



US00D749049S

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

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(45) **Date of Patent:** **\*\* Feb. 9, 2016**

(54) **CAM SWITCH**

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(73) Assignee: **ABB OY**, Helsinki (FI)

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

(21) Appl. No.: **29/531,385**

(22) Filed: **Jun. 25, 2015**

**Related U.S. Application Data**

(62) Division of application No. 29/443,144, filed on Jan. 14, 2013, now Pat. No. Des. 738,324.

(30) **Foreign Application Priority Data**

Jul. 16, 2012 (CN) ..... 2012 3 0328647

(51) **LOC (10) Cl.** ..... **13-03**

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

USPC ..... **D13/169**; D13/158

(58) **Field of Classification Search**

USPC ..... D13/158, 160, 162, 169, 171, 178

CPC ..... H01H 1/02; H01H 1/08; H01H 1/20;

H01H 3/20; H01H 3/40; H01H 3/42; H01H

9/22; H01H 9/282; H01H 19/00; H01H

19/035; H01H 19/114; H01H 19/6355;

H01H 19/64

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,335,288 A 6/1982 Ludwig et al.

4,713,498 A 12/1987 Ludwig et al.

(Continued)

Primary Examiner — Selina Sikder

(74) *Attorney, Agent, or Firm* — Buchanan, Ingersoll & Rooney PC

(57) **CLAIM**

The ornamental design for a cam switch, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a cam switch showing a first embodiment of our new design.

FIG. 2 is a front elevational view thereof.

FIG. 3 is a rear elevational view thereof.

FIG. 4 is a left side elevational view thereof.

FIG. 5 is a right side elevational view thereof.

FIG. 6 is a top plan view thereof.

FIG. 7 is a bottom plan view thereof.

FIG. 8 is a perspective view of a cam switch showing a second embodiment of our new design.

FIG. 9 is a front elevational view thereof.

FIG. 10 is a rear elevational view thereof.

FIG. 11 is a left side elevational view thereof.

FIG. 12 is a right side elevational view thereof.

FIG. 13 is a top plan view thereof.

FIG. 14 is a bottom plan view thereof.

FIG. 15 is a perspective view of a cam switch showing a third embodiment of our new design.

FIG. 16 is a front elevational view thereof.

FIG. 17 is a rear elevational view thereof.

FIG. 18 is a left side elevational view thereof.

FIG. 19 is a right side elevational view thereof.

FIG. 20 is a top plan view thereof.

FIG. 21 is a bottom plan view thereof.

FIG. 22 is a perspective view of a cam switch showing a fourth embodiment of our new design.

FIG. 23 is a front elevational view thereof.

FIG. 24 is a rear elevational view thereof.

FIG. 25 is a left side elevational view thereof.

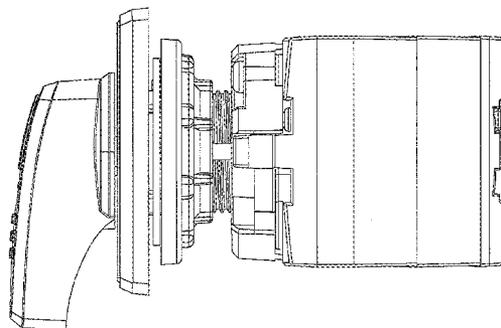
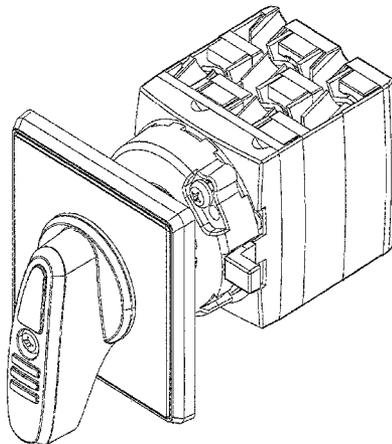
FIG. 26 is a right side elevational view thereof.

FIG. 27 is a top plan view thereof; and,

FIG. 28 is a bottom plan view thereof.

The broken line showing of the cam switch is for the purpose of illustrating environmental structure and forms no part of the claimed design.

**1 Claim, 28 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

4,851,620	A	7/1989	Schaeffer	7,368,675	B2	5/2008	Ishido et al.	
4,861,949	A	8/1989	Bortolloni et al.	7,514,645	B2	4/2009	Shahmuradyan	
D393,626	S	4/1998	Siat	7,870,810	B2	1/2011	Da Dalt et al.	
6,072,128	A	6/2000	Ansorge et al.	D658,597	S	5/2012	Kuwae et al.	
6,423,912	B1	7/2002	Arenz et al.	D738,322	S *	9/2015	Zheng et al. ....	D13/169
6,576,851	B1	6/2003	Barlian et al.	D738,323	S *	9/2015	Zheng et al. ....	D13/169
6,969,813	B1	11/2005	Winslett et al.	D738,324	S *	9/2015	Zheng et al. ....	D13/171
				2012/0080298	A1	4/2012	Lee	
				2014/0326585	A1	11/2014	Reinhart et al.	

\* cited by examiner

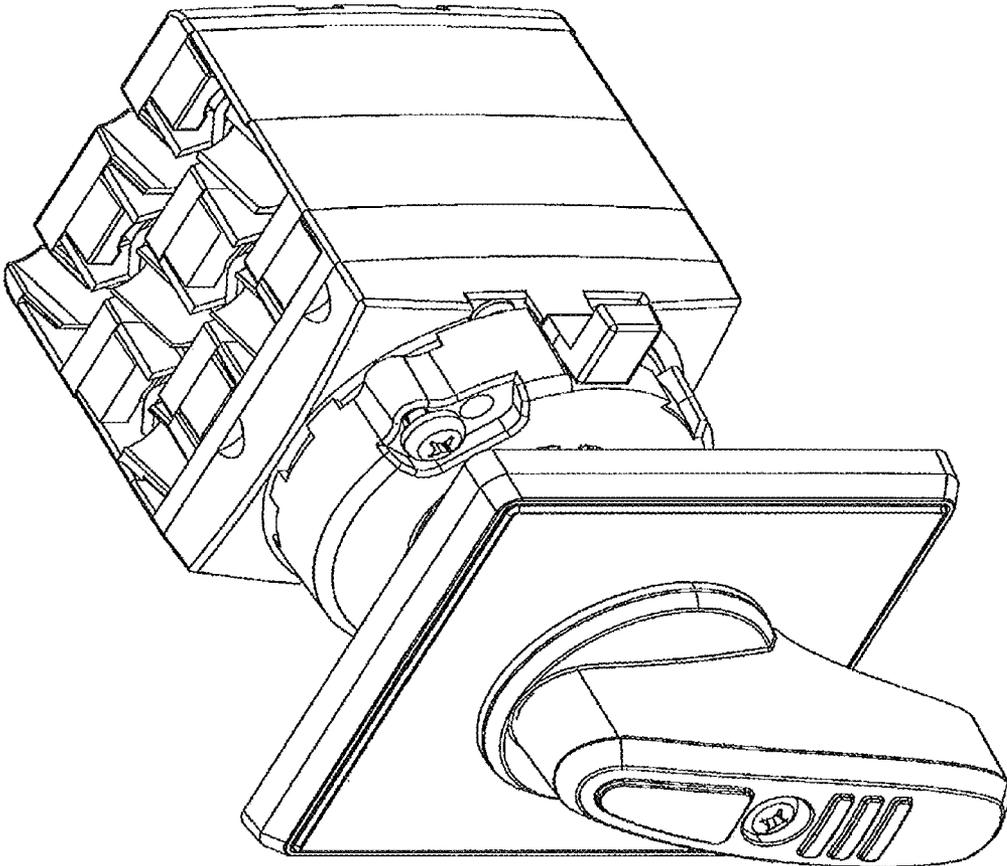


FIG. 1

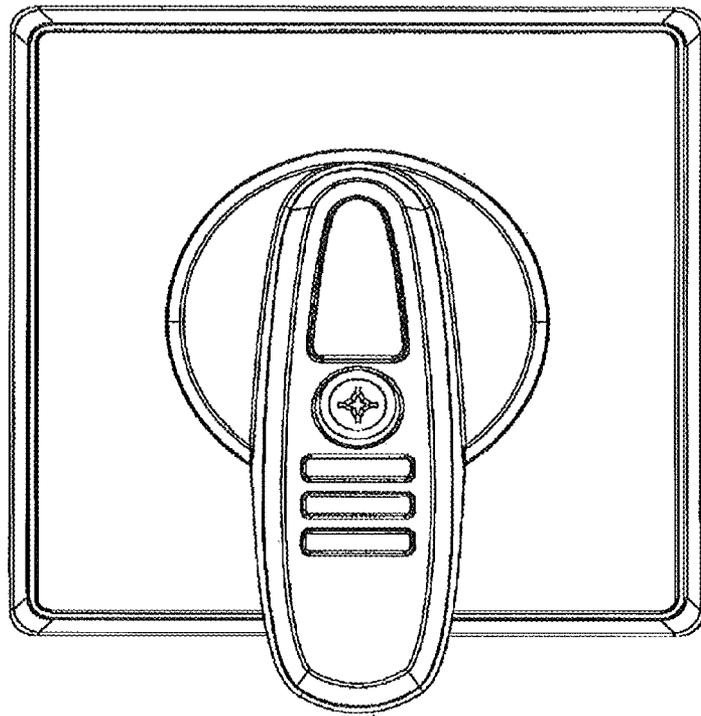


FIG. 2

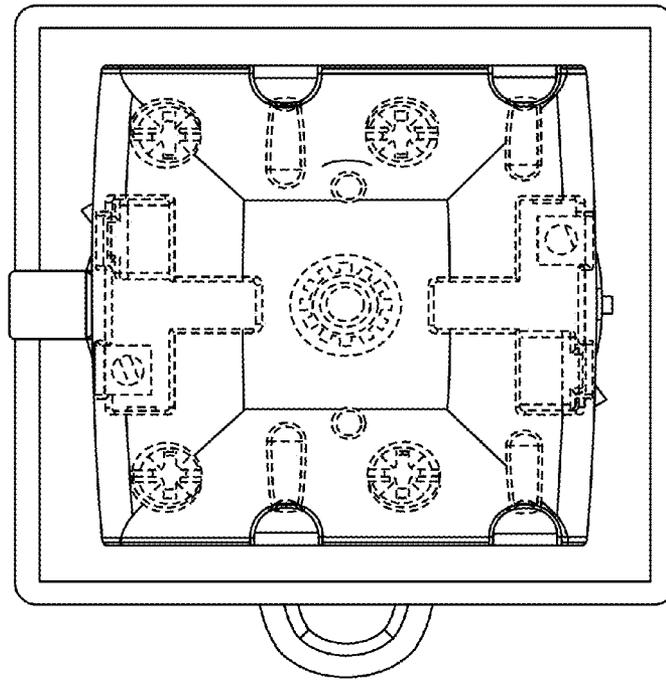


FIG. 3

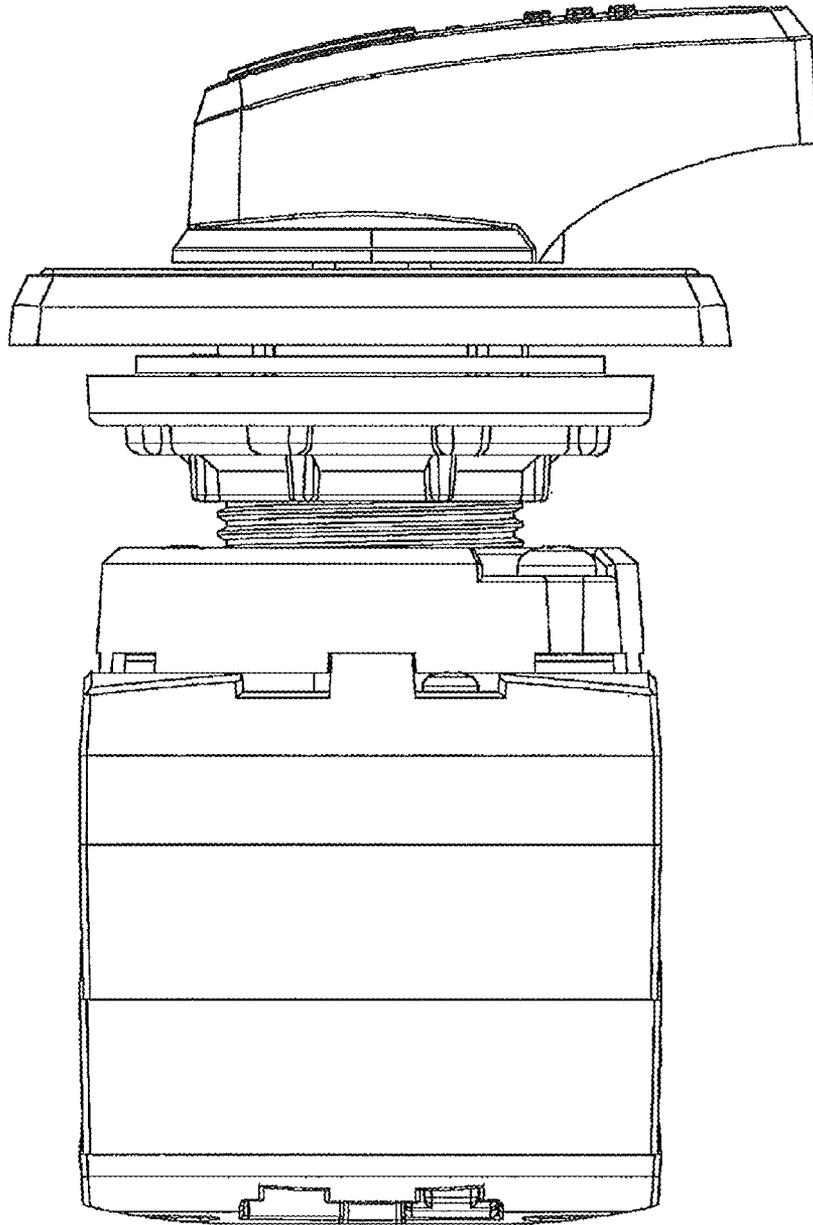


FIG. 4

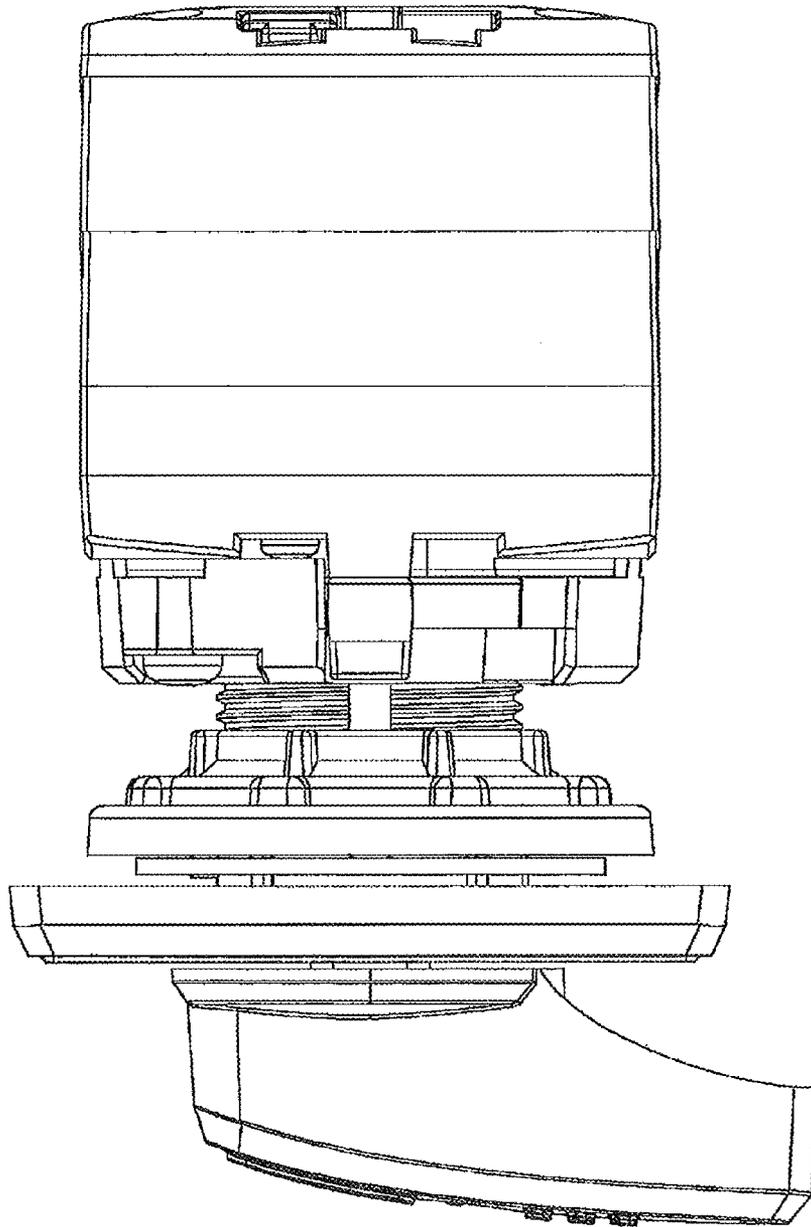


FIG. 5

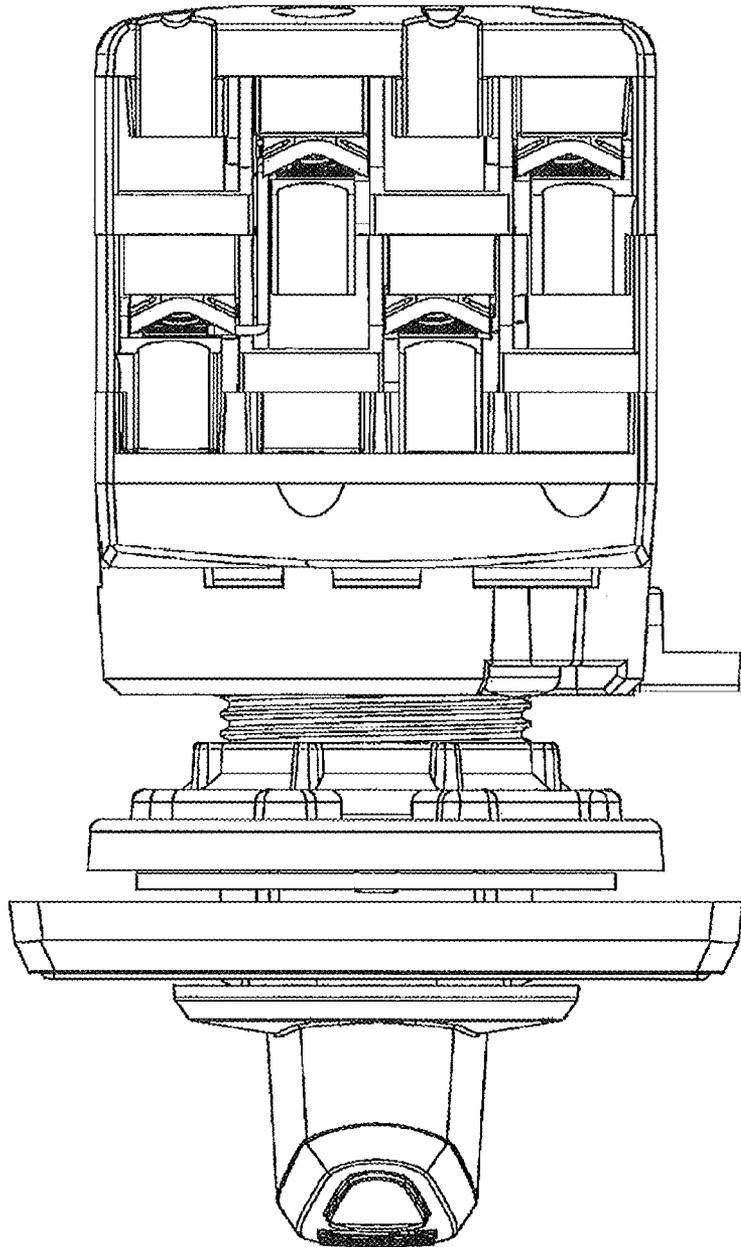


FIG. 6

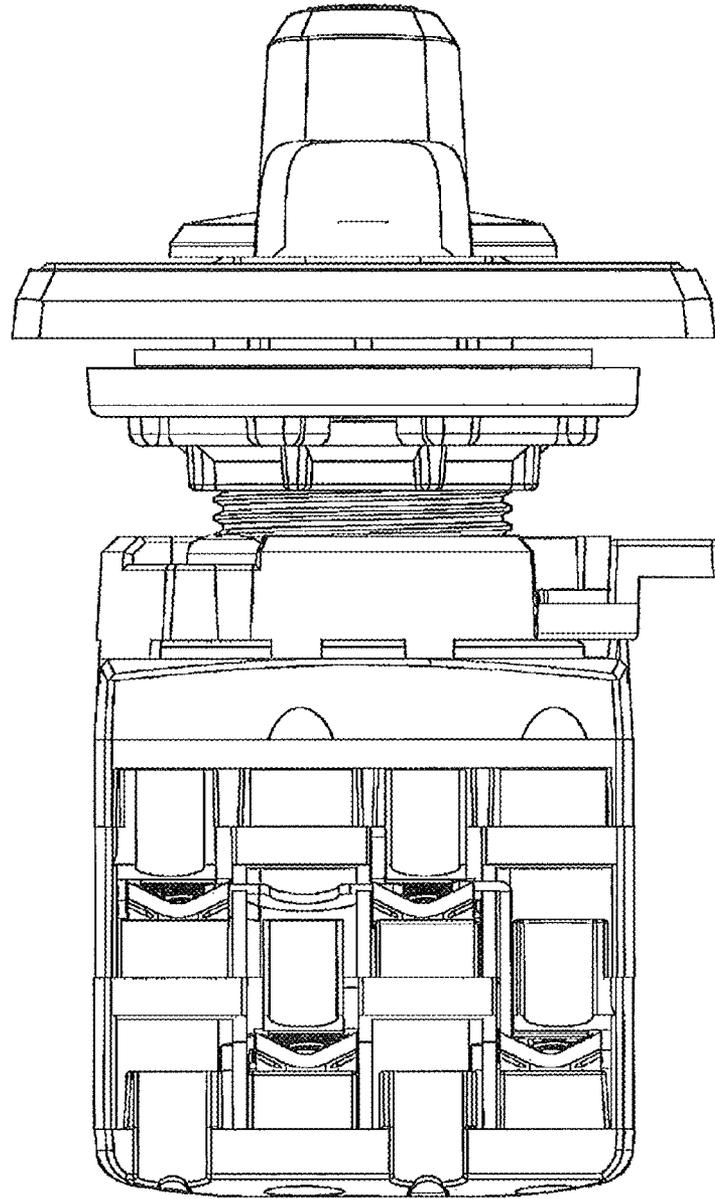


FIG. 7

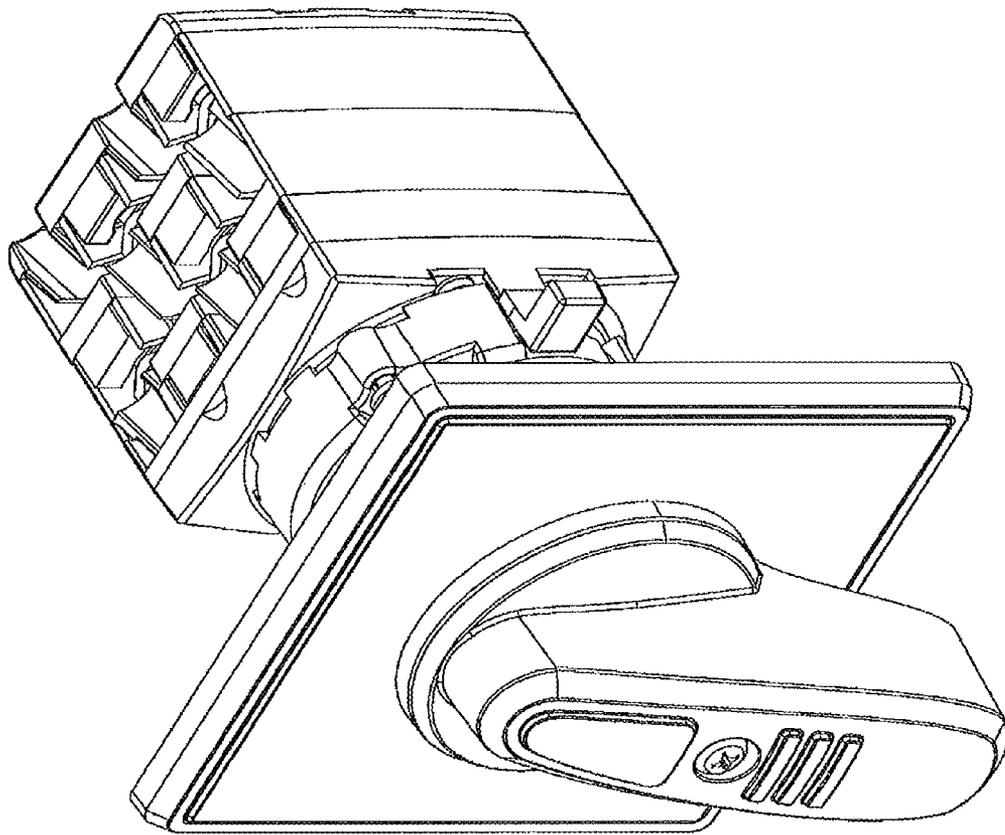


FIG. 8

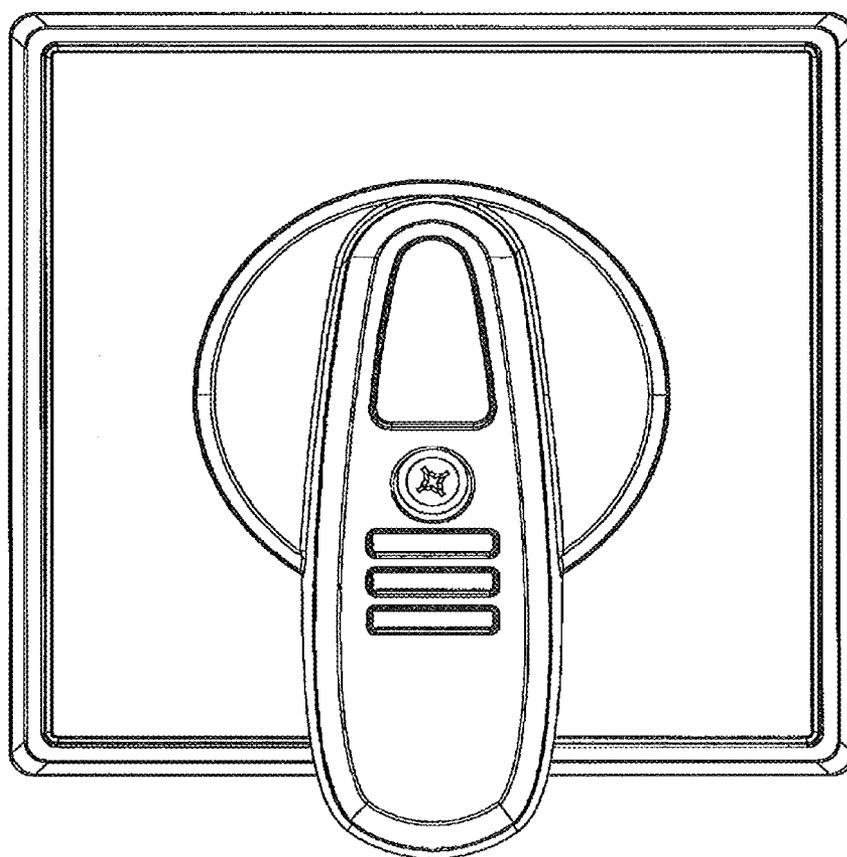


FIG. 9

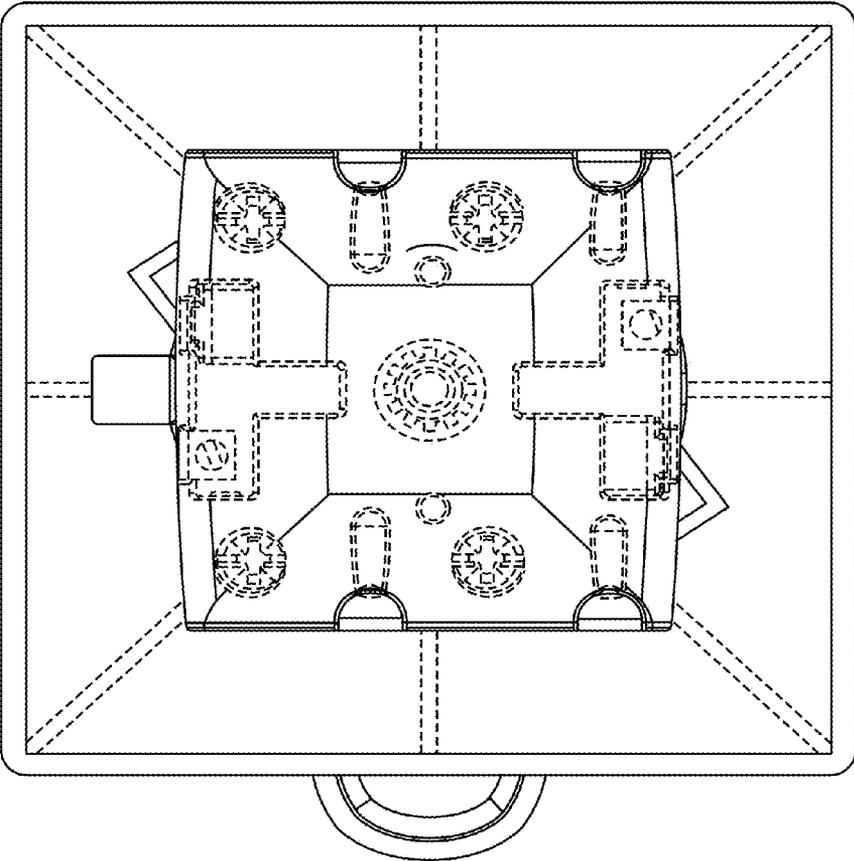


FIG. 10

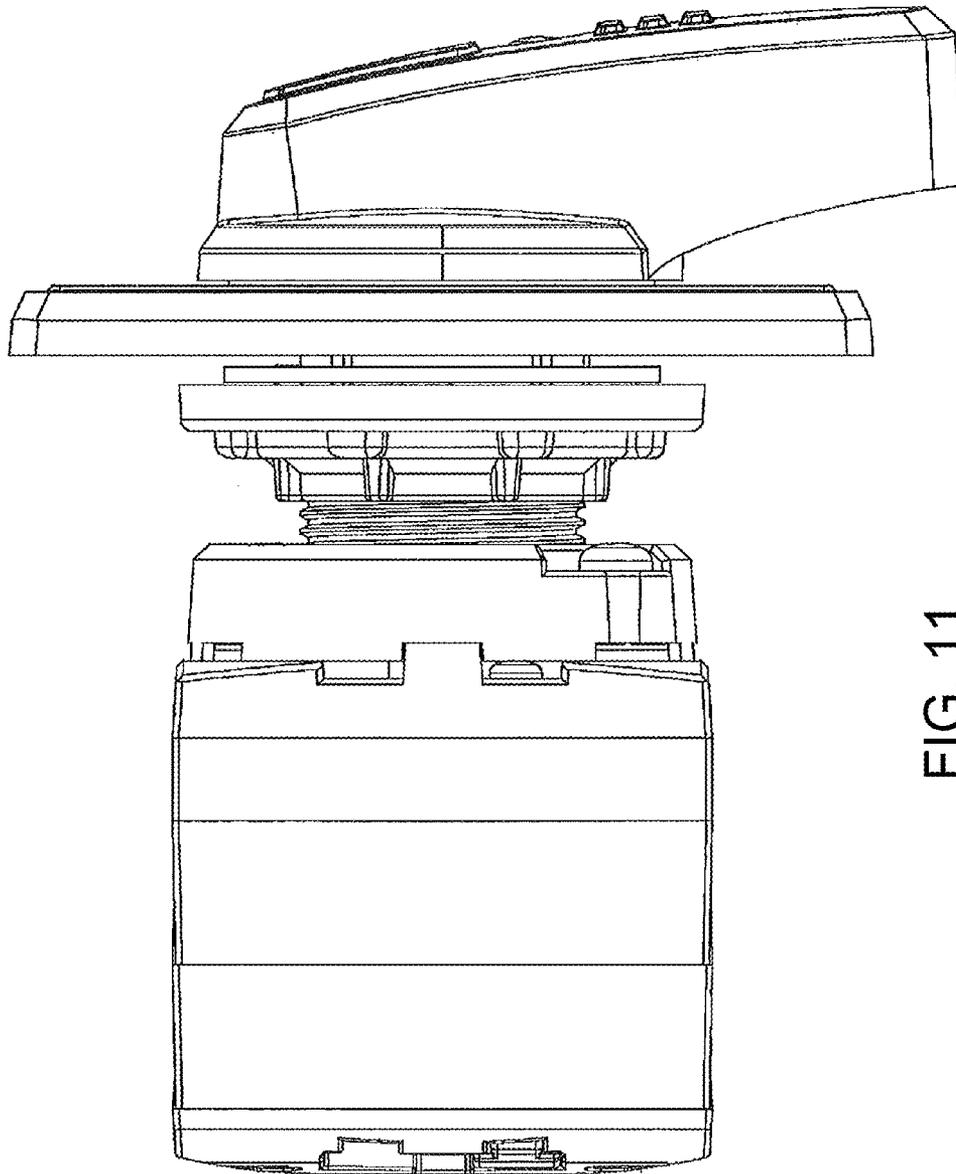


FIG. 11

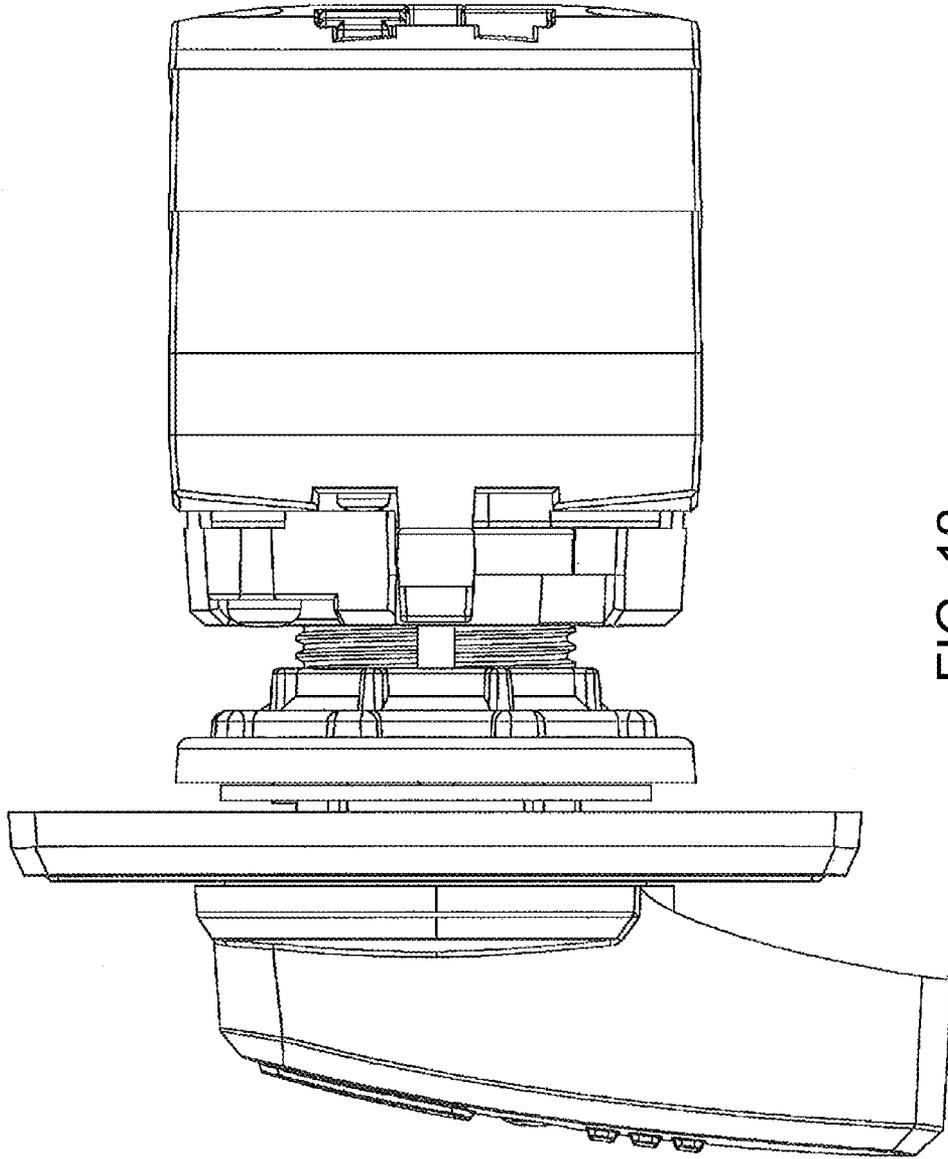


FIG. 12

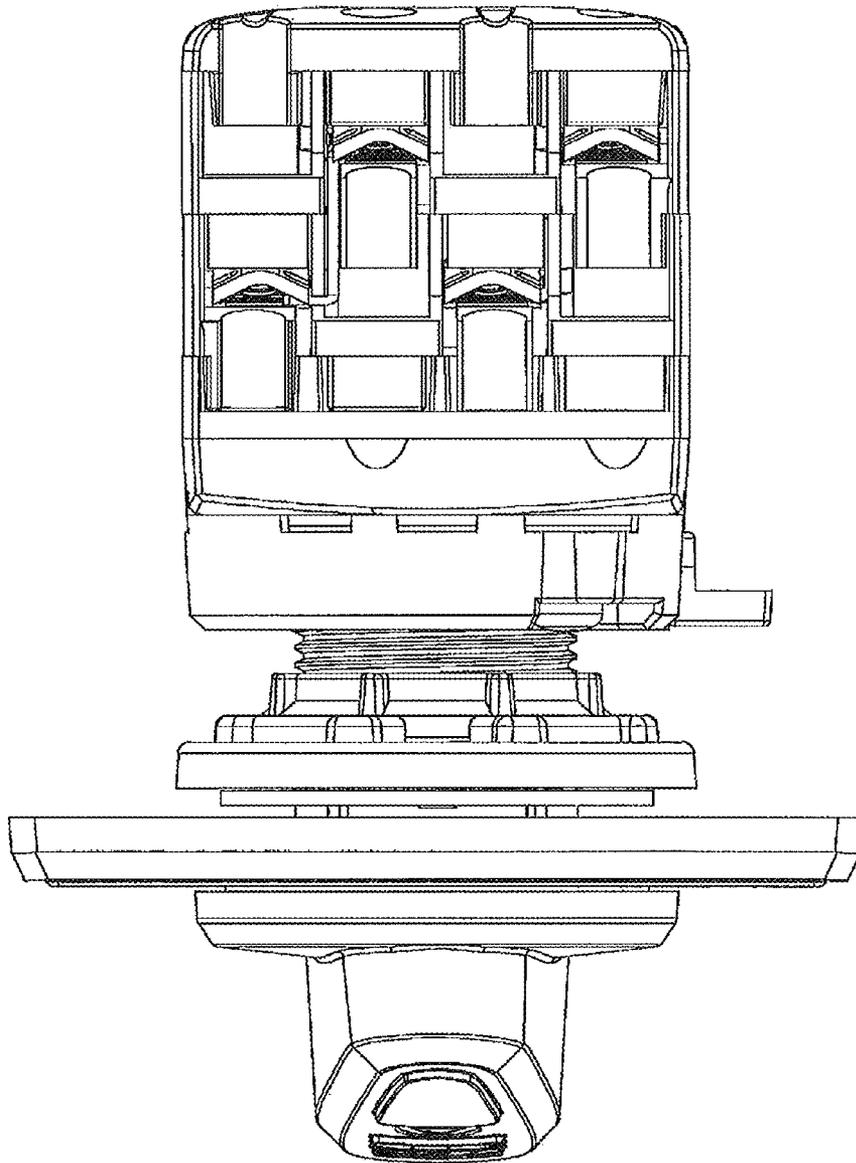


FIG. 13

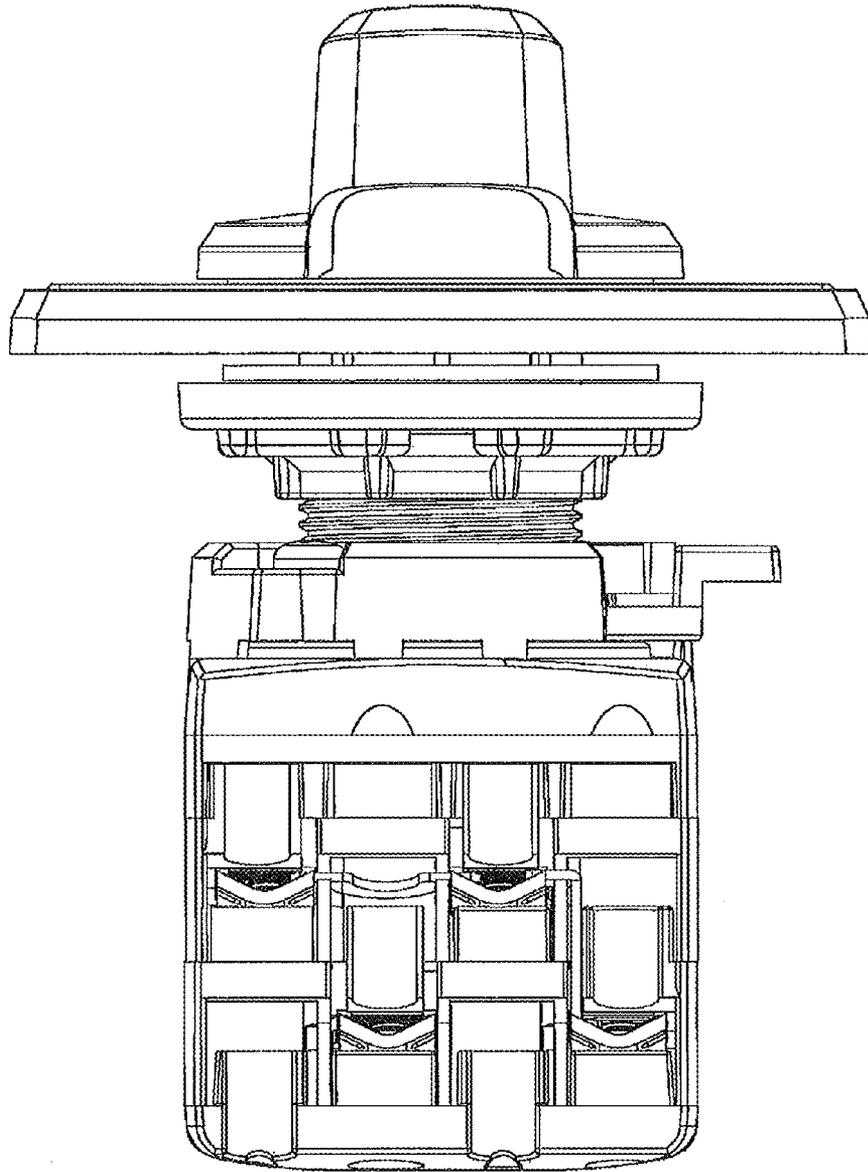


FIG. 14

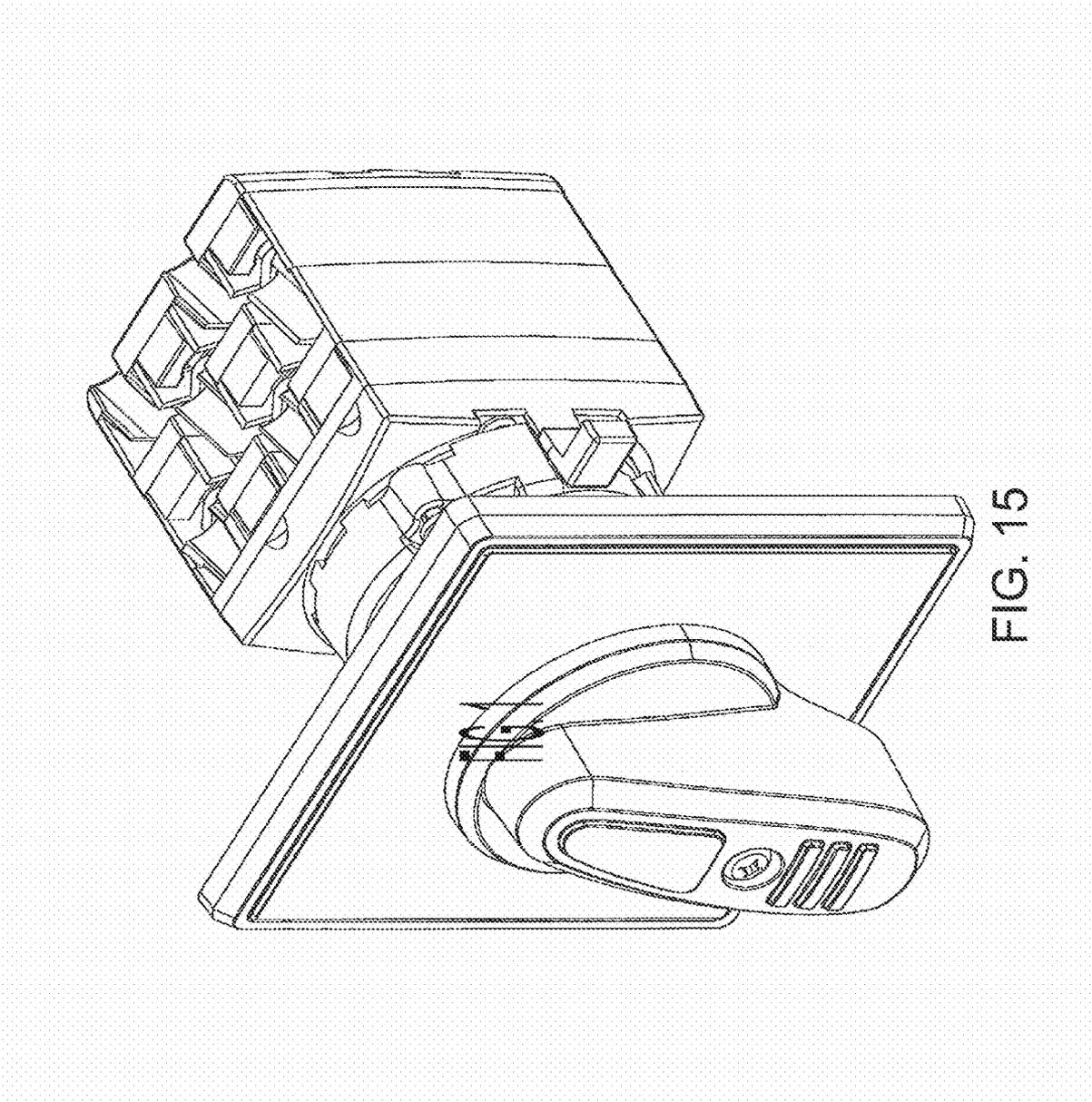


FIG. 15

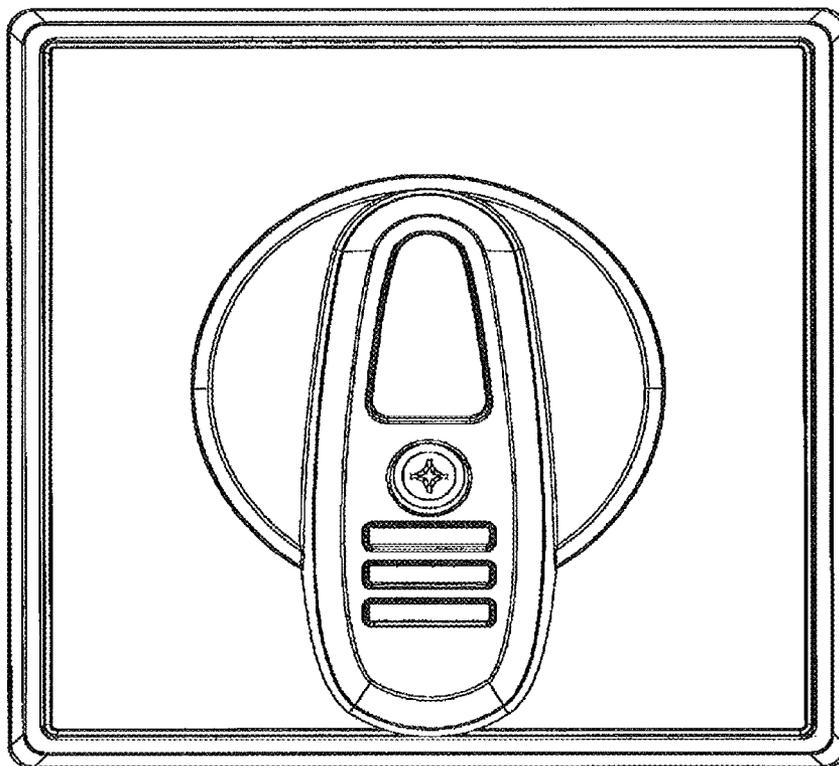


FIG. 16

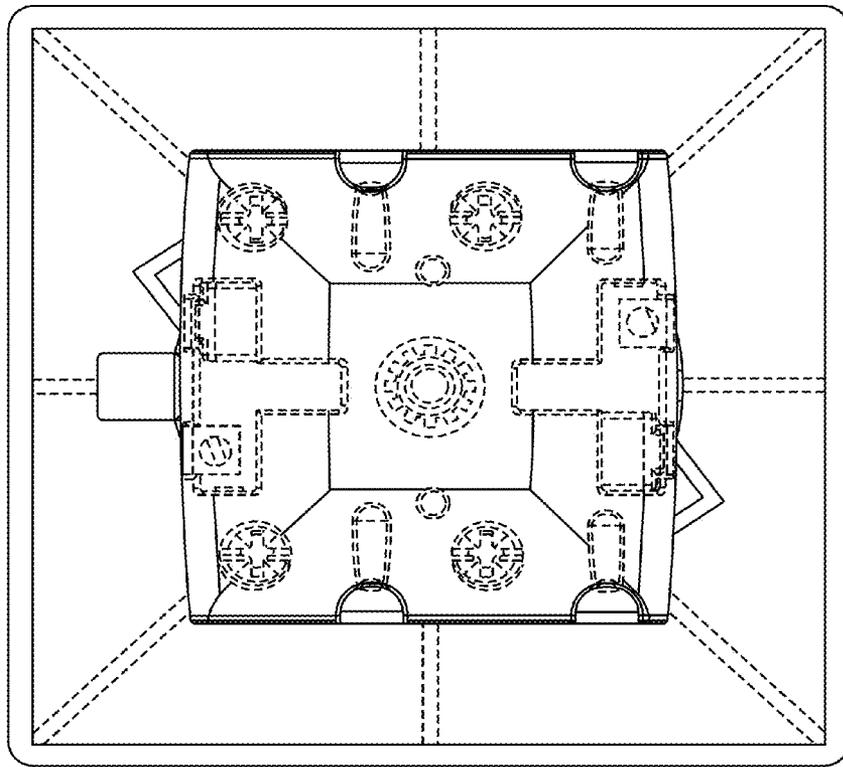


FIG. 17

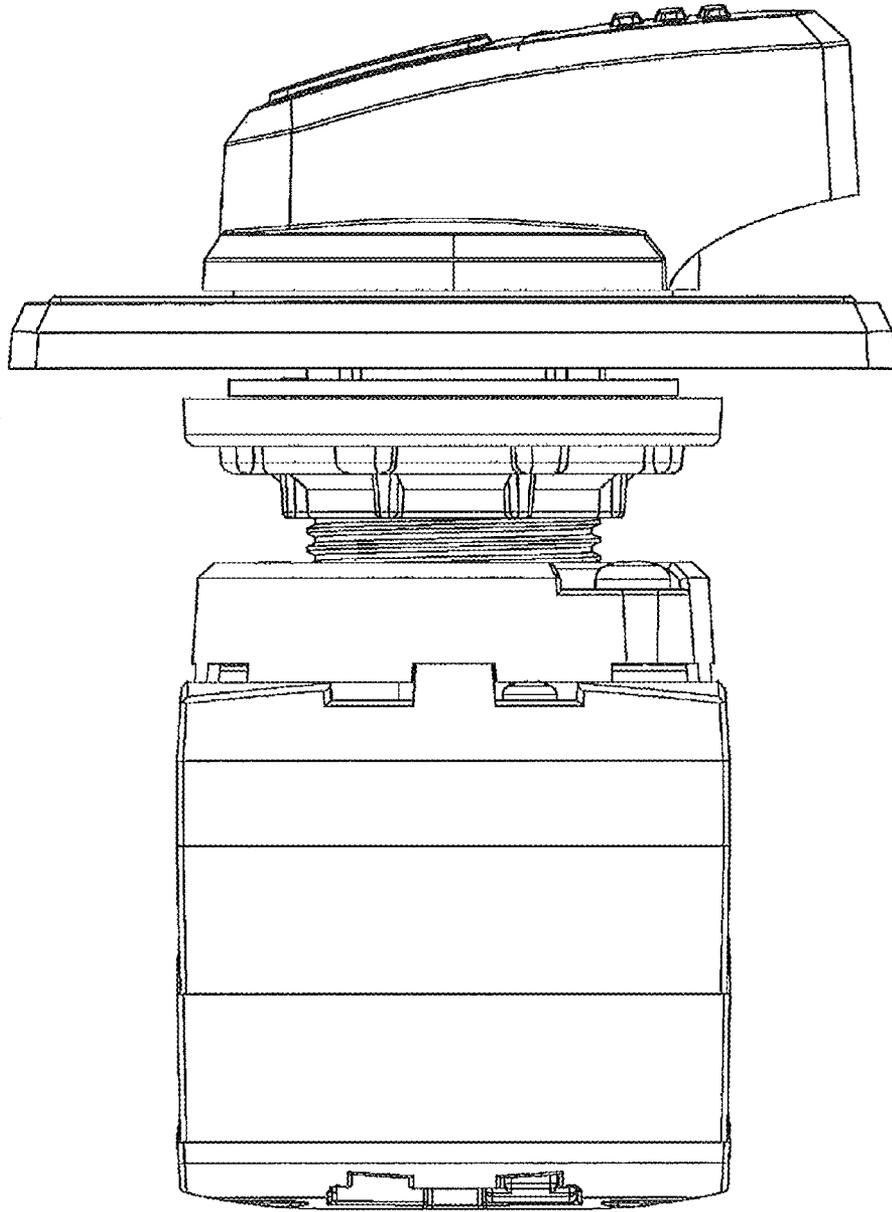


FIG. 18

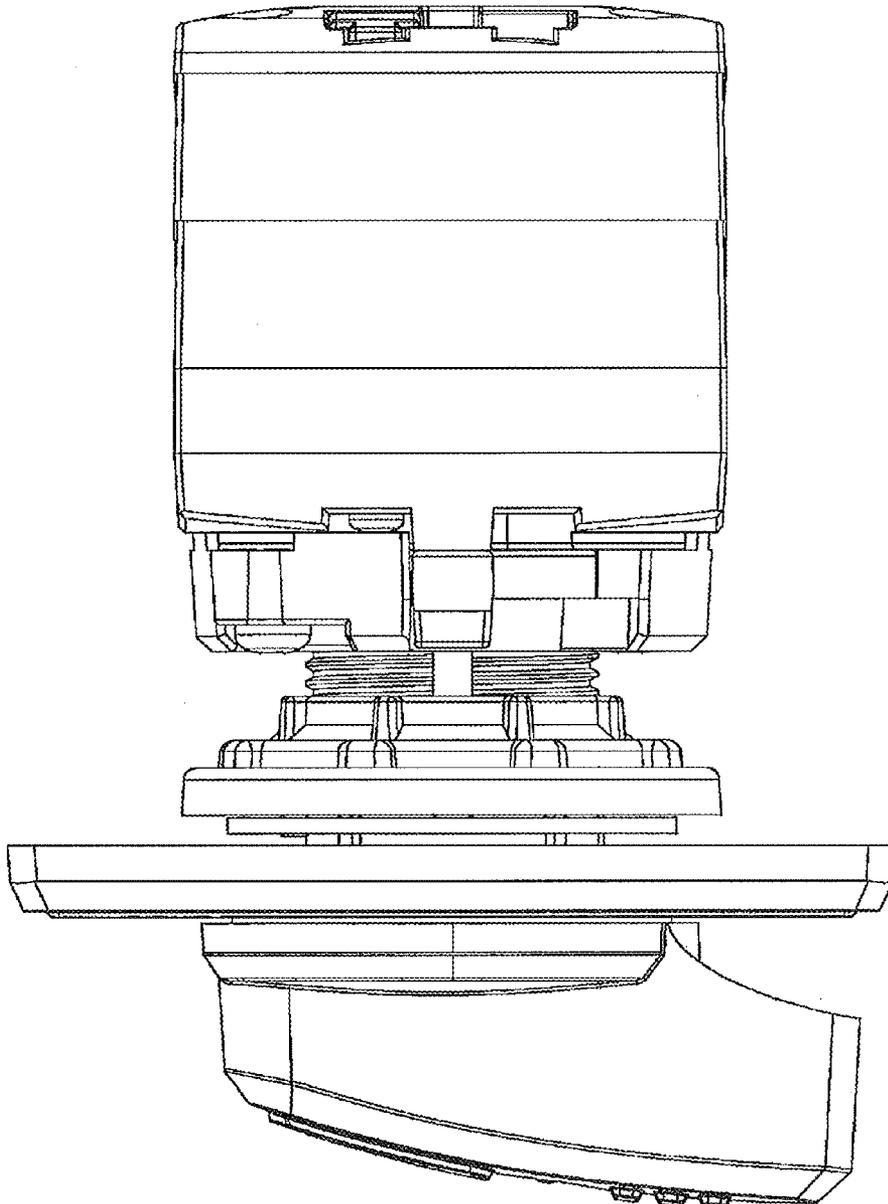


FIG. 19

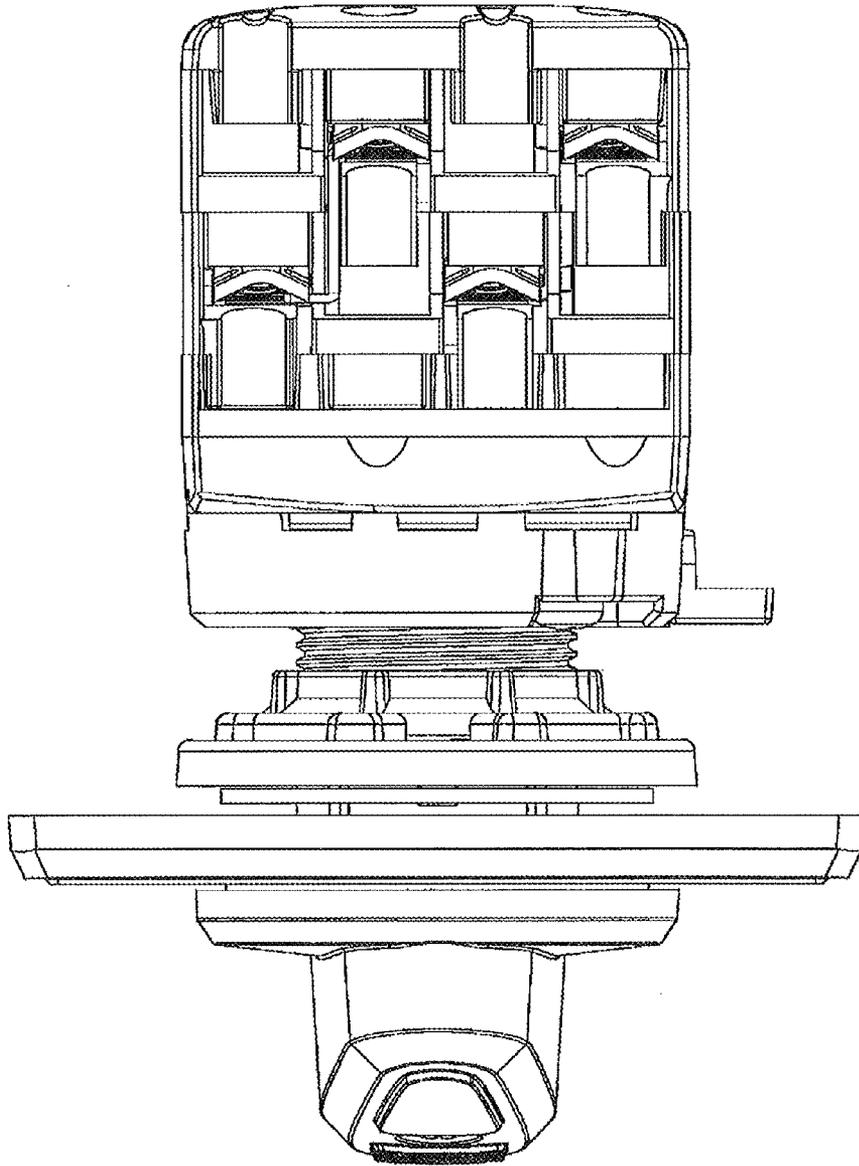


FIG. 20

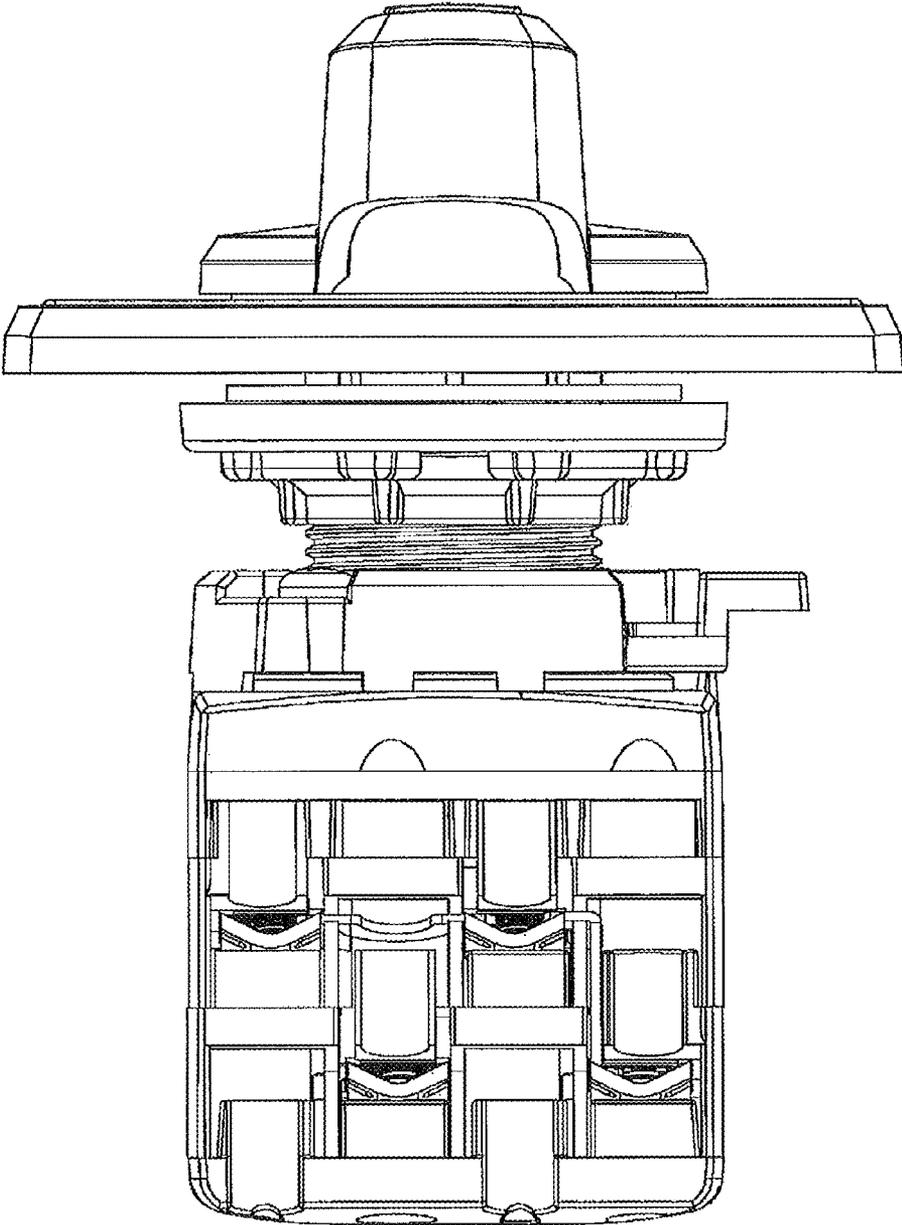


FIG. 21

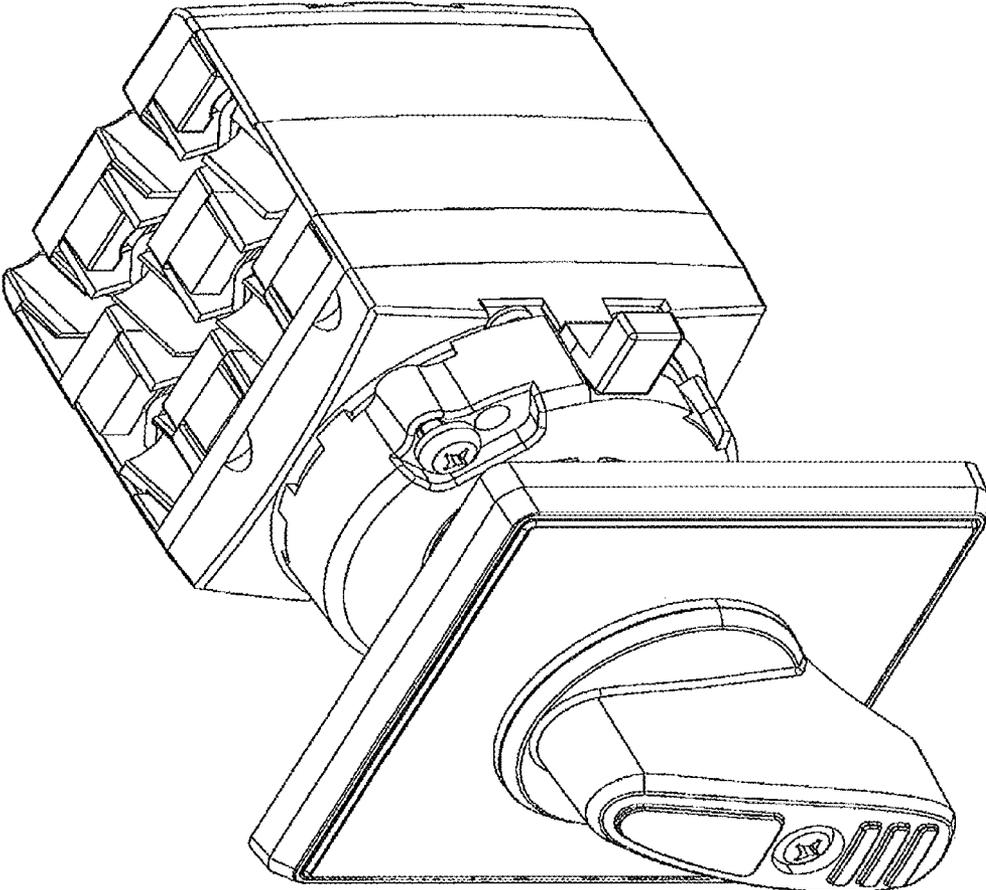


FIG. 22

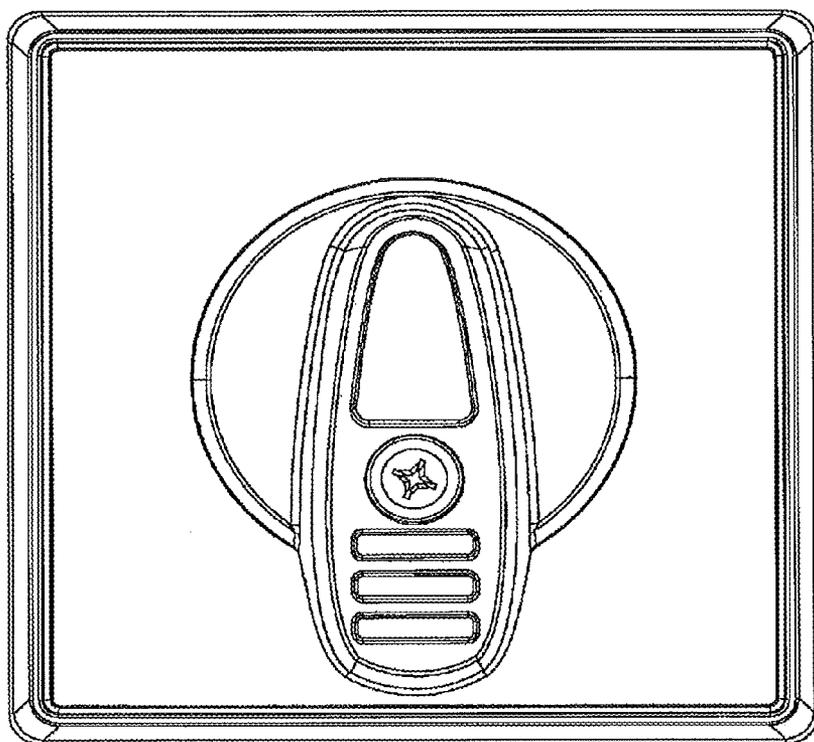


FIG. 23

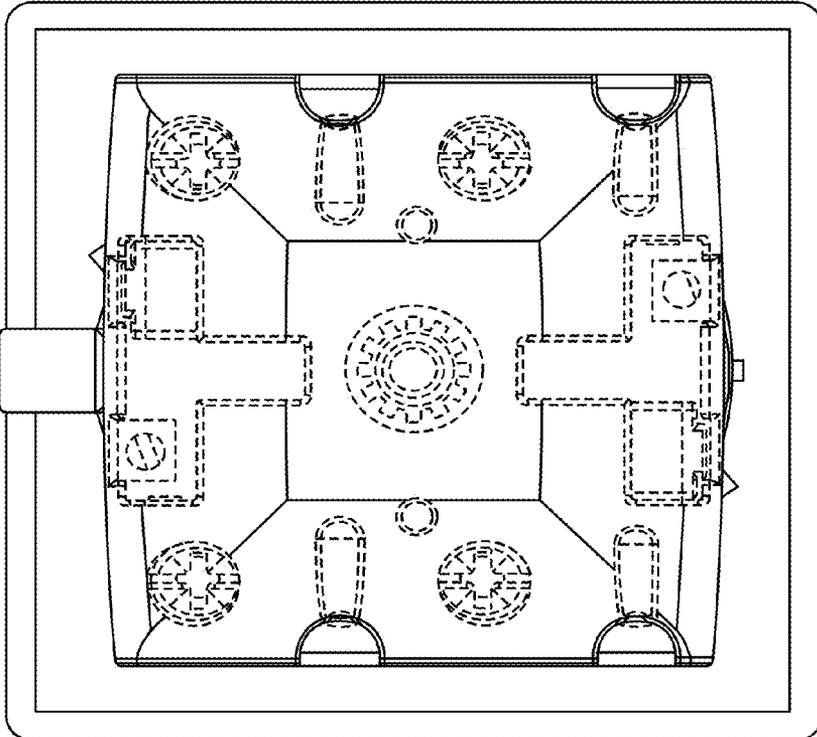


FIG. 24

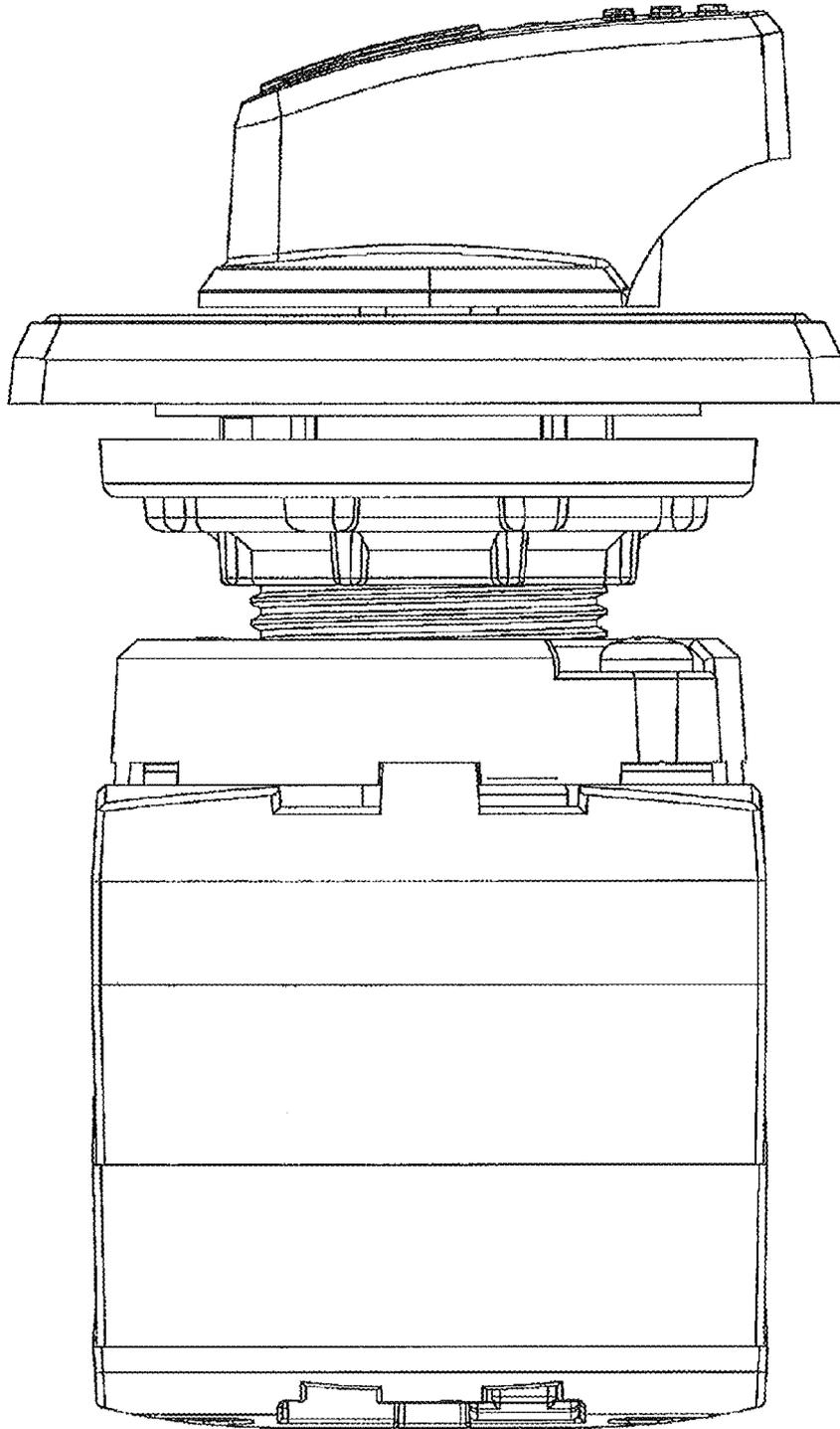


FIG. 25

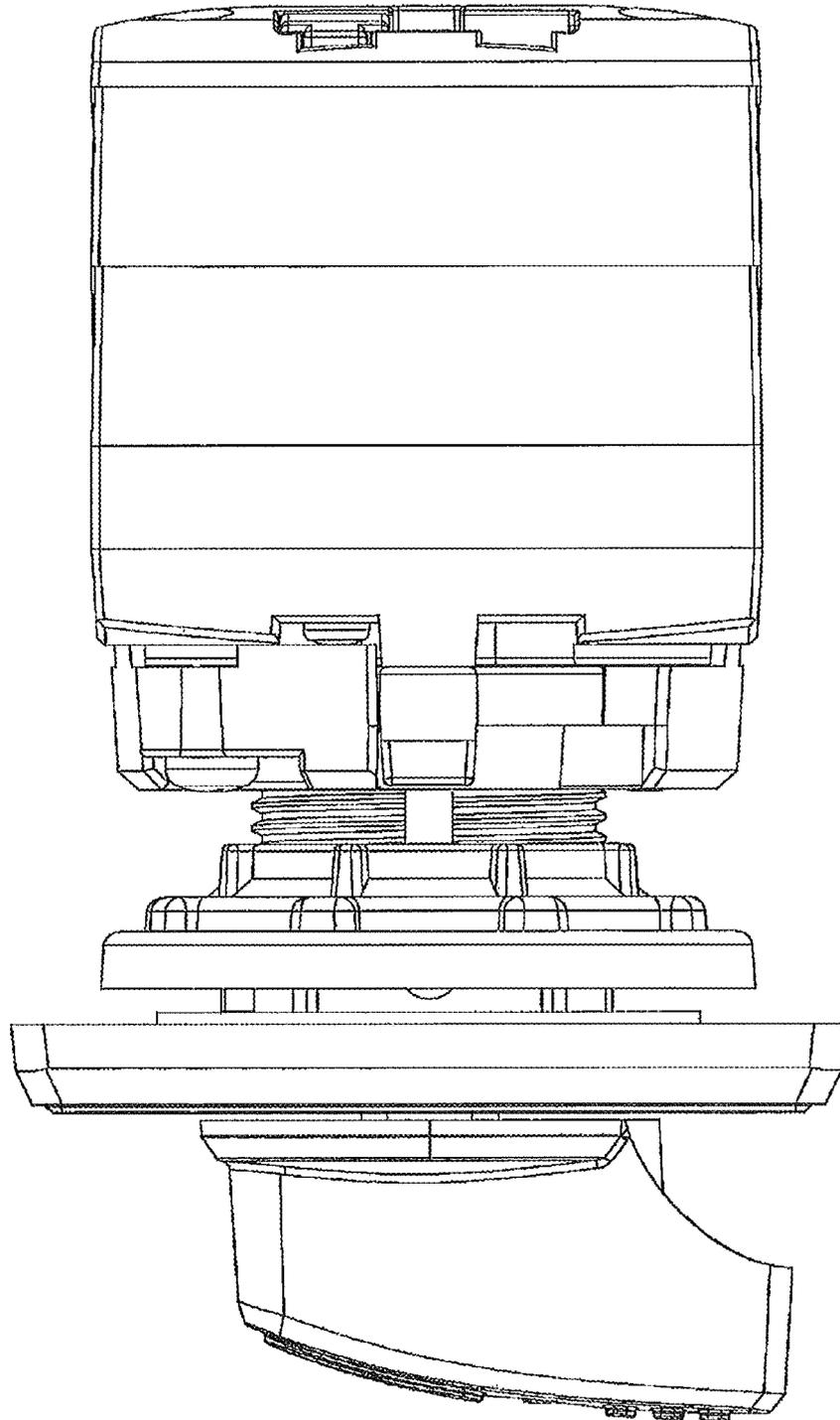


FIG. 26

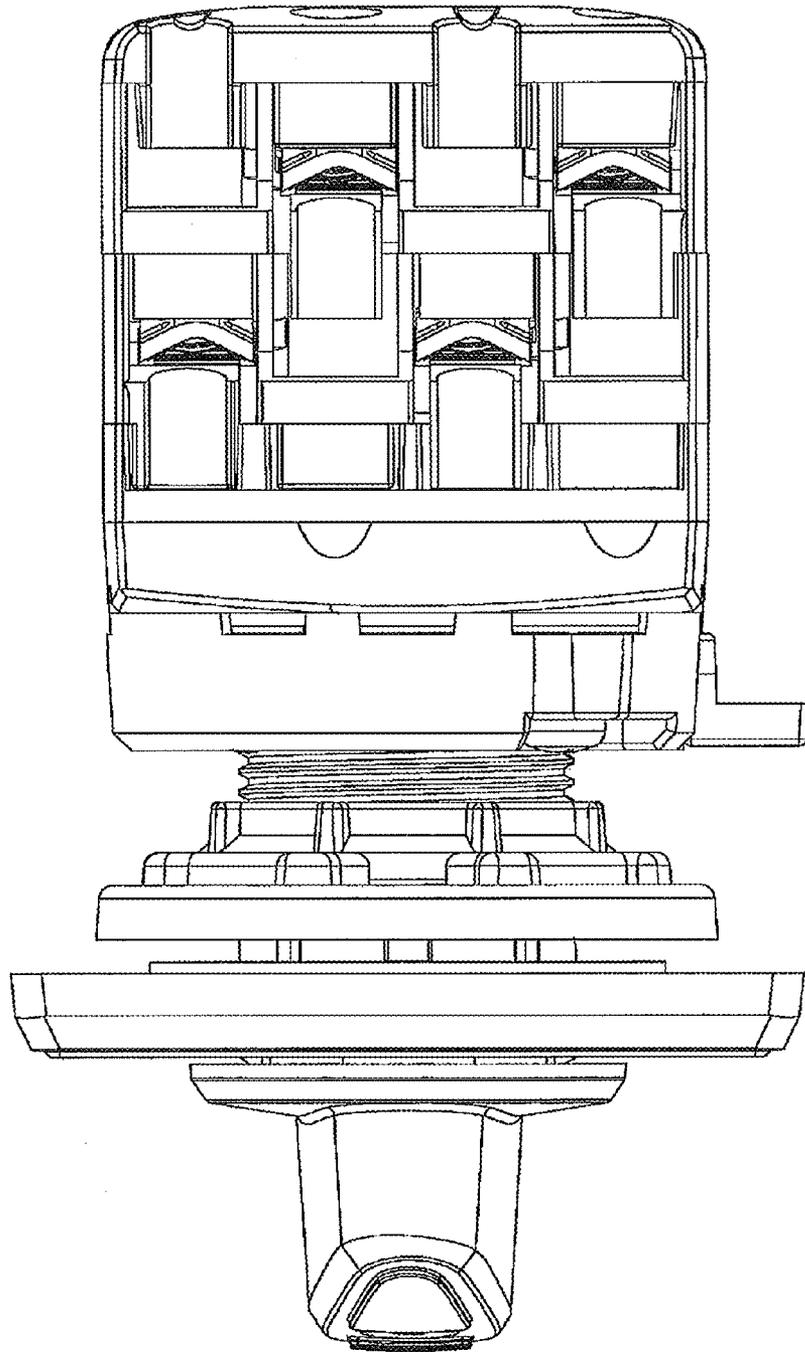


FIG. 27

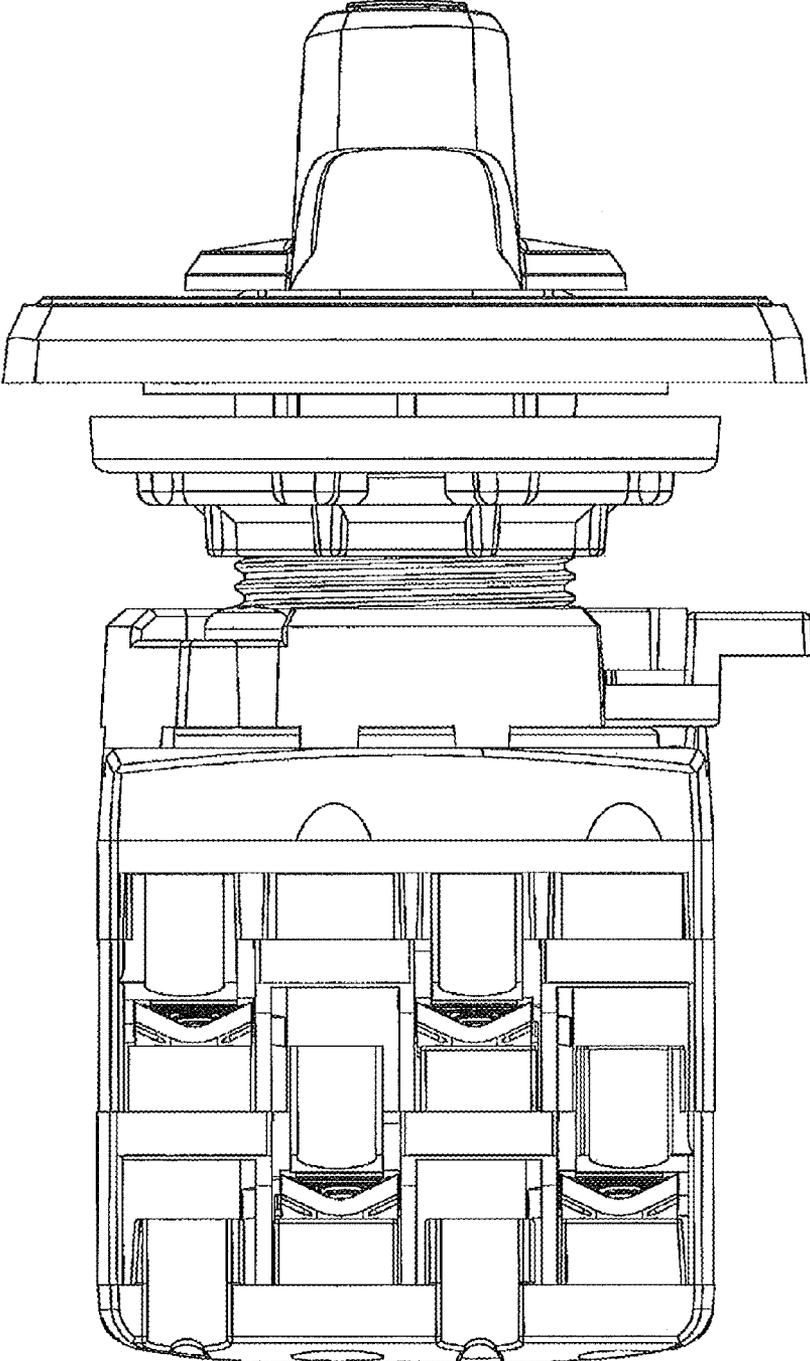


FIG. 28