



US00D838811S

(12) **United States Design Patent**  
**Kornblum**

(10) **Patent No.:** **US D838,811 S**  
(45) **Date of Patent:** **\*\* Jan. 22, 2019**

(54) **AUTOMATIC DRAIN VALVE**  
(71) Applicant: **CONTROL DEVICES, LLC**, Fenton, MO (US)  
(72) Inventor: **Thomas M. Kornblum**, Eureka, MO (US)  
(73) Assignee: **Control Devices, LLC**, Fenton, MO (US)

3,992,941 A 11/1976 McGoldrick  
3,993,090 A 11/1976 Hankison  
4,082,107 A 4/1978 Hoffman et al.  
4,112,968 A 9/1978 Hoffman et al.  
4,136,009 A 1/1979 Samiran  
4,729,328 A 3/1988 Shellenberger  
4,779,640 A 10/1988 Cummings et al.  
4,823,827 A 4/1989 Olejak

(Continued)

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

(21) Appl. No.: **29/574,156**

(22) Filed: **Aug. 12, 2016**

(51) **LOC (11) Cl.** ..... **23-01**

(52) **U.S. Cl.**  
USPC ..... **D23/233**

(58) **Field of Classification Search**  
USPC ..... D23/233, 235, 249; 137/192, 195, 1, 137/588, 15.05, 204; 251/356  
CPC .... F16T 1/20; F16T 1/38; F16K 27/02; F16K 1/36; B66F 5/00

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,186,923 A 1/1940 Hooper et al.  
2,629,458 A 2/1953 Allen et al.  
2,677,386 A 5/1954 Wilkerson  
2,999,509 A 9/1961 Hankison et al.  
3,203,245 A 8/1965 Smallpeice  
3,269,403 A 8/1966 Smallpeice  
3,275,020 A 9/1966 Fujiwara  
3,378,993 A 4/1968 Veres et al.  
3,418,789 A 12/1968 Hoffman et al.  
3,495,617 A 2/1970 Zifferer  
3,507,098 A 4/1970 Veres et al.  
3,980,457 A 9/1976 Smith

**FOREIGN PATENT DOCUMENTS**

EP 1130308 A2 9/2001  
EP 2910867 A1 8/2015

(Continued)

*Primary Examiner* — Cynthia Ramirez

*Assistant Examiner* — Gino Colan

(74) *Attorney, Agent, or Firm* — Stinson Leonard Street LLP

(57) **CLAIM**

An ornamental design for an automatic drain valve, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective of an automatic drain valve of the present invention;

FIG. 2 is a perspective of the automatic drain valve as viewed in a different orientation;

FIG. 3 is a front elevation of the automatic drain valve;

FIG. 4 is a right side elevation of the automatic drain valve;

FIG. 5 is a top plan of the automatic drain valve;

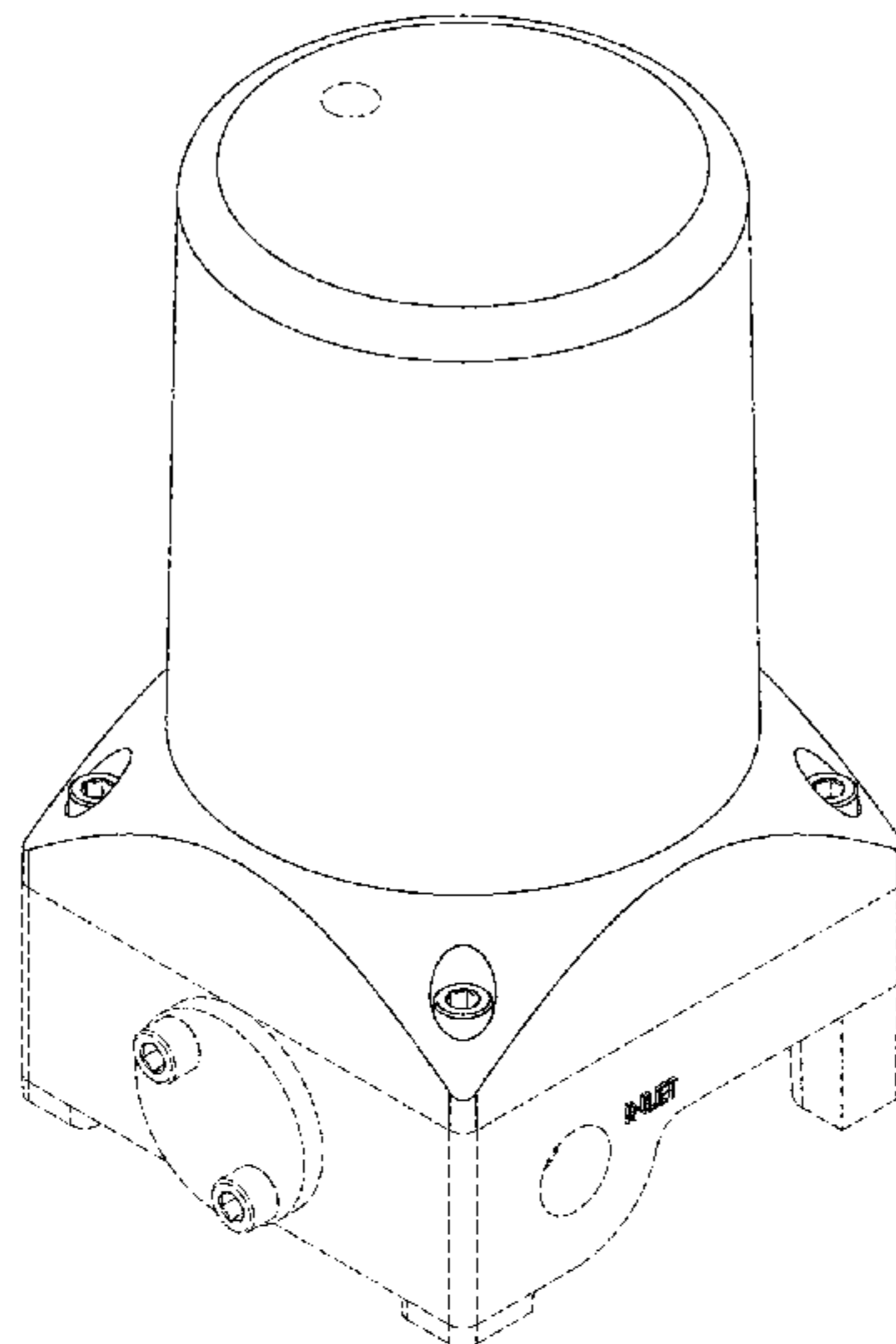
FIG. 6 is a left side elevation of the automatic drain valve;

FIG. 7 is a rear elevation of the automatic drain valve; and,

FIG. 8 is a bottom plan of the automatic drain valve.

The broken lines shown in the figures are for the purpose of illustrating portions of the automatic drain valve and form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

5,014,735	A	5/1991	Cummings	
5,103,855	A	4/1992	Chuang	
5,115,798	A	5/1992	Moore, Jr. et al.	
5,146,947	A	9/1992	Vetrini	
5,365,969	A	11/1994	Edwards	
5,636,655	A	6/1997	Kawamura et al.	
5,769,911	A	6/1998	Van De Vijvere	
5,983,919	A	11/1999	Ottinger et al.	
D676,110	S *	2/2013	Oike .....	D23/233
D755,348	S *	5/2016	Mitsuoka .....	D23/233
2007/0006918	A1	1/2007	Yamamoto	
2007/0137706	A1	6/2007	Stamatakis et al.	
2016/0252191	A1 *	9/2016	Dillon .....	F01M 11/04 137/1
2017/0159277	A9 *	6/2017	Fima .....	E03F 5/042
2017/0282884	A1 *	10/2017	Villanger .....	B60T 17/004

FOREIGN PATENT DOCUMENTS

FR	2107774	A5	5/1972
GB	1387750	A	3/1975
JP	H1163388	A	3/1999

\* cited by examiner

FIG. 1

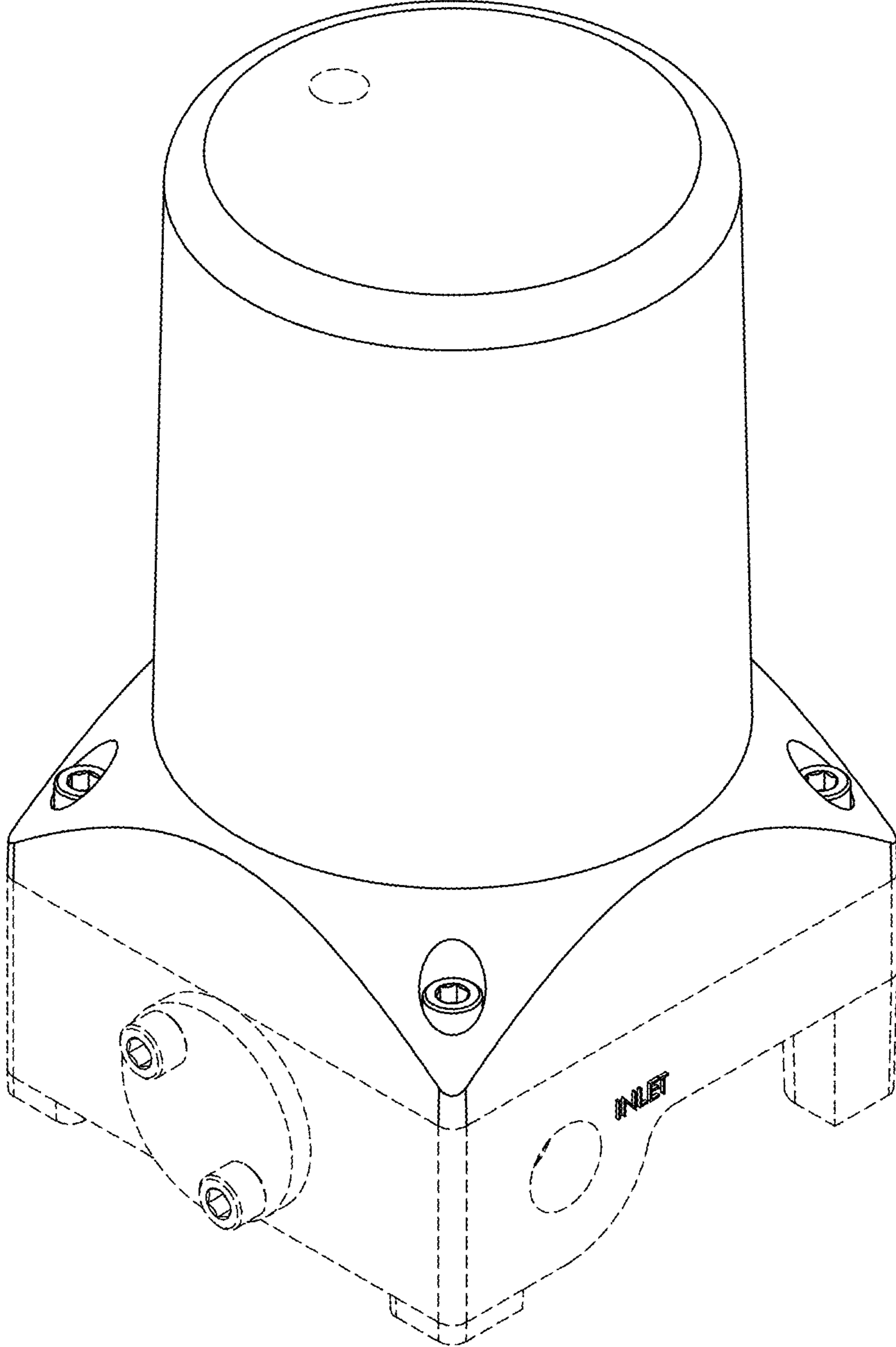


FIG. 2

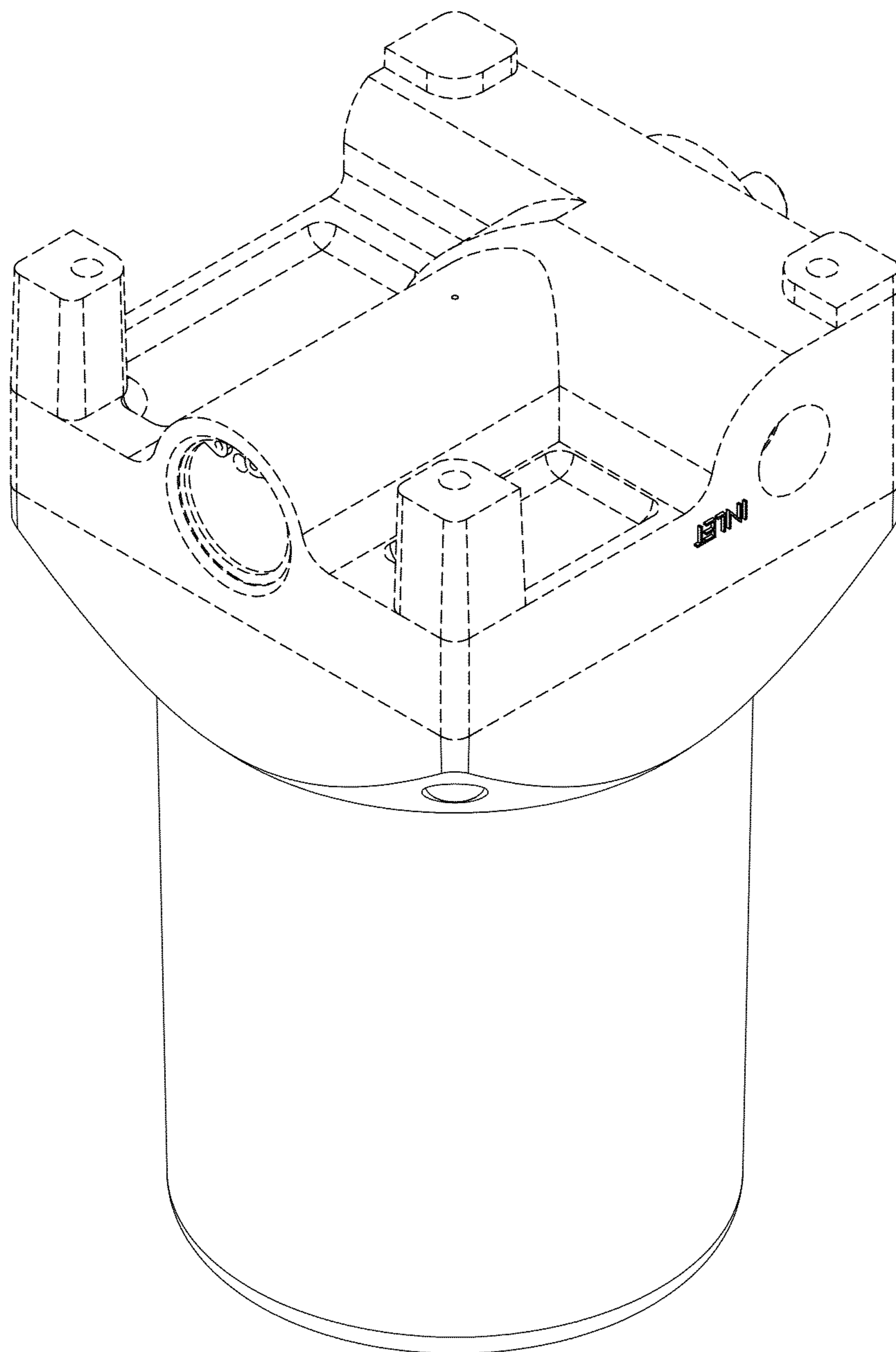


FIG. 3

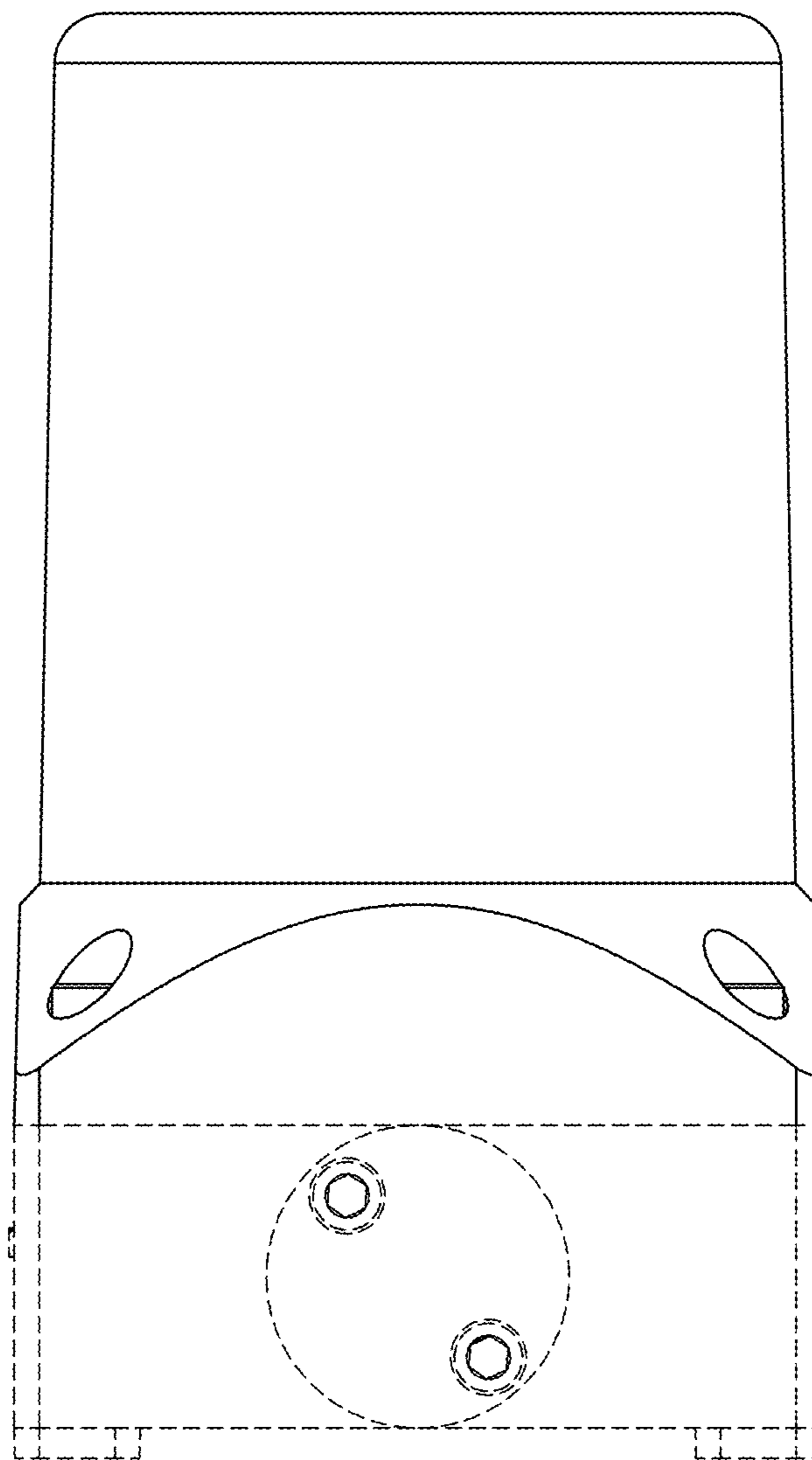


FIG. 4

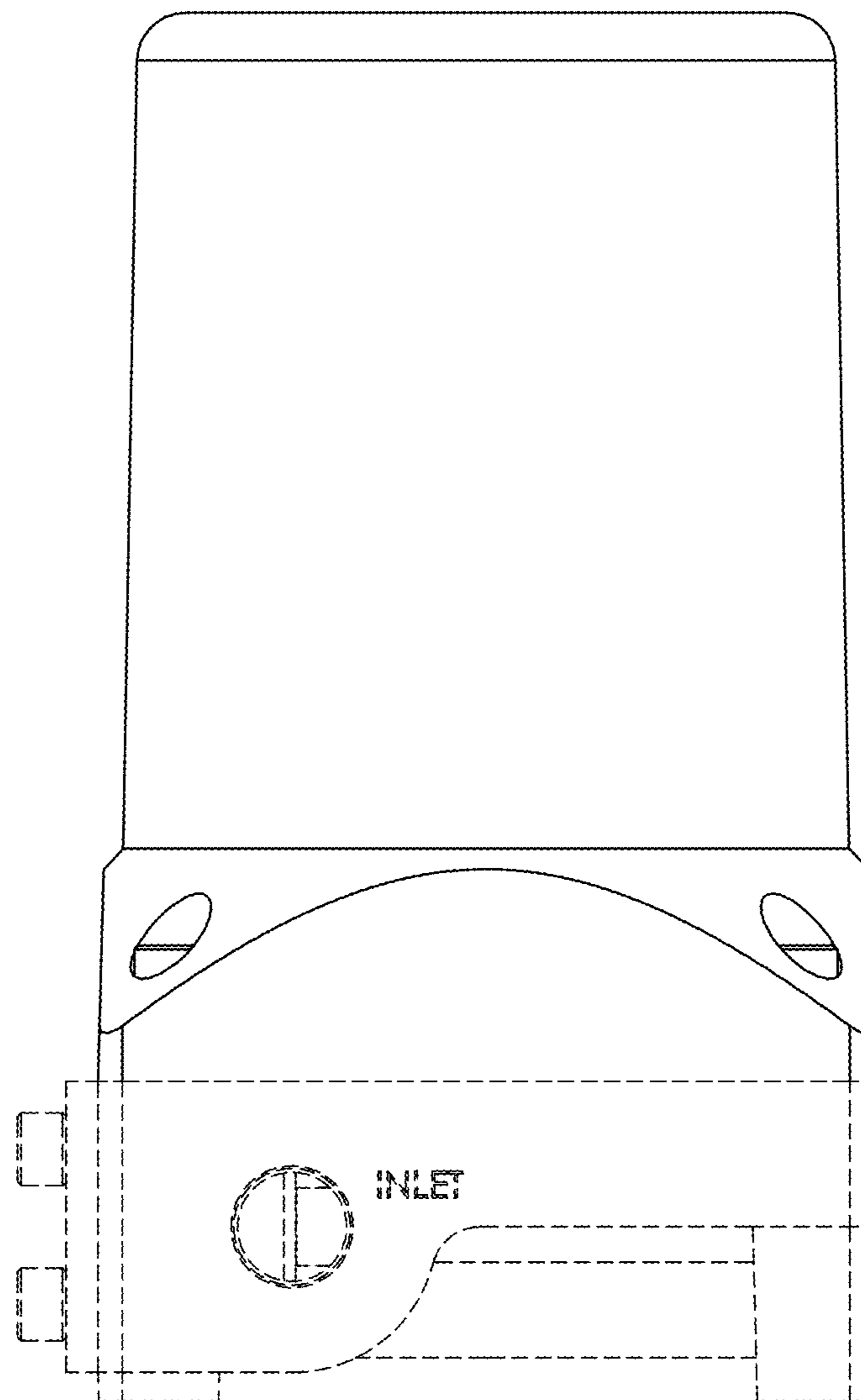


FIG. 5

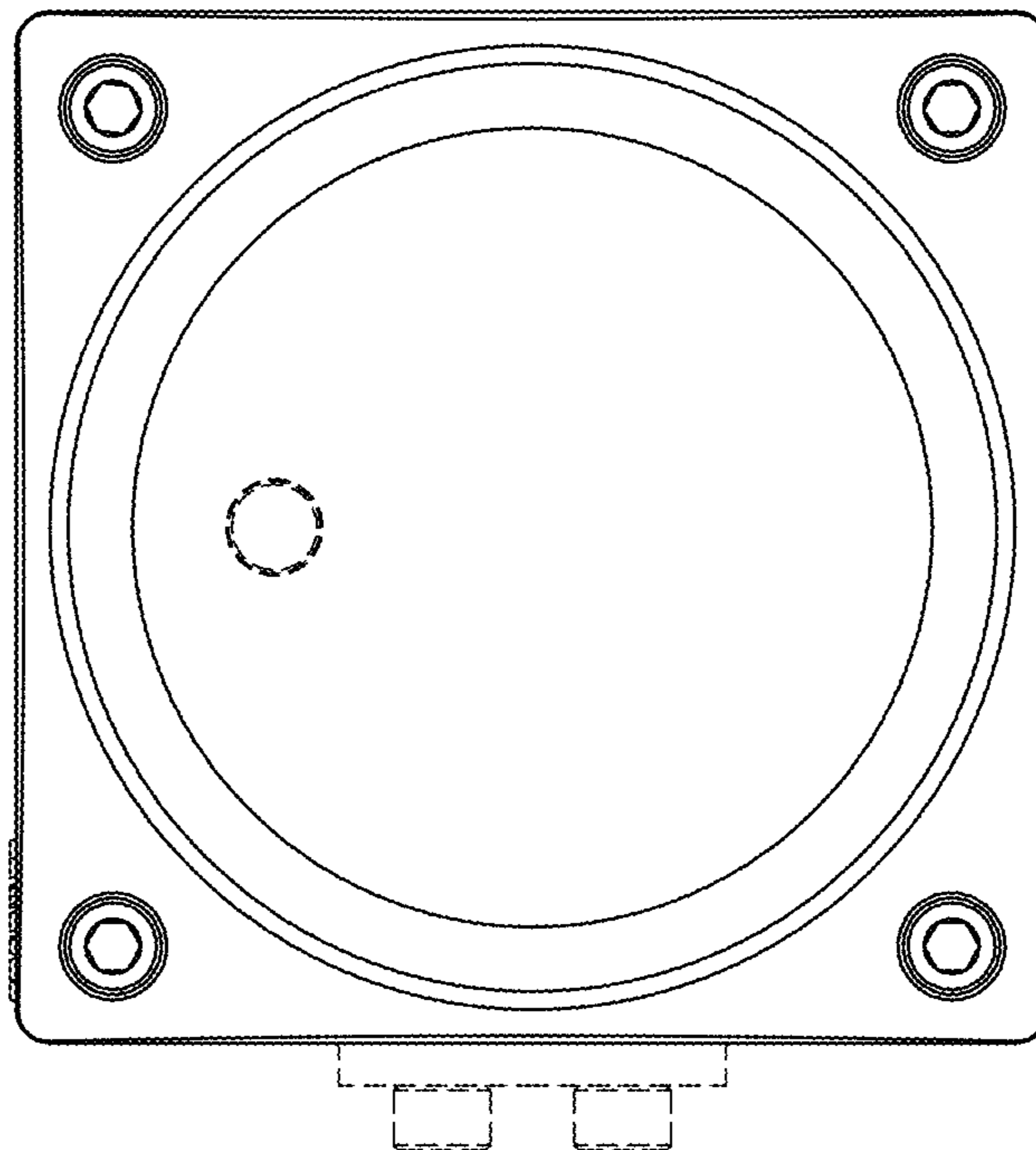


FIG. 6

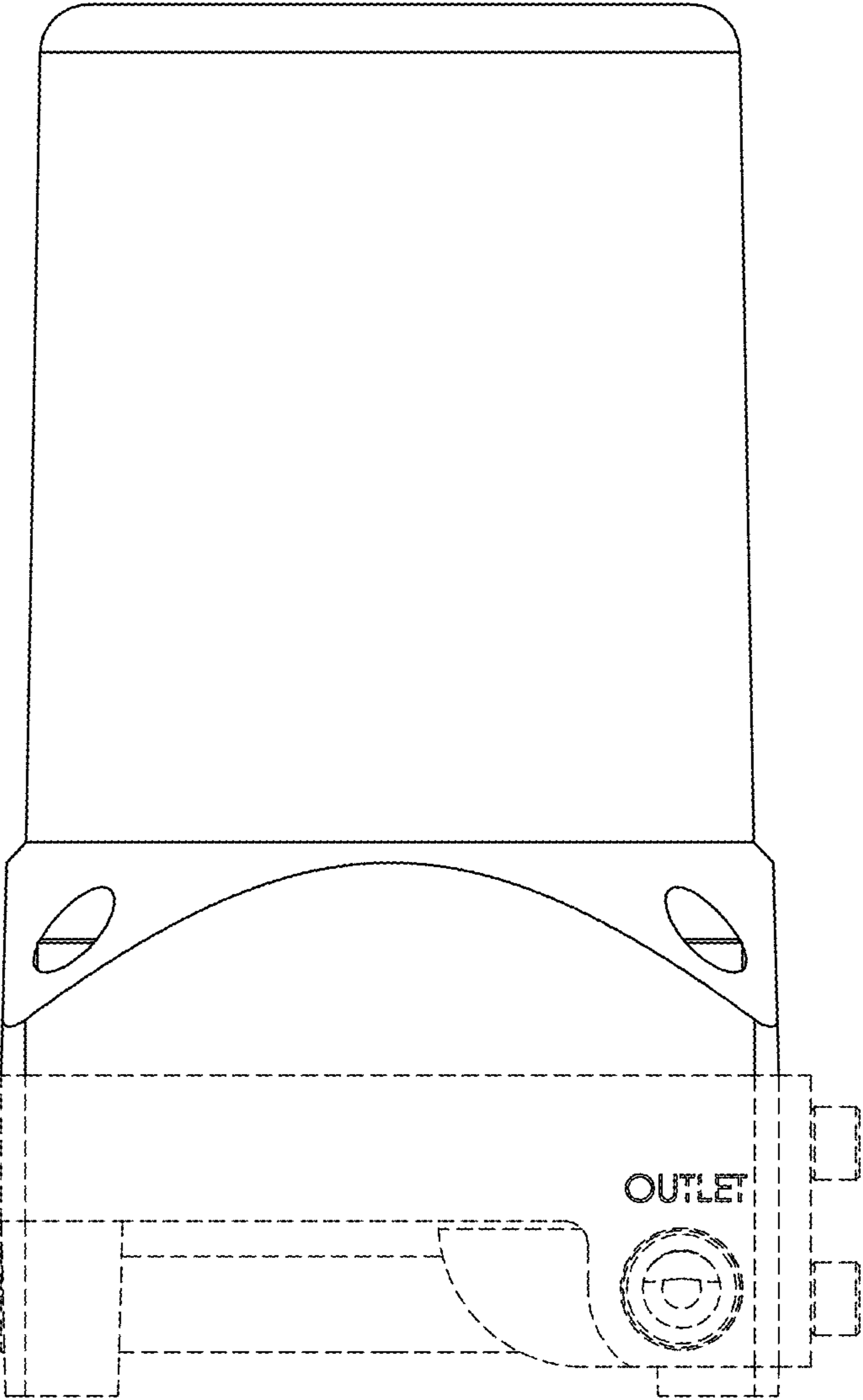




FIG. 7

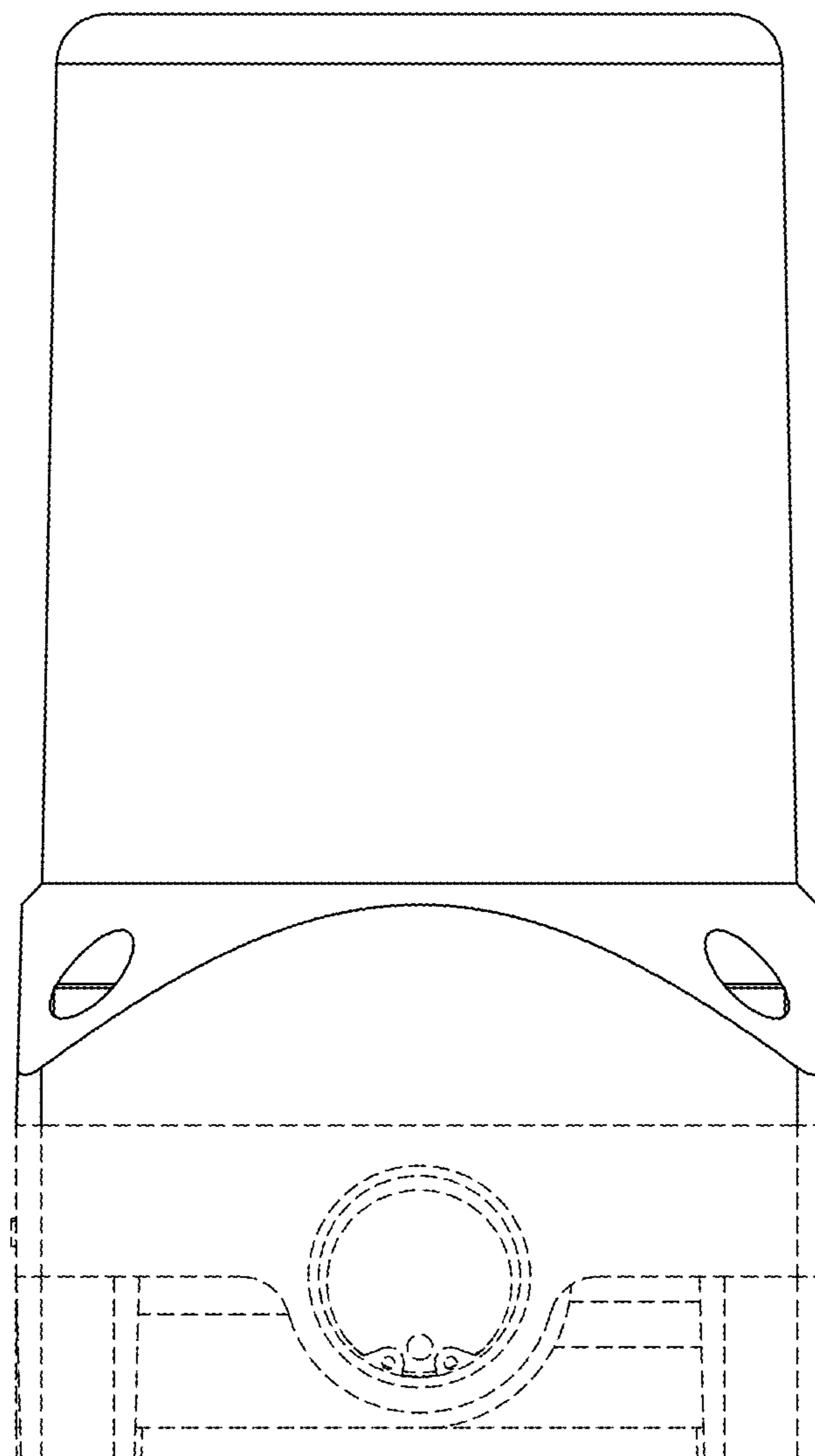


FIG. 8

