



(12) **United States Design Patent** (10) **Patent No.:** **US D828,864 S**  
**Shibuya et al.** (45) **Date of Patent:** **\*\* Sep. 18, 2018**

(54) **PROJECTOR**

(71) Applicant: **Maxell, Ltd.**, Kyoto (JP)

(72) Inventors: **Shinji Shibuya**, Tokyo (JP); **Nobuyuki Kaku**, Osaka (JP); **Takatsugu Kawabata**, Osaka (JP); **Katsuyuki Watanabe**, Osaka (JP); **Tamaki Iwamiya**, Osaka (JP)

(73) Assignee: **Maxell, Ltd.**, Kyoto (JP)

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

(21) Appl. No.: **29/607,678**

(22) Filed: **Jun. 15, 2017**

(30) **Foreign Application Priority Data**

Dec. 16, 2016 (JP) ..... 2016-027346

(51) **LOC (11) Cl.** ..... **16-02**

(52) **U.S. Cl.**  
USPC ..... **D16/225; D16/232**

(58) **Field of Classification Search**  
USPC ..... D16/221, 225, 229–231, 232, 203, 208;  
D14/423; D21/514; 353/119  
(Continued)

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D216,839 S \* 3/1970 Rhoades et al. .... D16/221  
D349,713 S \* 8/1994 Hasegawa ..... D16/203  
(Continued)

**FOREIGN PATENT DOCUMENTS**

JP D1566569 \* 3/2016

**OTHER PUBLICATIONS**

Shibuya et al., Design U.S. Appl. No. 29/601,539, filed Apr. 24, 2017.

(Continued)

*Primary Examiner* — Wan Laymon

(74) *Attorney, Agent, or Firm* — Crowell & Moring LLP

(57) **CLAIM**

The ornamental design for a projector, as shown and described.

**DESCRIPTION**

This application contains subject matter related to the following co-pending U.S. design patent applications: Application Ser. No. 29/607,682, filed herewith and entitled “Projector”;

Application Ser. No. 29/601,539, filed Apr. 24, 2017 and entitled “Projector;” and Application Ser. No. 29/601,568, filed Apr. 24, 2017 and entitled “Projector.”

FIG. 1 is a front, top and right side perspective view of a projector according to the design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view thereof;

FIG. 4 is a right side elevational view thereof;

FIG. 5 is a left side elevational view thereof;

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof;

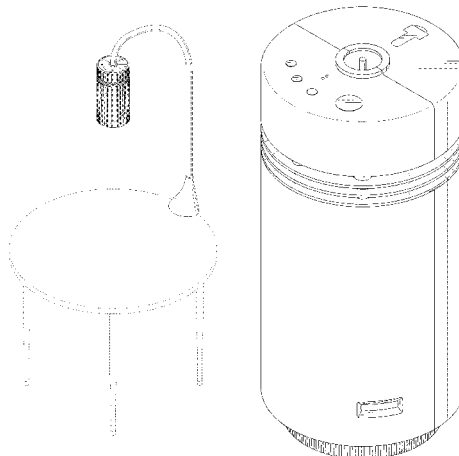
FIG. 8 is an enlarged front, top and right side perspective view of the body part thereof without the upper transparent cover, the lower transparent cover and the support member in FIG. 1 for ease of illustration;

FIG. 9 is an enlarged right side elevational view of the body part thereof without the upper transparent cover, the lower transparent cover and the support member in FIG. 4 for ease of illustration;

FIG. 10 is an enlarged left side elevational view of the body part thereof without the upper transparent cover, the lower transparent cover and the support member in FIG. 5 for ease of illustration; and,

FIG. 11 is an enlarged rear elevational view of the body part thereof without the upper transparent cover, the lower transparent cover and the support member in FIG. 3 for ease of illustration.

(Continued)



In the drawings, the broken lines depict environmental subject matter only and form no part of the claimed design.

**1 Claim, 10 Drawing Sheets**

**(58) Field of Classification Search**

CPC ..... G03B 21/145; G03B 21/14; G03B 21/12;  
G03B 21/001; G03B 21/003; G03B 21/00  
See application file for complete search history.

**(56) References Cited**

U.S. PATENT DOCUMENTS

D364,388	S *	11/1995	Miyahara	.....	D14/423
6,604,829	B2 *	8/2003	Rodriguez, Jr.	.....	G03B 21/145
					348/E5.137
D518,081	S *	3/2006	Peard	.....	D16/225
8,002,419	B2 *	8/2011	Amano	.....	G03B 21/10
					353/119
D764,563	S *	8/2016	Magi	.....	D16/221
9,491,423	B2 *	11/2016	Ko	.....	G03B 21/145
2014/0204347	A1 *	7/2014	Murphy	.....	G03B 21/145
					353/57
2016/0188123	A1 *	6/2016	Fujiune	.....	G03B 21/145
					345/156
2018/0063496	A1 *	3/2018	Kasuga	.....	G03B 21/145

OTHER PUBLICATIONS

Shibuya et al., Design U.S. Appl. No. 29/601,568, filed Apr. 24, 2017.  
Shibuya et al., Design U.S. Appl. No. 29/607,682, filed Jun. 15, 2017.

\* cited by examiner

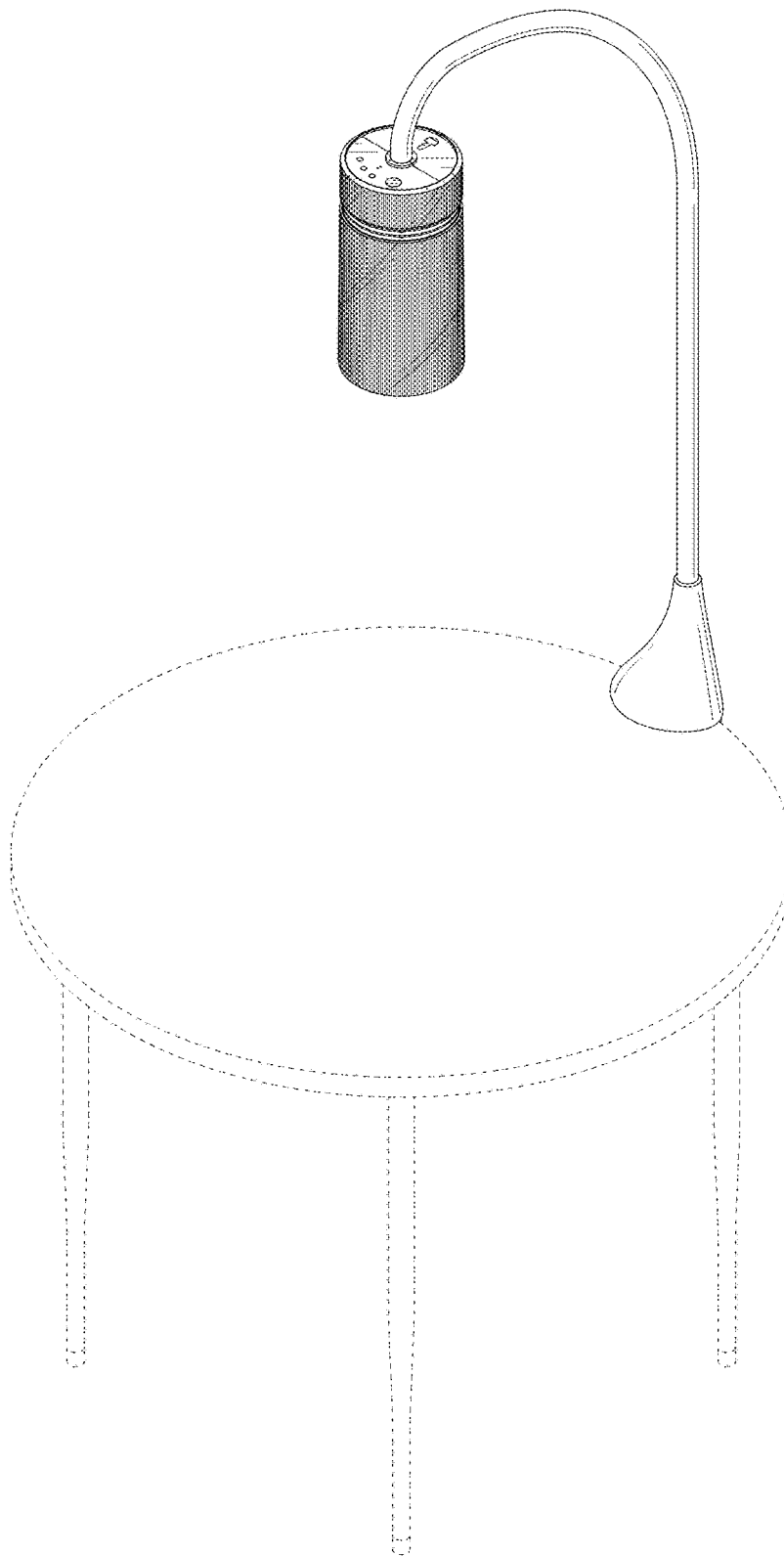


FIG. 1

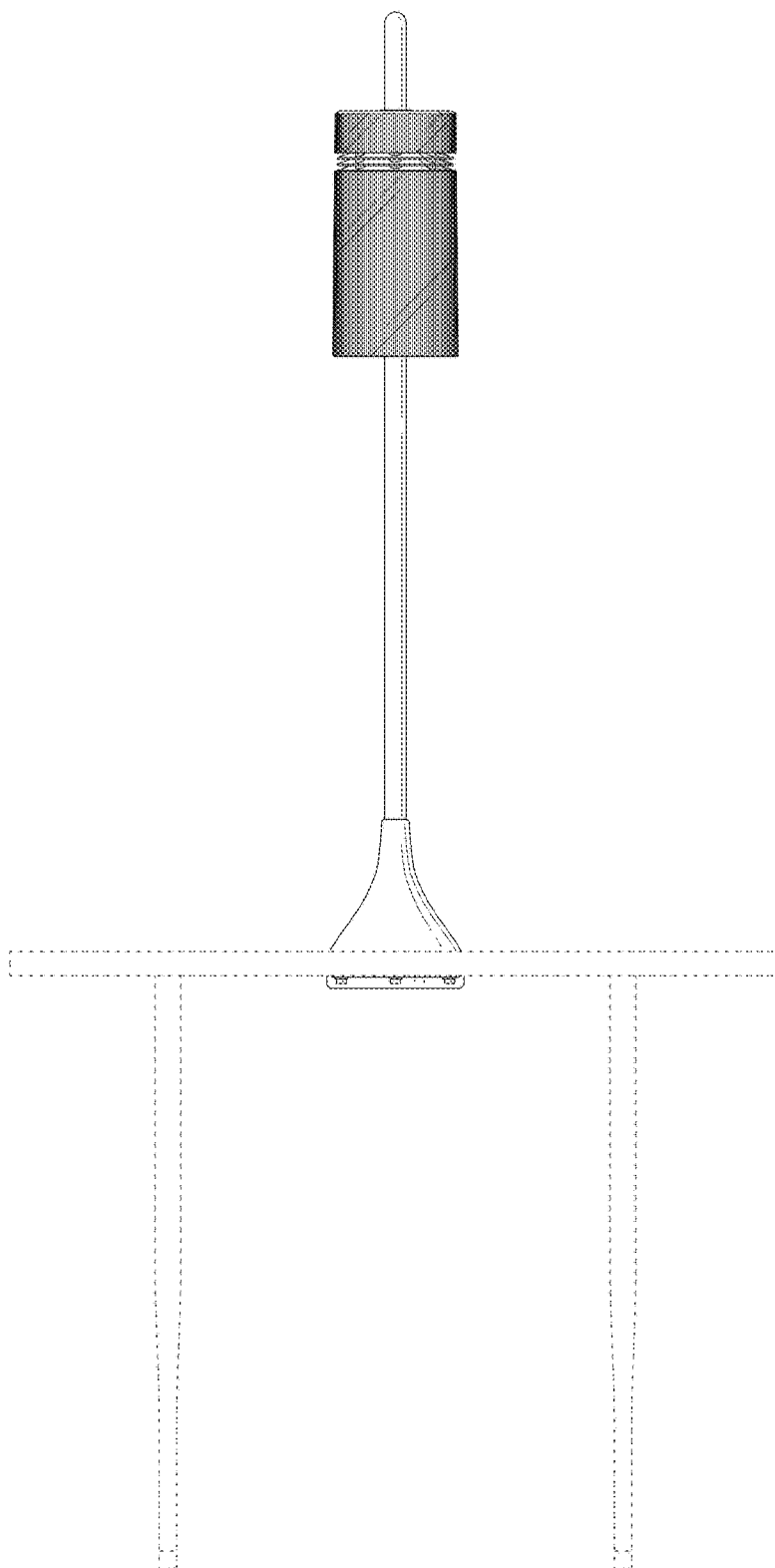
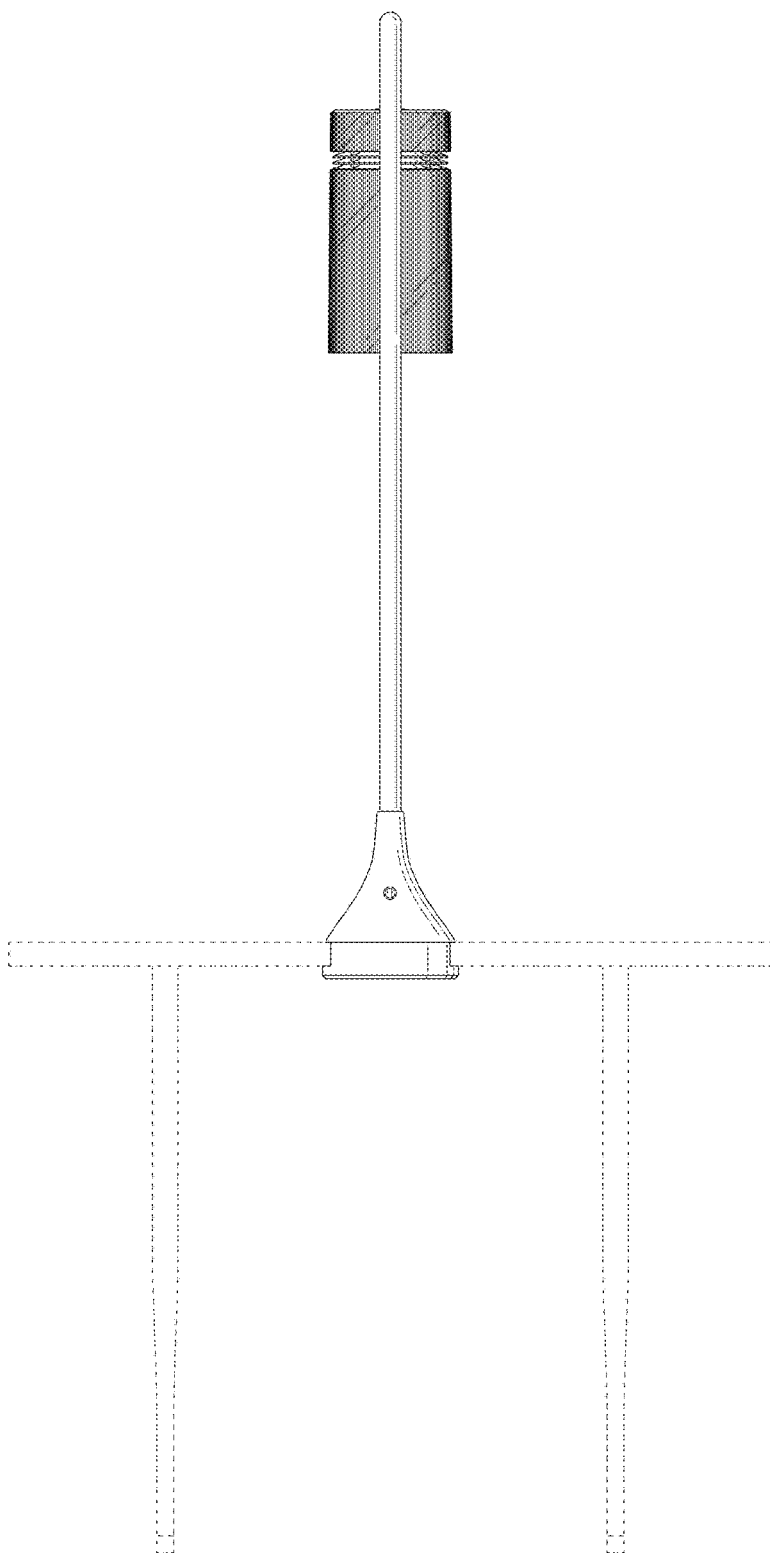


FIG. 2



*FIG. 3*

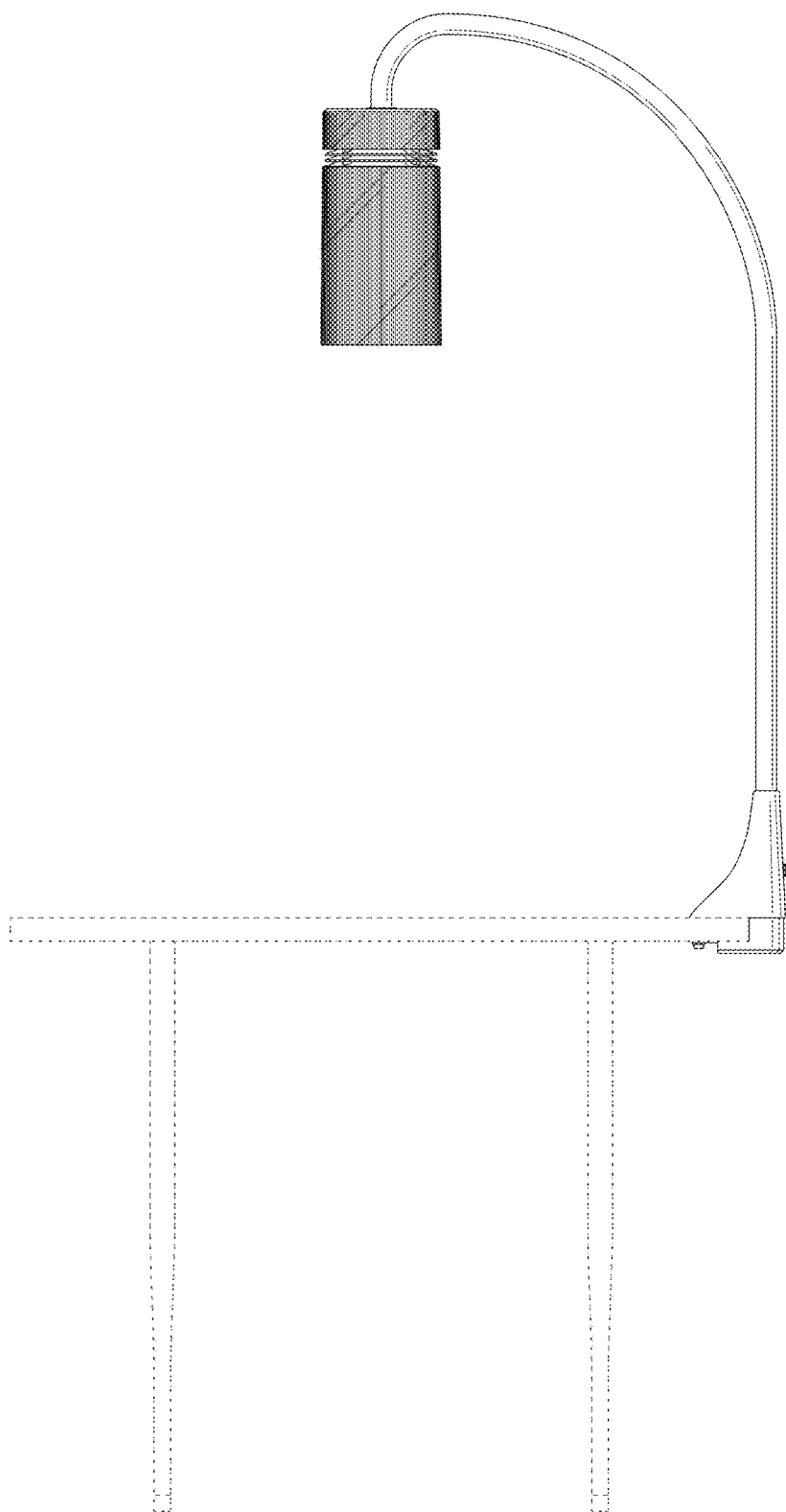


FIG. 4

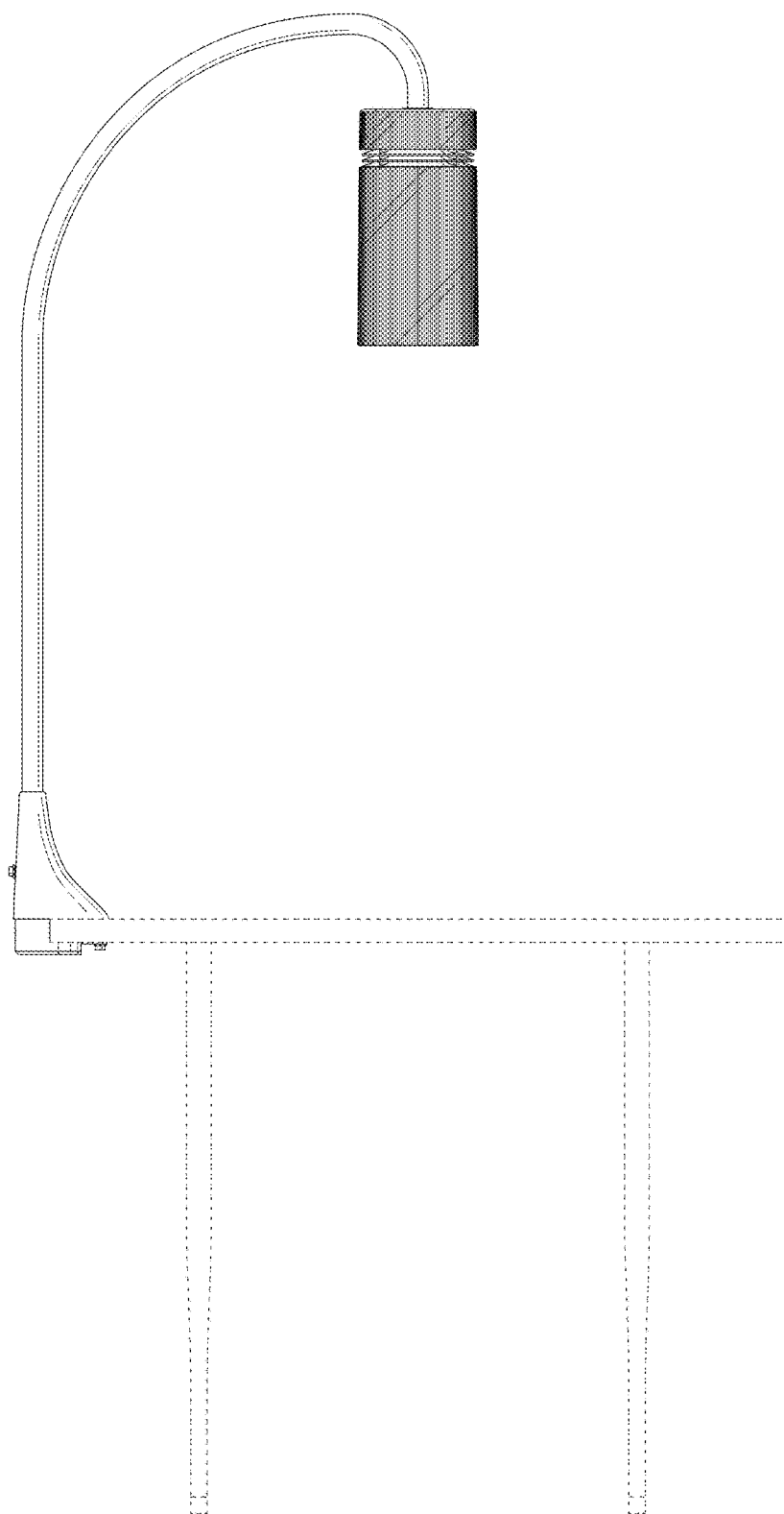
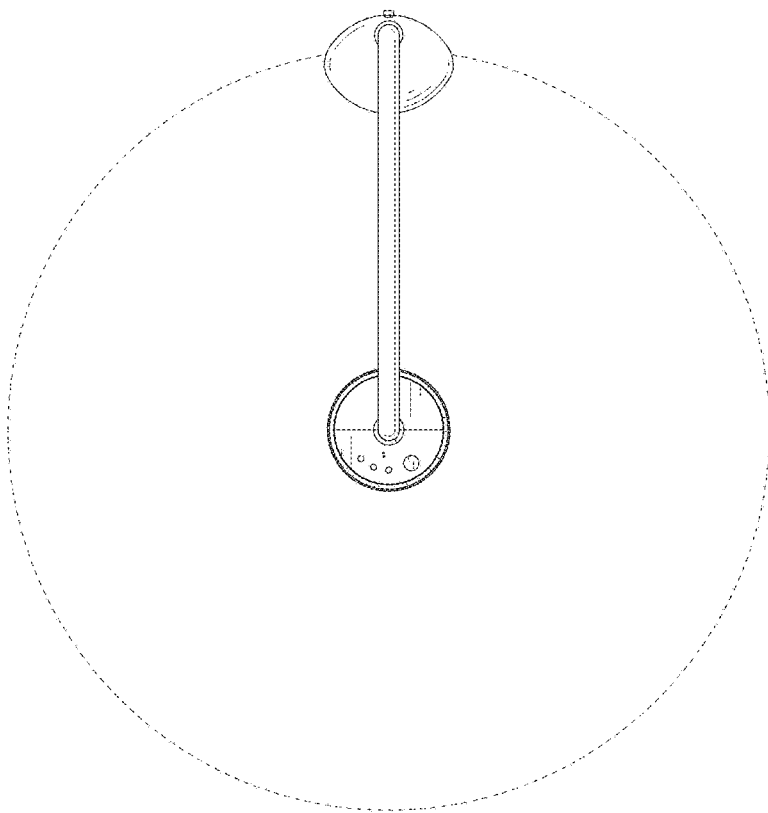
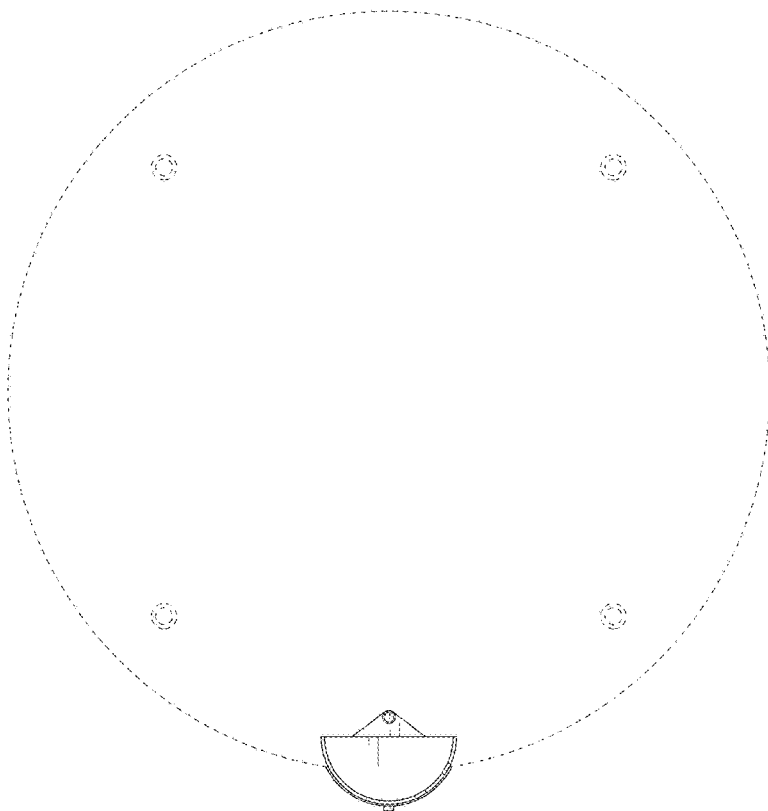


FIG. 5



*FIG. 6*



*FIG. 7*



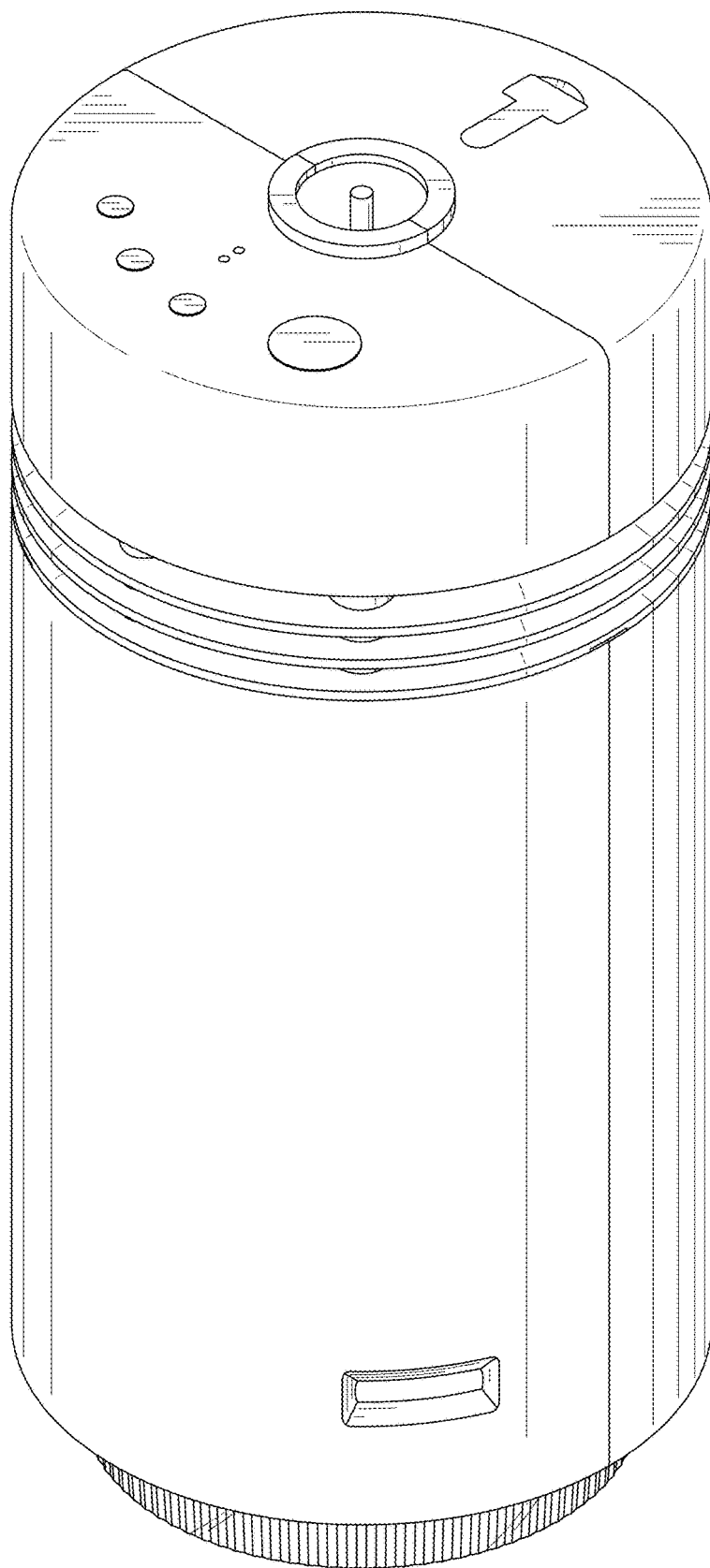


FIG. 8

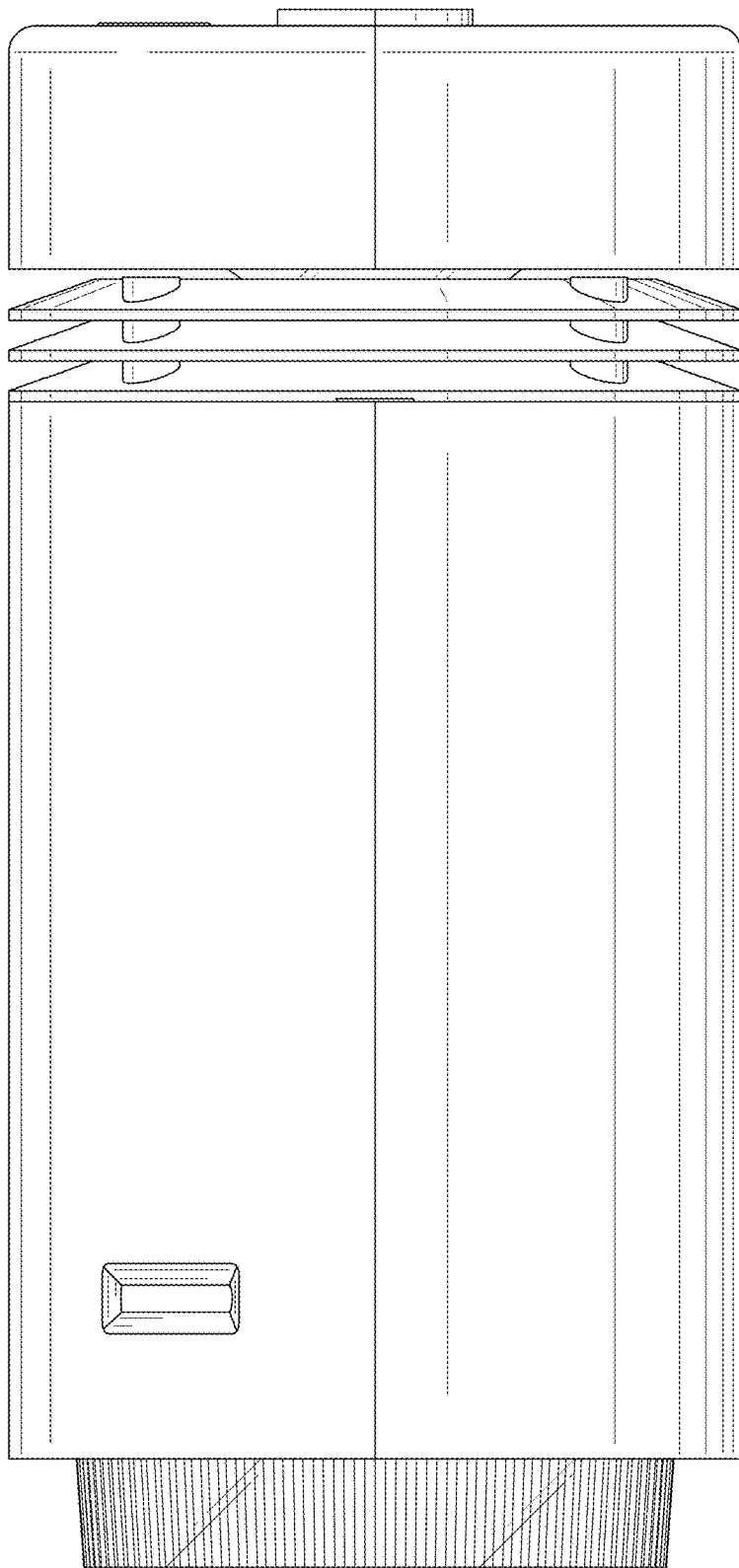


FIG. 9

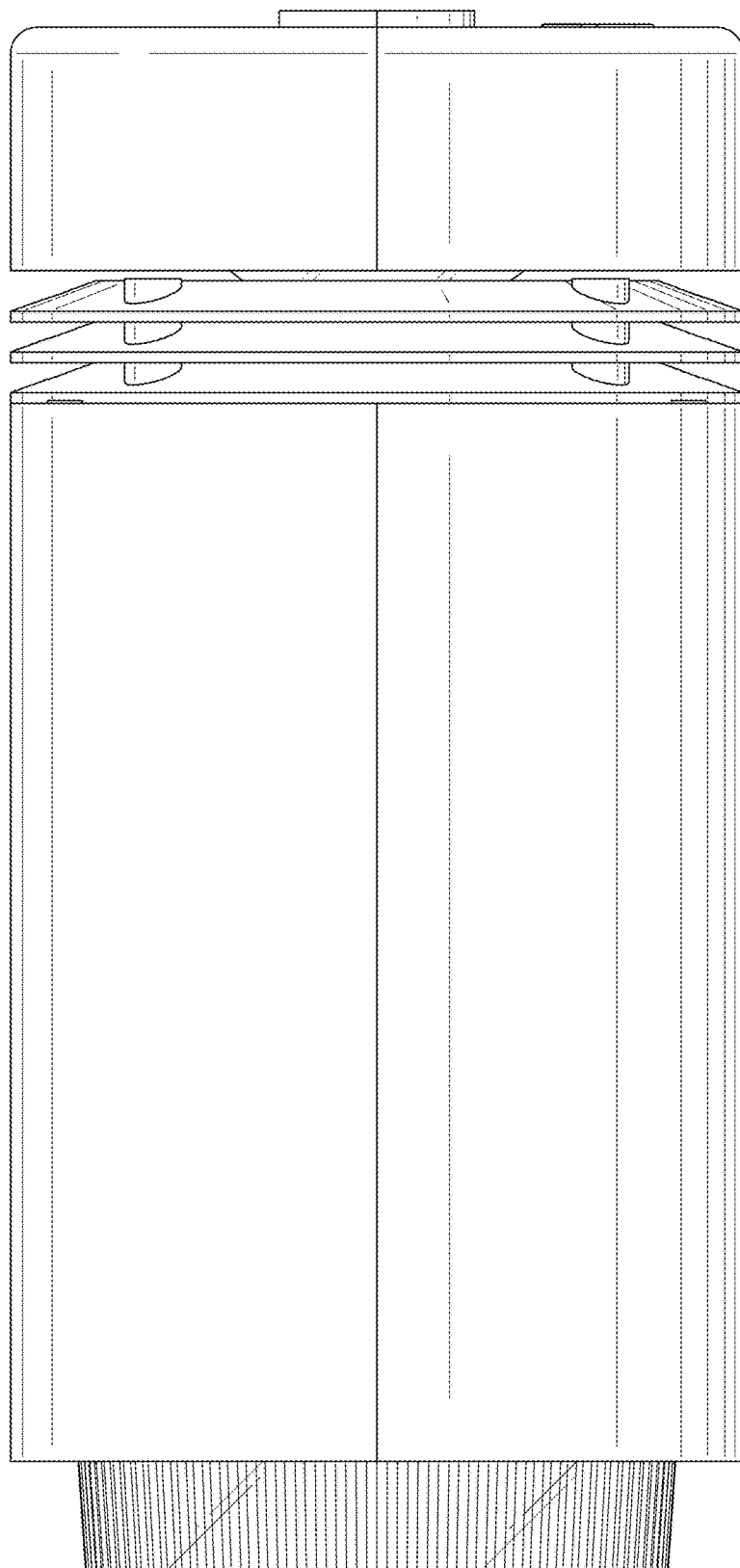


FIG. 10

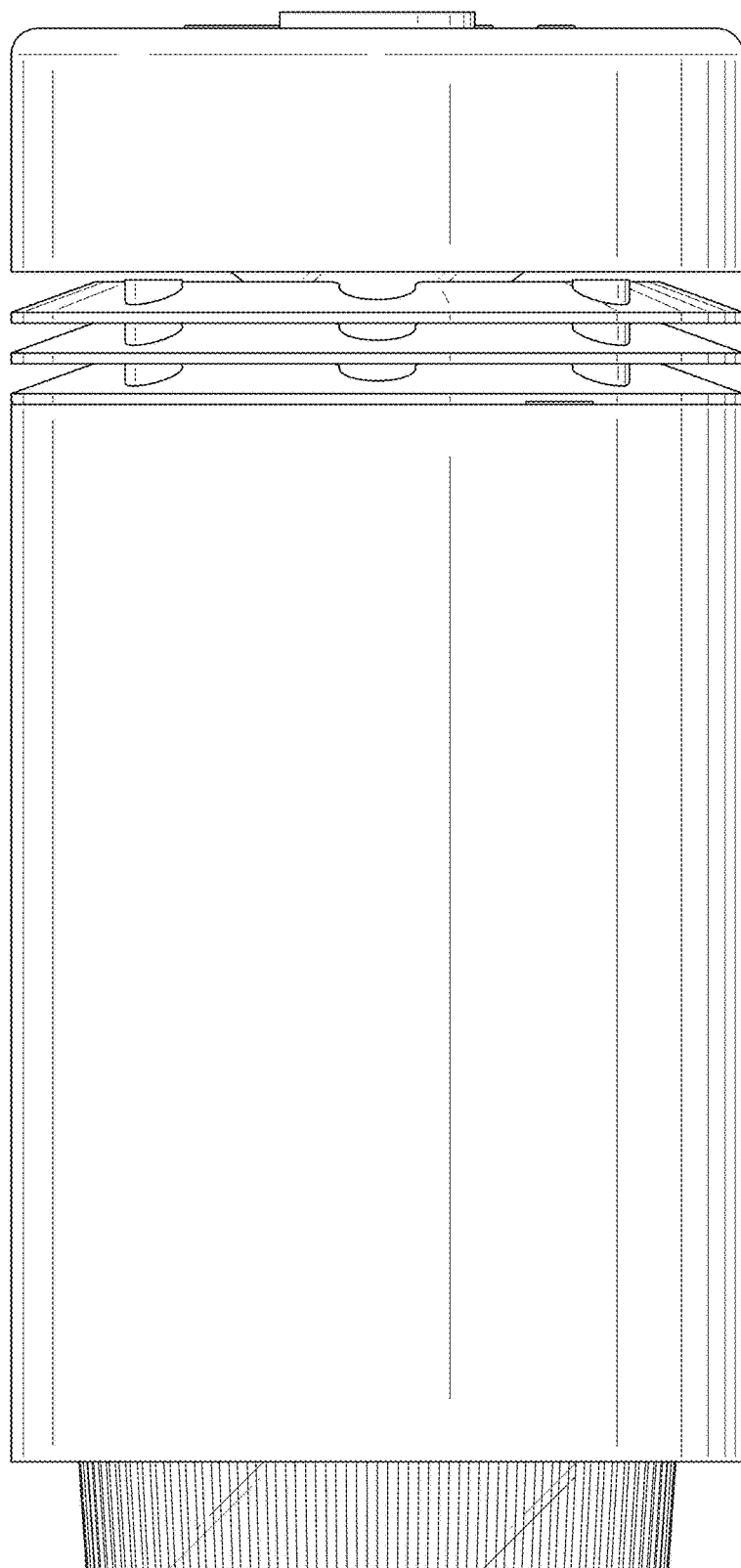


FIG. 11