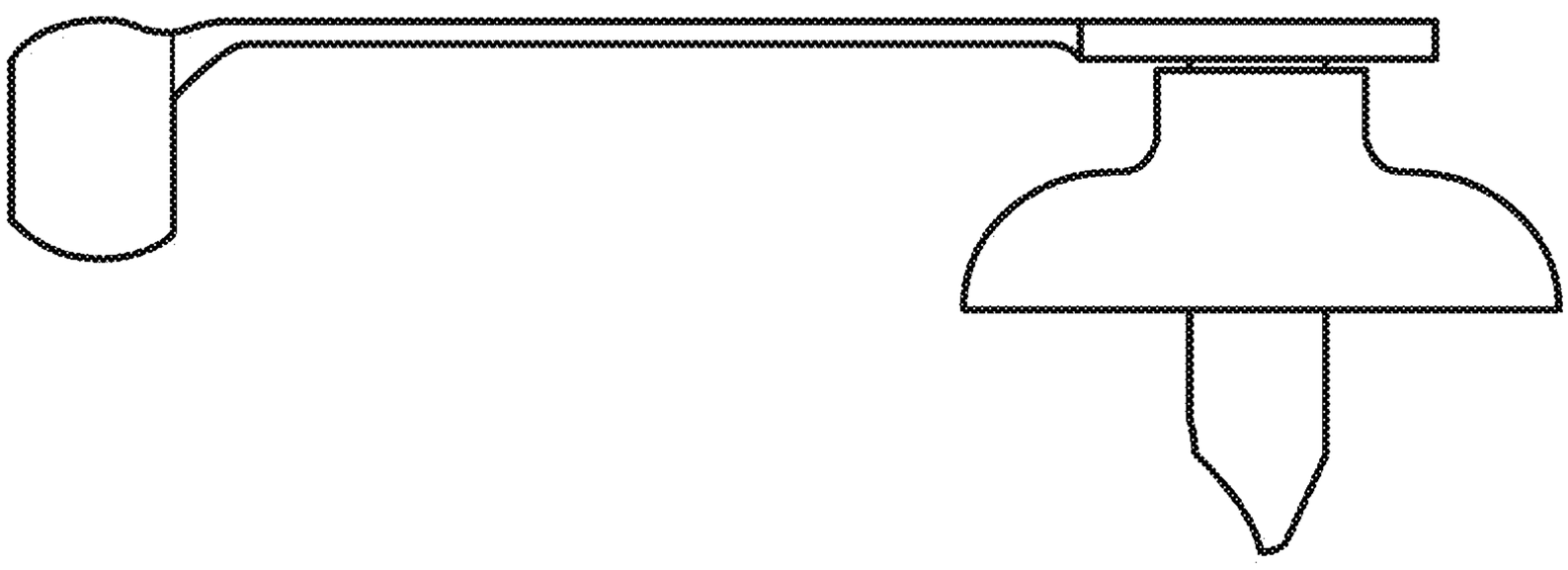


FIG. 9

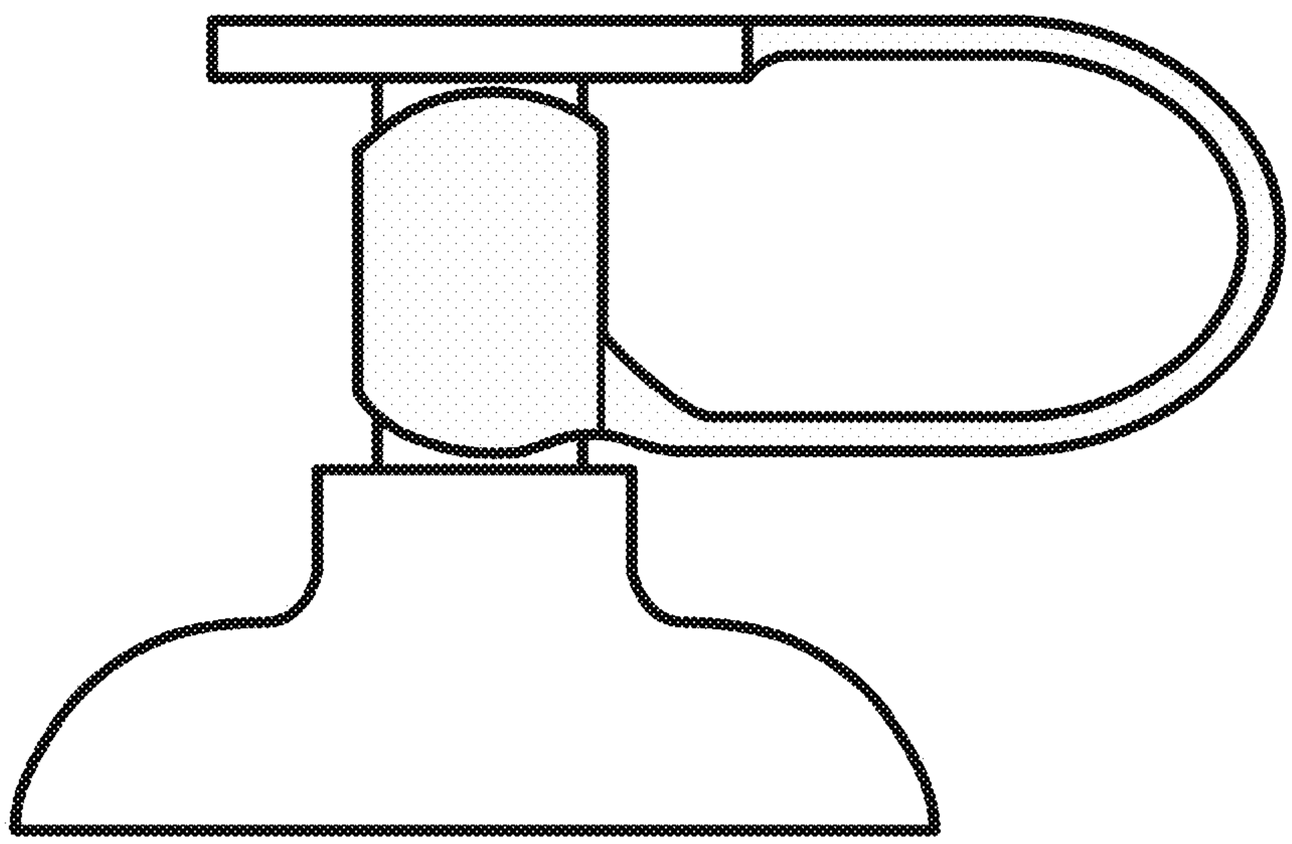


FIG. 10

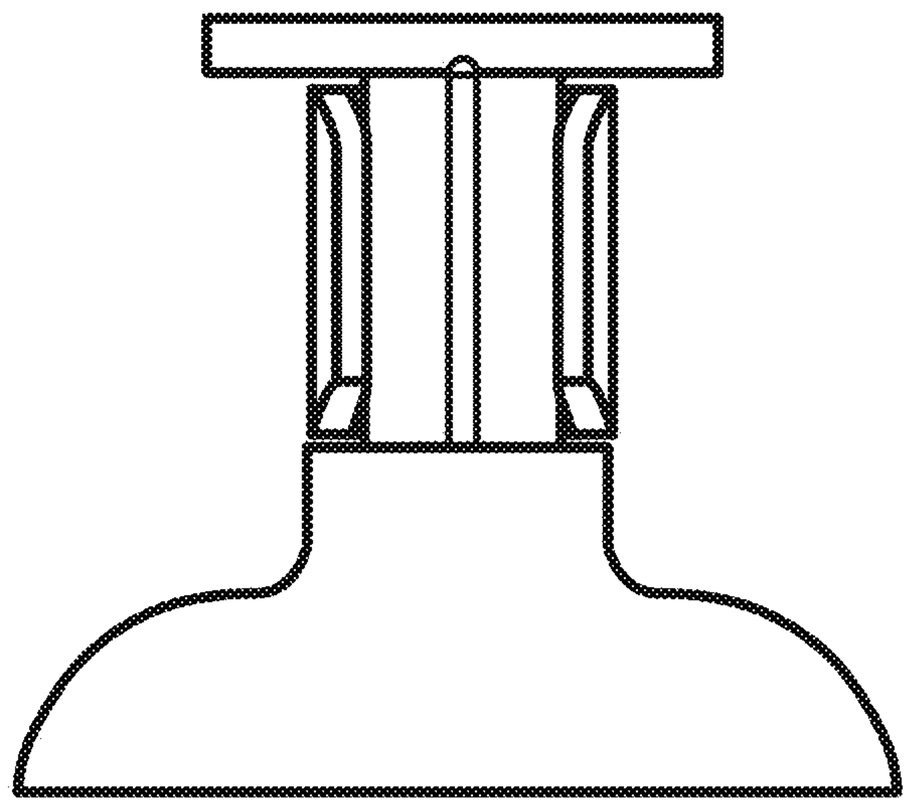


FIG. 11

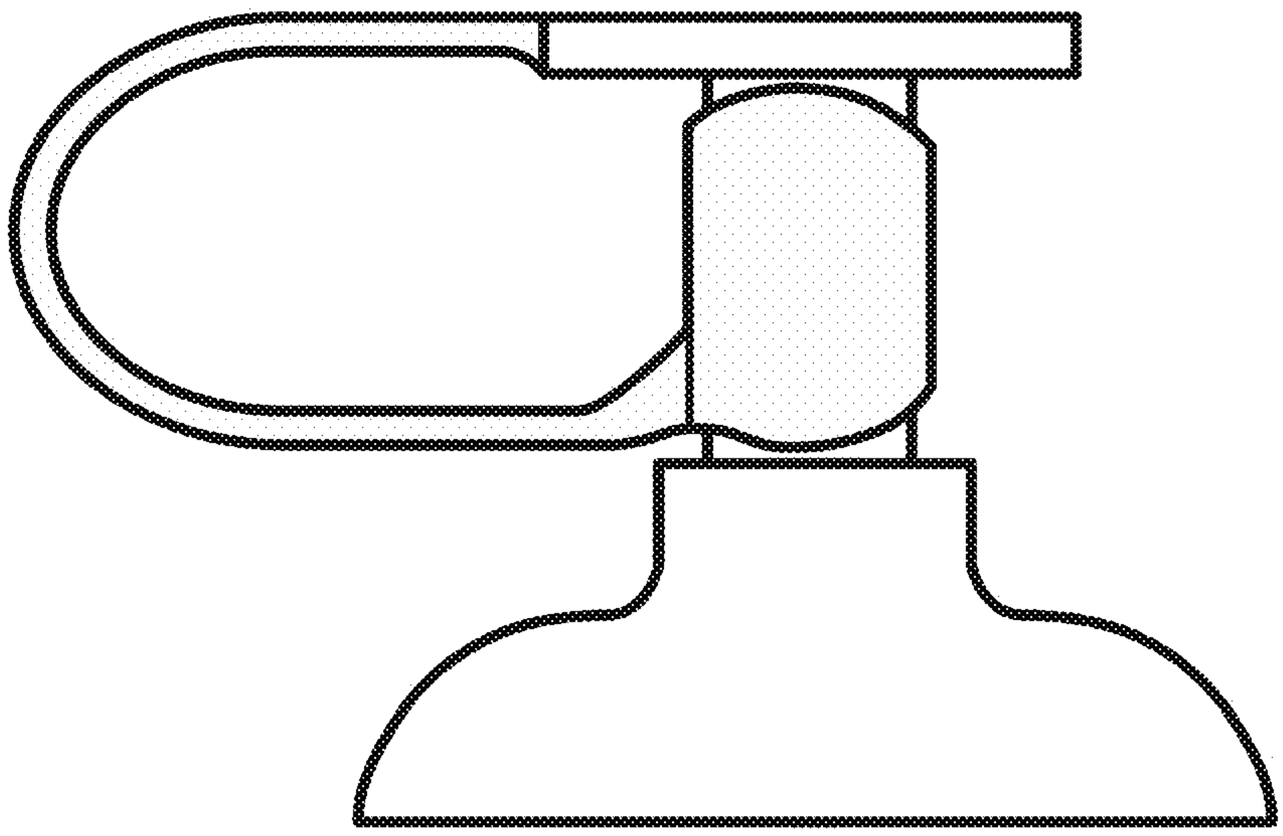


FIG. 12

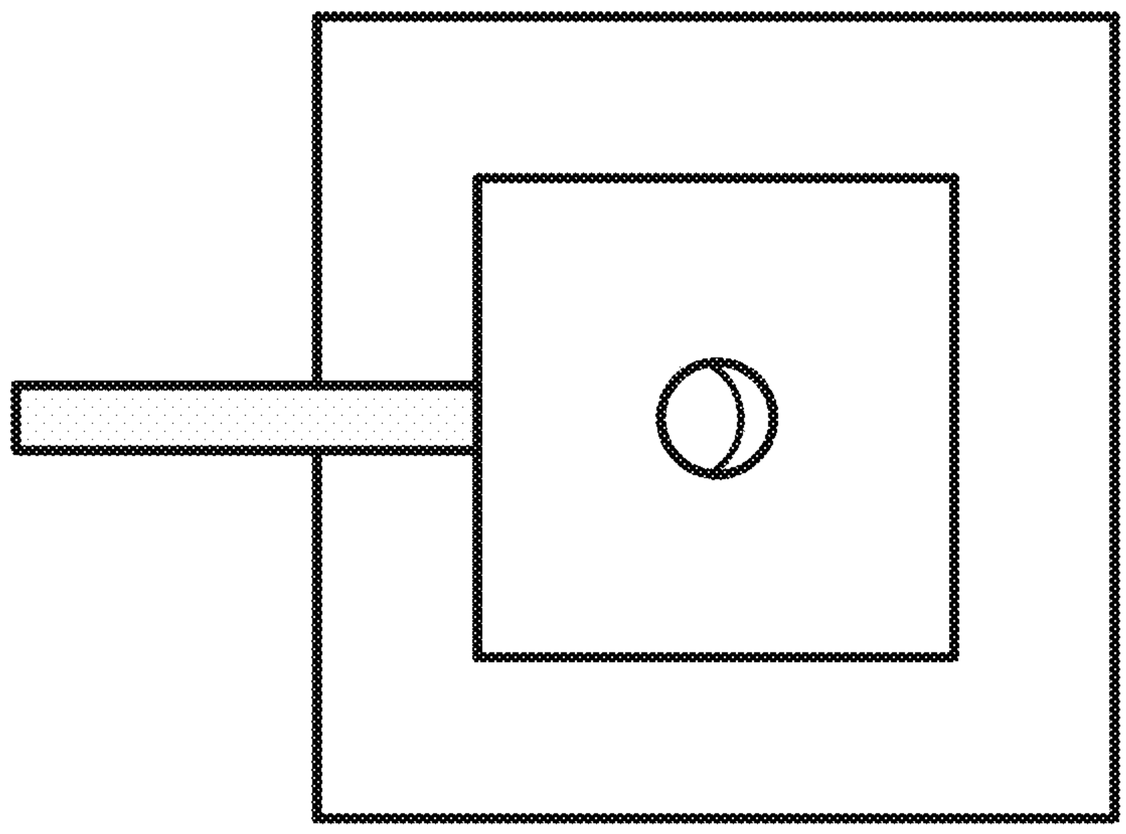
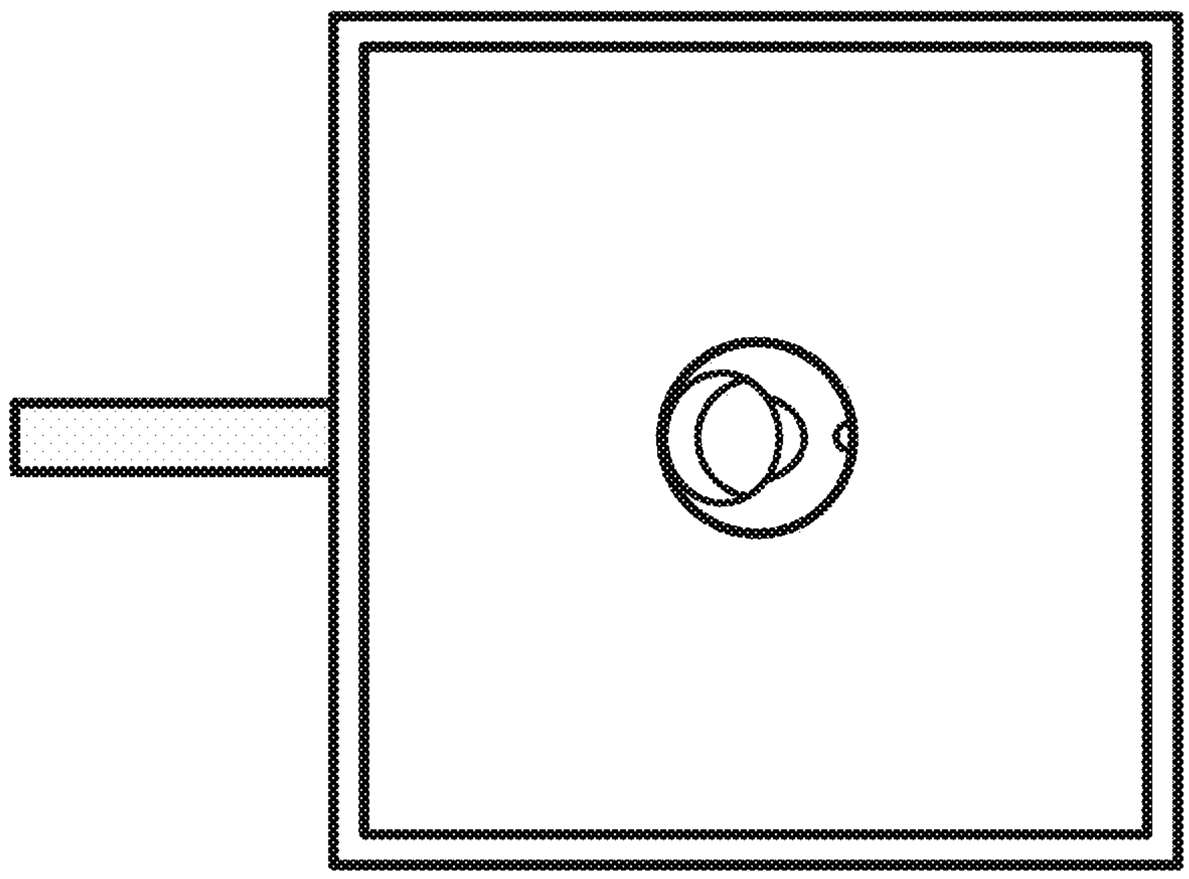


FIG. 13



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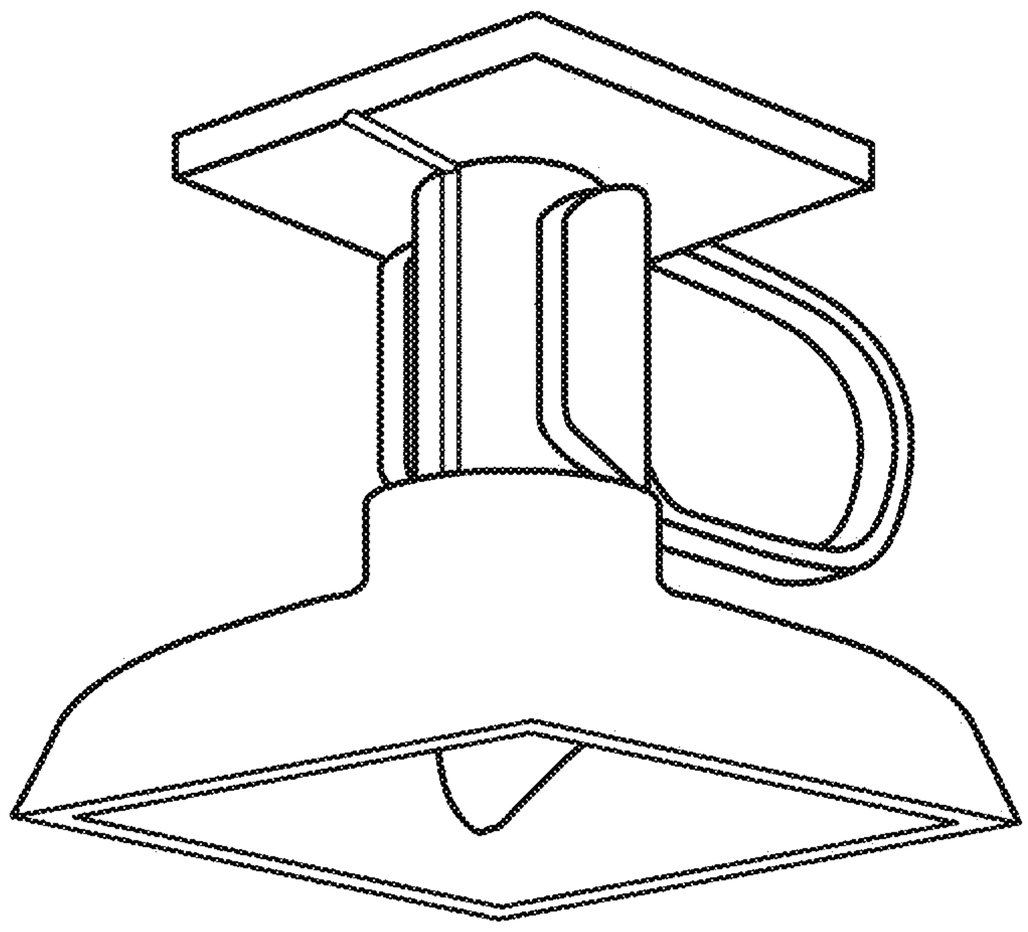

FIG. 15

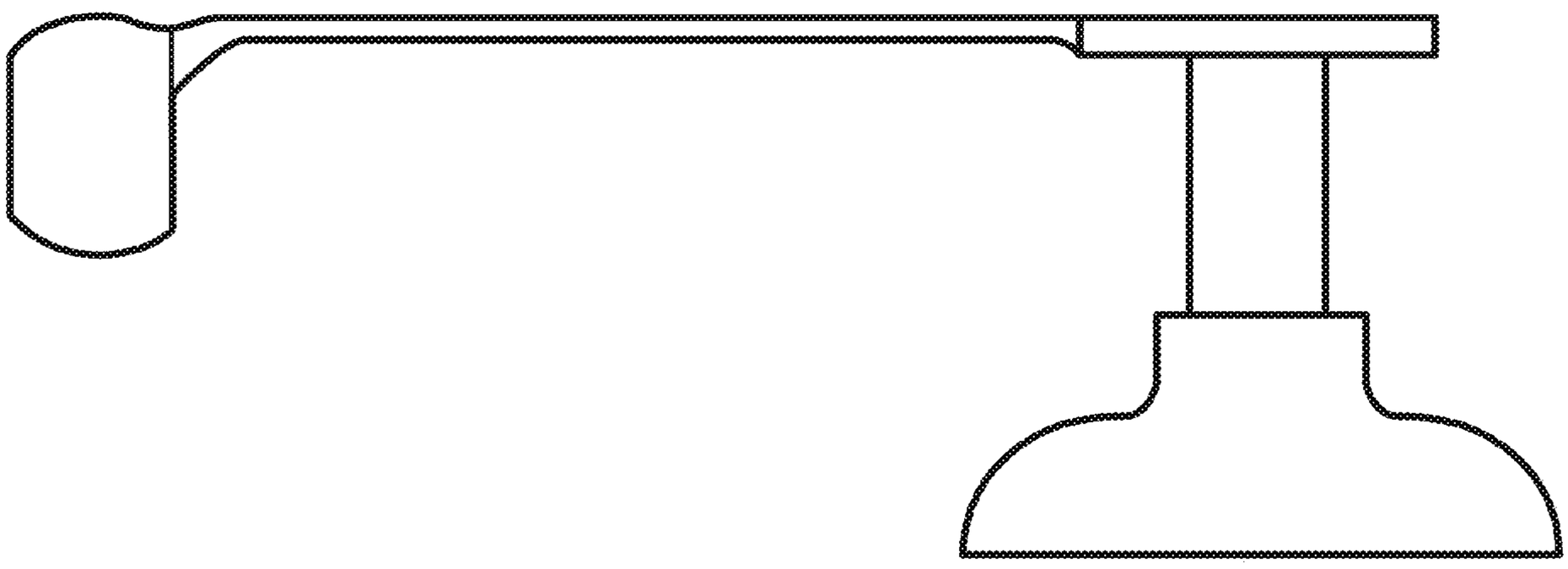

FIG. 16

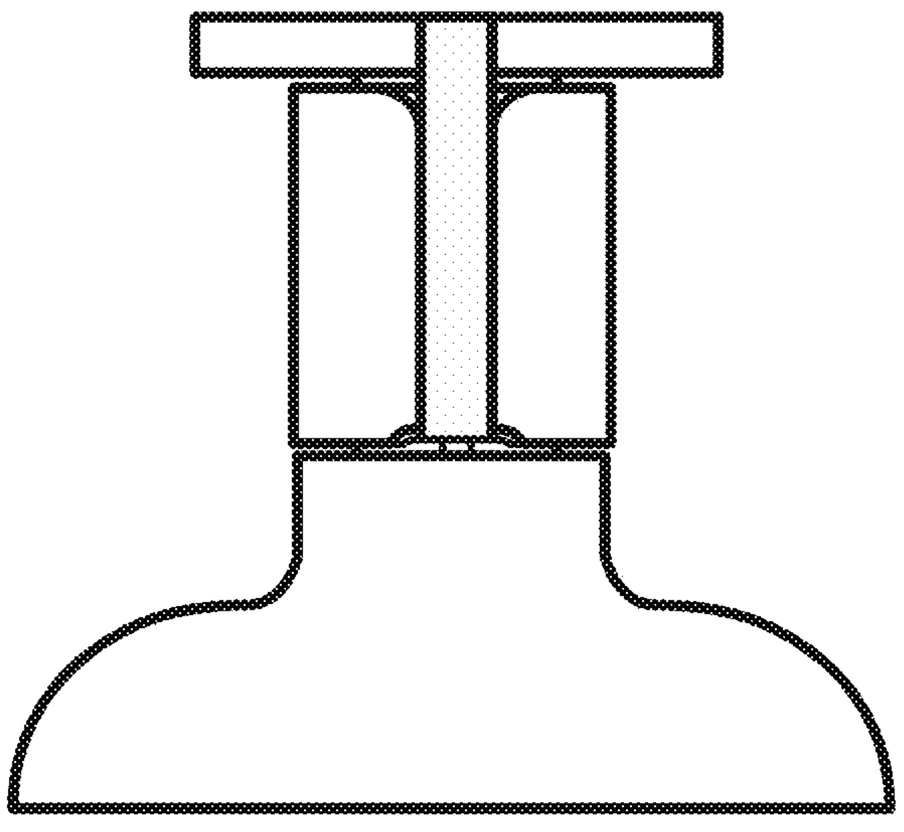

FIG. 17

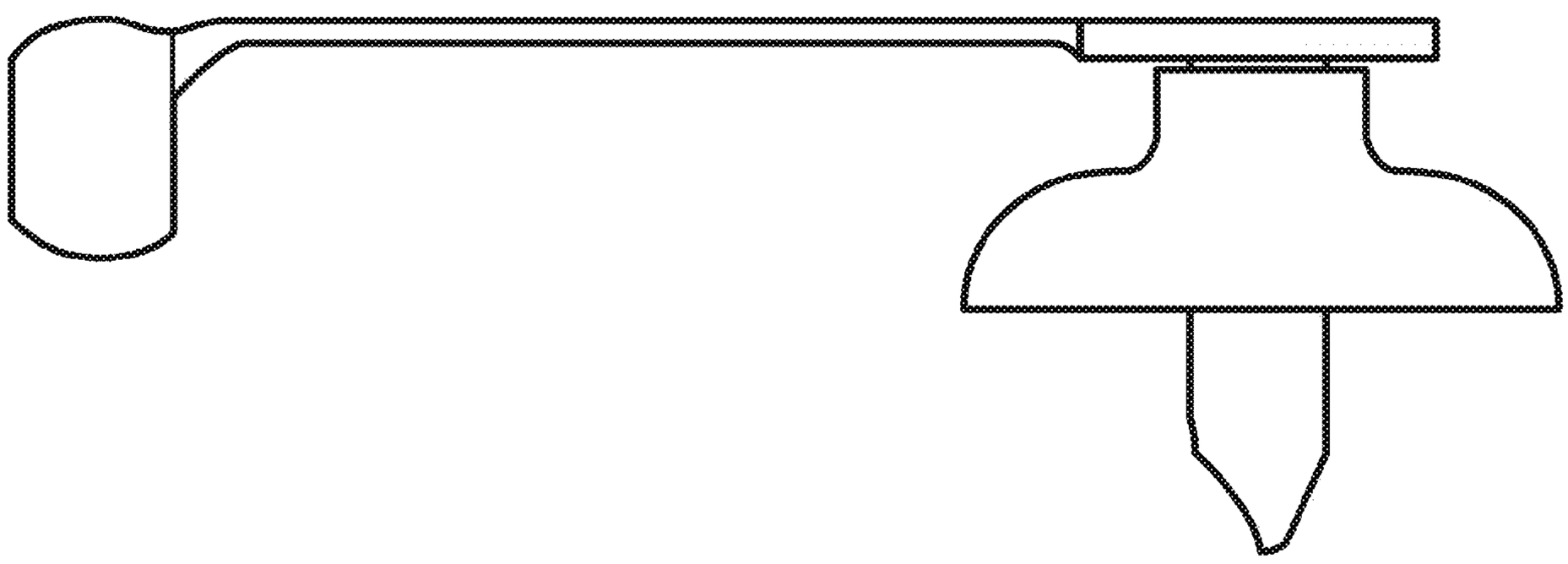

FIG. 18

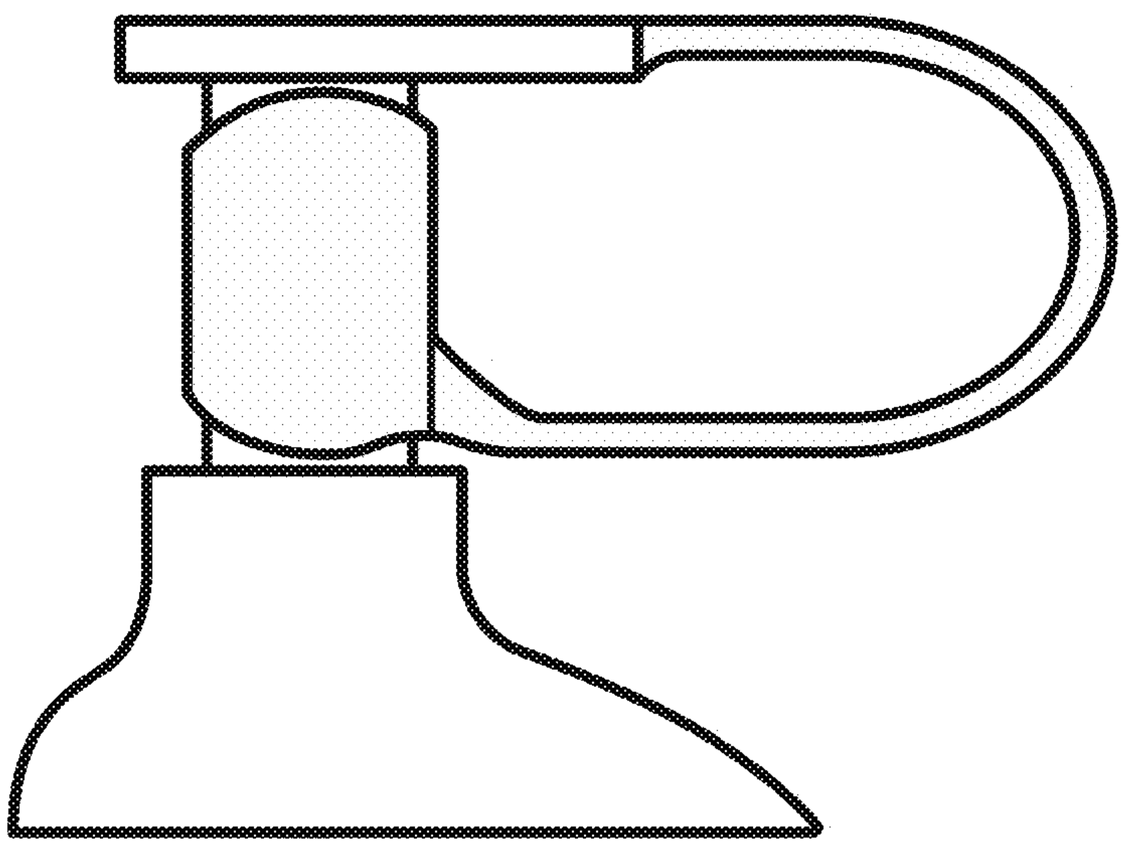

FIG. 19

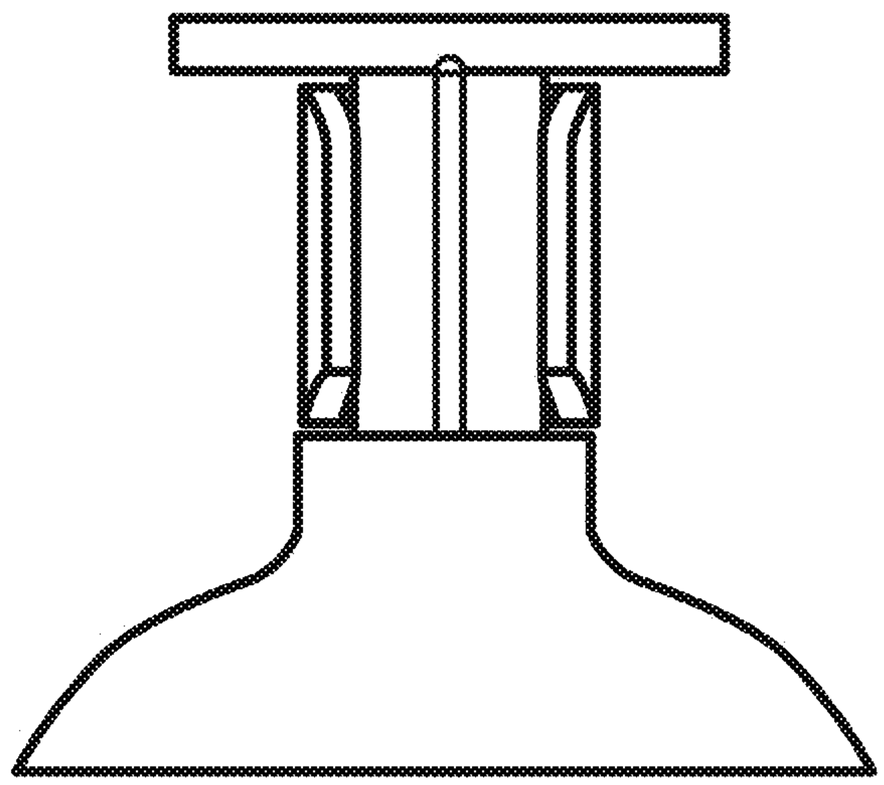

FIG. 20

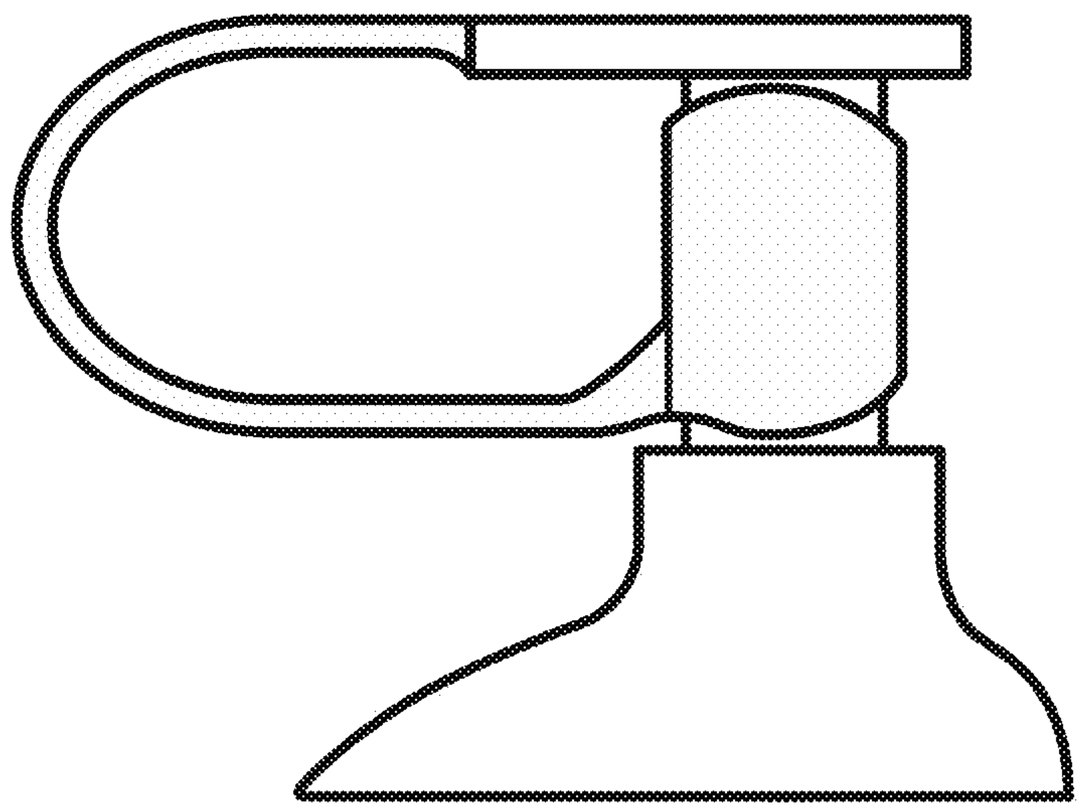

FIG. 21

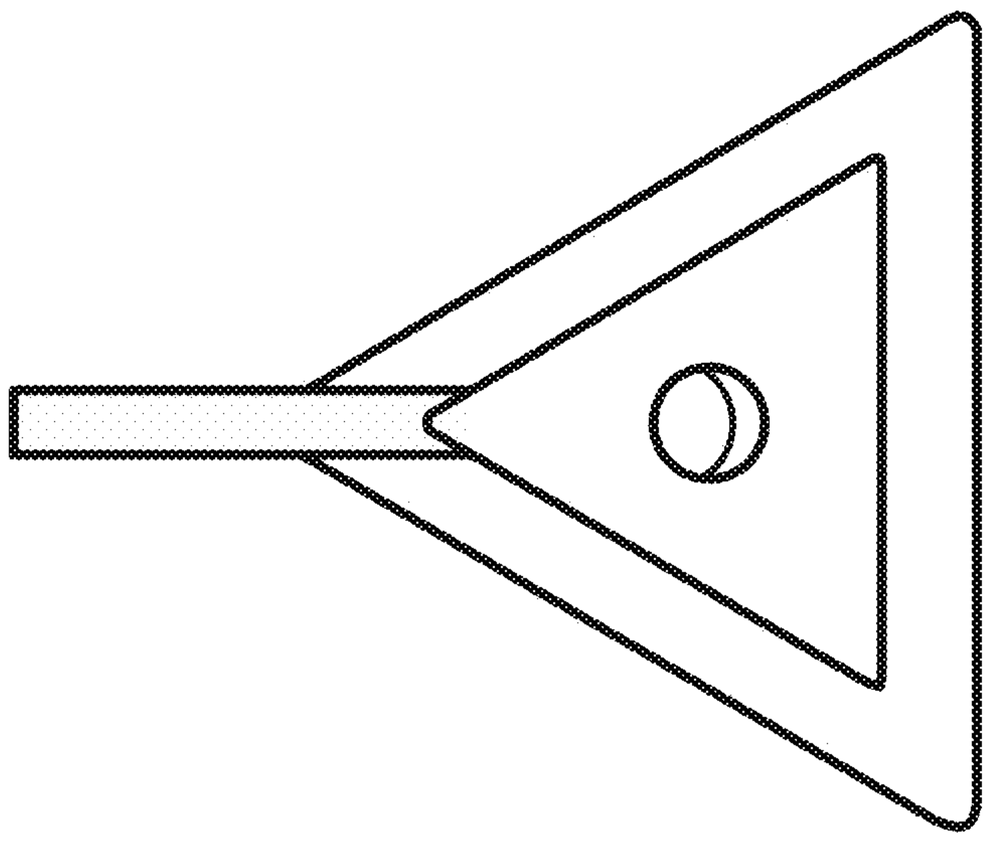

FIG. 22

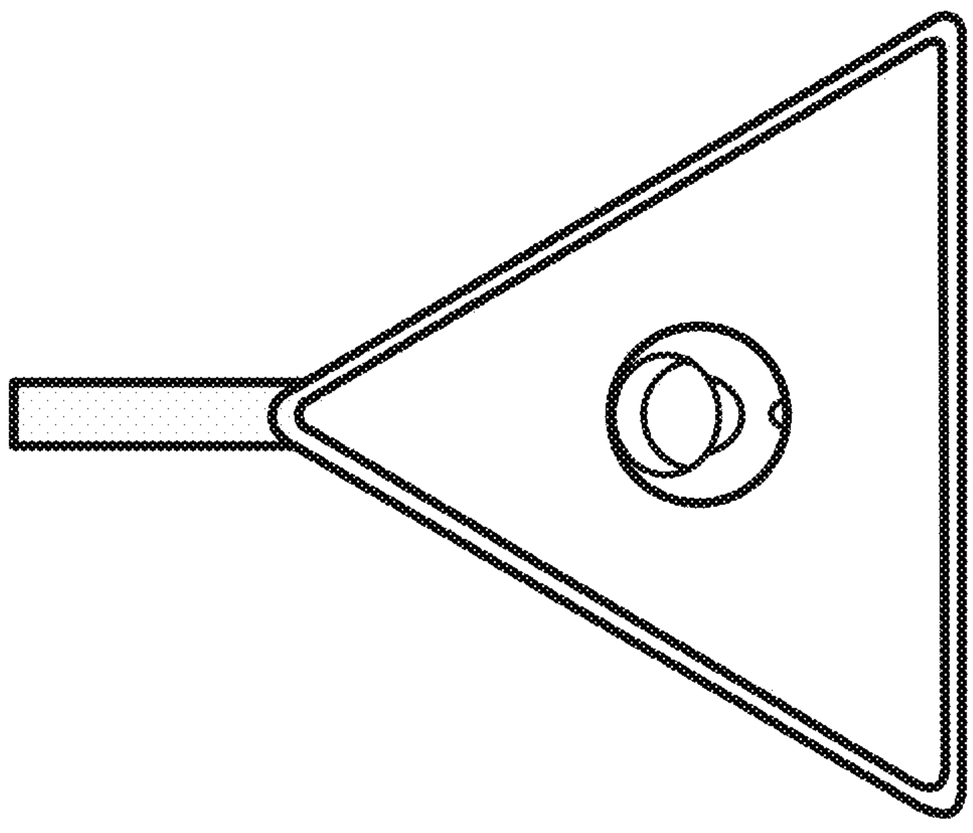

FIG. 23

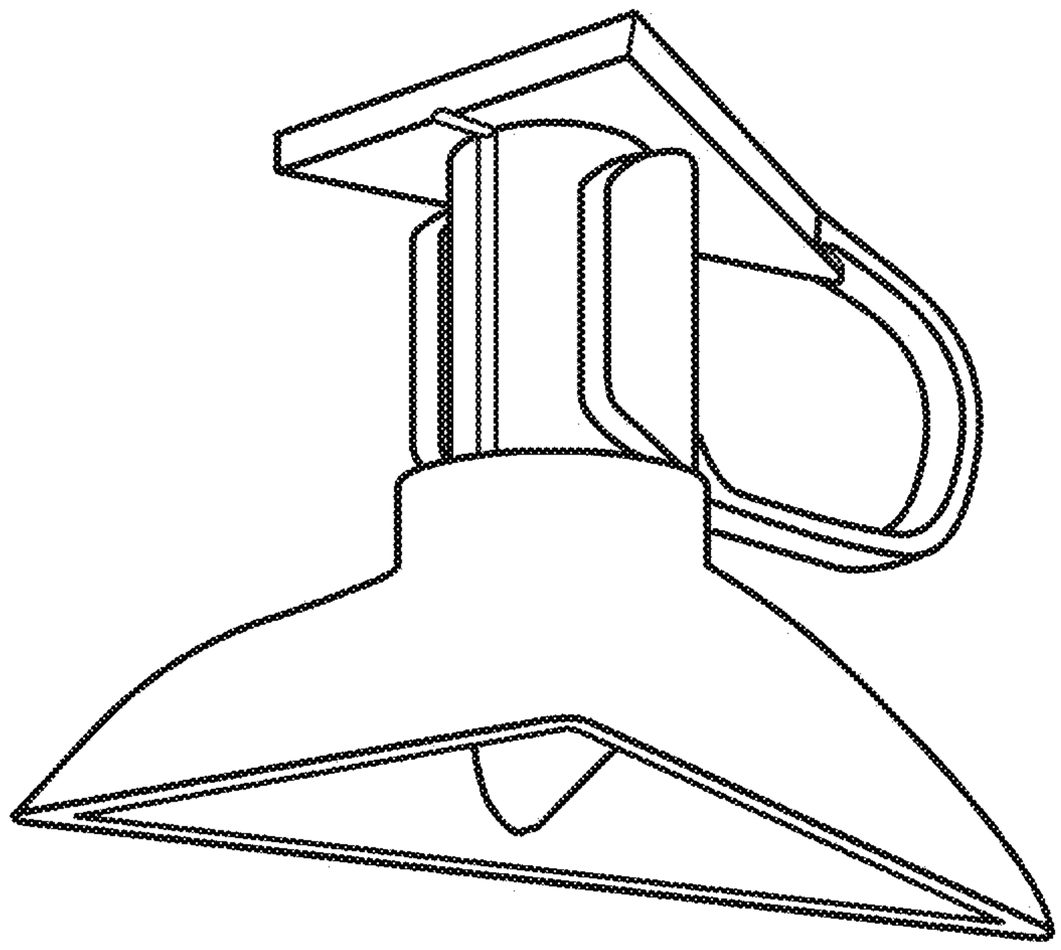

FIG. 24

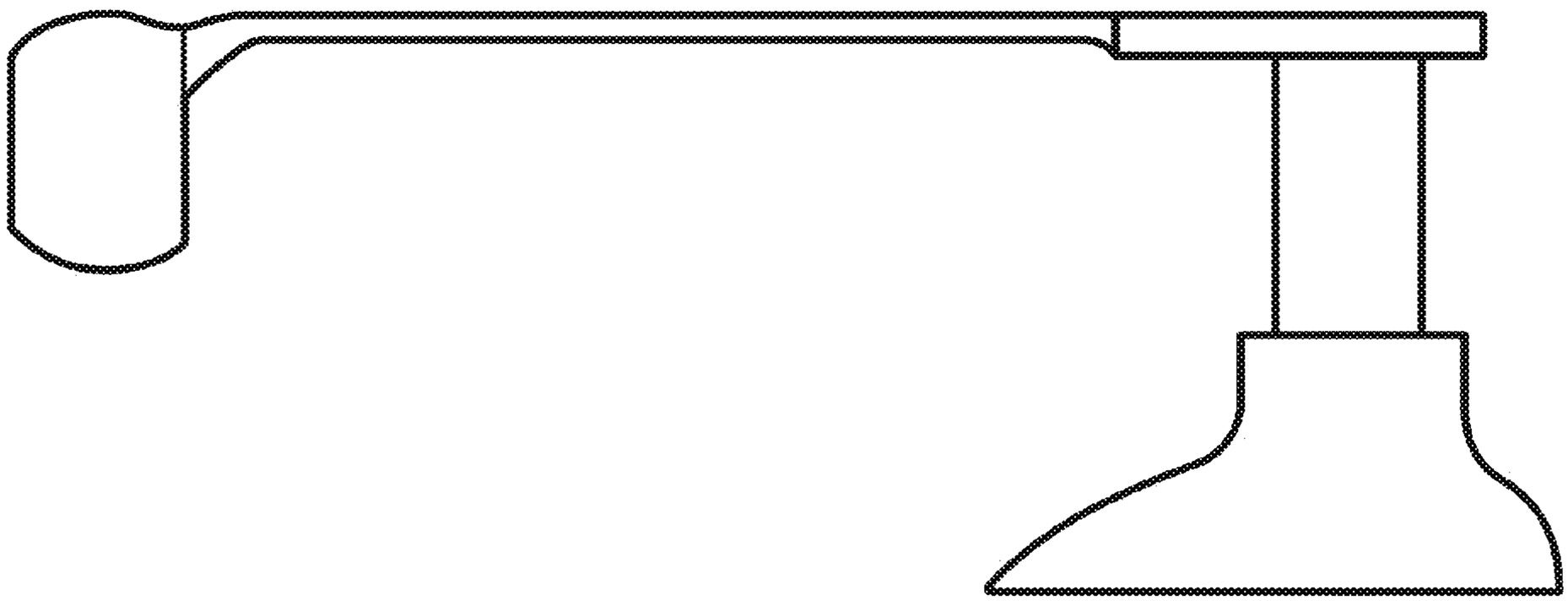

FIG. 25

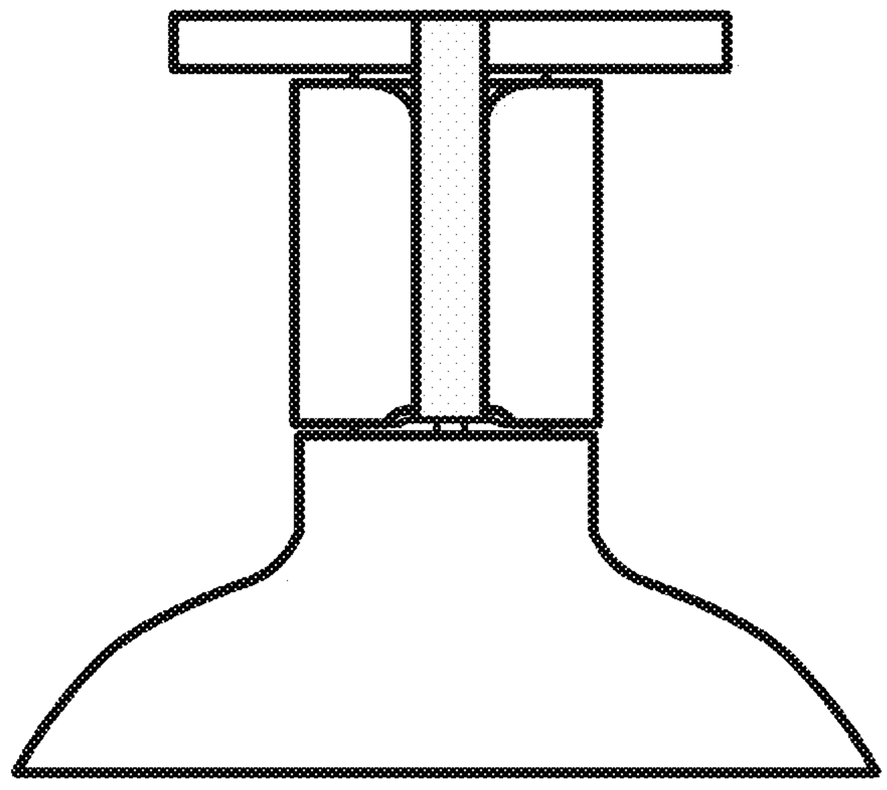

FIG. 26

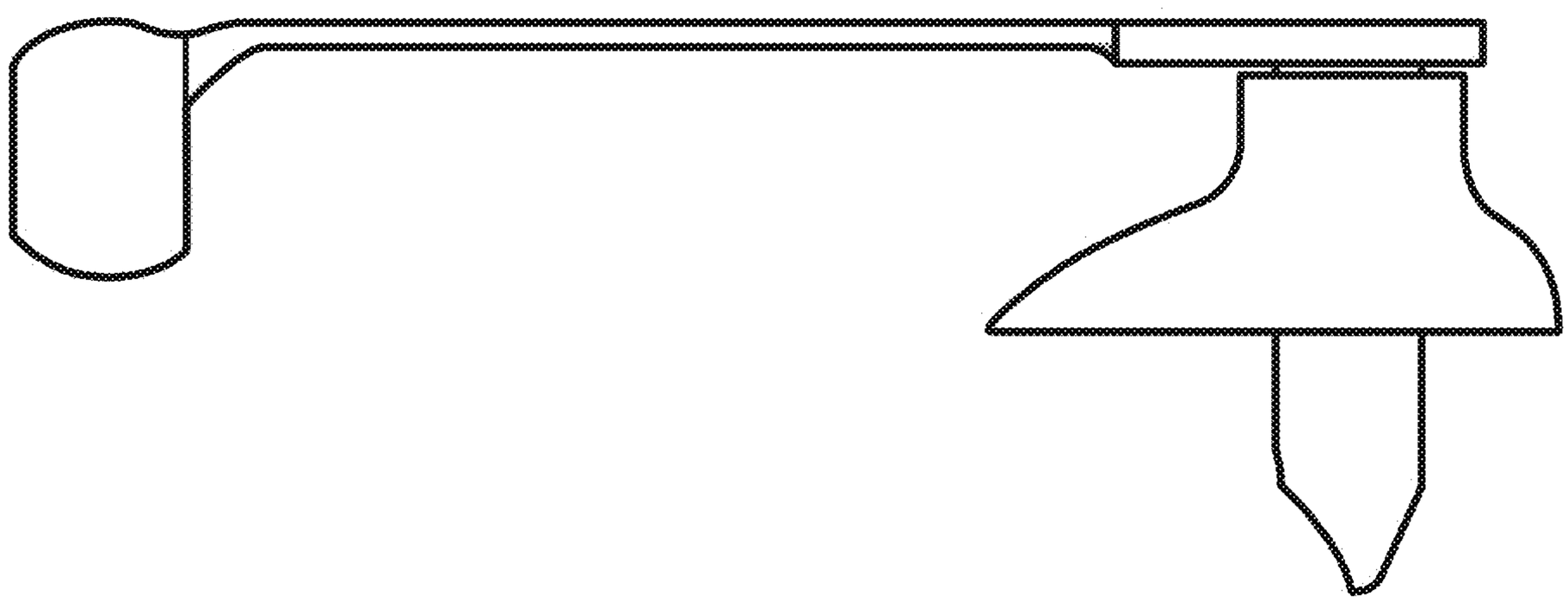

FIG. 27