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

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- (54) **SMART BOLLARD**
- (71) Applicant: **MACHINEFABRIEK L.**
STRAATMAN B.V., Zwijndrecht (NL)
- (72) Inventors: **Gertjan Strietman**, Papendrecht (NL);
Markus Van der Laan, Oegstgeest (NL)
- (73) Assignee: **MACHINEFABRIEK L.**
STRAATMAN B.V., Zwijndrecht (NL)

- 4,297,962 A * 11/1981 Johnson, Jr. B63B 21/045
248/499
- 4,354,445 A * 10/1982 Kafka B63C 3/06
114/218
- 4,809,634 A * 3/1989 Czipri B63B 21/045
114/218
- 5,301,627 A * 4/1994 Czipri B63B 21/045
114/218
- 5,438,944 A * 8/1995 Burke B63B 21/045
114/218
- 5,535,694 A * 7/1996 Czipri B63B 21/045
114/218

(Continued)

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

Primary Examiner — Cynthia R Underwood
(74) *Attorney, Agent, or Firm* — Renner, Kenner, Greive,
Bobak Taylor & Weber

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(51) **LOC (14) Cl.** **09-06**

(52) **U.S. Cl.**
USPC **D8/356**

(58) **Field of Classification Search**
USPC D8/356, 354, 349, 382; 361/826;
D12/317; 410/104; 114/218
CPC B63B 21/045
See application file for complete search history.

(57) **CLAIM**

The ornamental design for the smart bollard, as shown and described.

DESCRIPTION

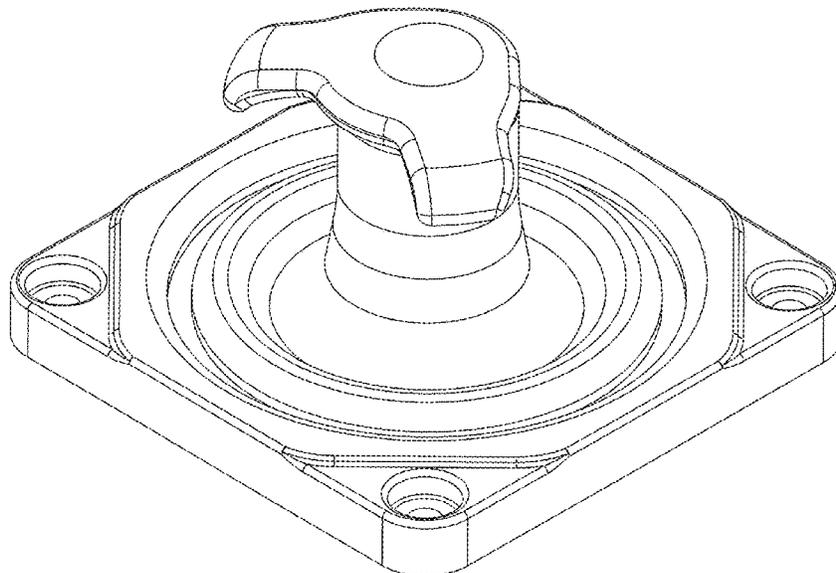
FIG. 1 is top, rear and side perspective view of a smart bollard showing their new design;
FIG. 2 is a top, front and side perspective view of the smart bollard of FIG. 1;
FIG. 3 is a front elevational view of the smart bollard of FIG. 1;
FIG. 4 is a rear elevational view of the smart bollard of FIG. 1;
FIG. 5 is a side elevational view of the smart bollard of FIG. 1, with the other side being a mirror image of this side;
FIG. 6 is a top plan view of the smart bollard of FIG. 1;
FIG. 7 is a bottom plan view of the smart bollard of FIG. 1;
FIG. 8 is cross-sectional elevational view taken along the line 8-8 in FIG. 6 of the smart bollard of FIG. 1; and,
FIG. 9 is a cross-sectional view taken along the line 9-9 in FIG. 6 of the smart bollard of FIG. 1.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 348,001 A * 8/1886 Enos B63B 21/045
226/194
- 2,833,240 A * 5/1958 Semolic B63B 21/045
114/218
- 2,990,801 A * 7/1961 Ash E02B 3/24
114/218
- D204,332 S * 4/1966 Hargraves D12/317
- 3,905,322 A * 9/1975 Peterman B63B 21/045
D8/382
- D247,364 S * 2/1978 Schulz D8/382
- D250,571 S * 12/1978 Winslow D8/358
- 4,270,478 A * 6/1981 Kafka B63B 21/045
114/218

1 Claim, 9 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D401,841	S	*	12/1998	Bonstrom	.....	D8/356
D401,842	S	*	12/1998	Johnson, Jr.	.....	D8/356
5,983,820	A	*	11/1999	Whitley	.....	B63B 21/045 114/218
D430,099	S	*	8/2000	Sobey	.....	D21/771
D458,891	S	*	6/2002	Whitley	.....	D12/317
D483,247	S	*	12/2003	Pugh	.....	D8/356
D506,126	S	*	6/2005	Amy	.....	D8/382
D516,898	S	*	3/2006	Amy	.....	D8/356
D522,349	S	*	6/2006	Amy	.....	D8/356
7,131,387	B1	*	11/2006	Czipri	.....	B63B 21/045 114/218
D533,442	S	*	12/2006	Baylor	.....	D8/382
D541,635	S	*	5/2007	Amy	.....	D8/356
D551,059	S	*	9/2007	Wagner	.....	D8/356
D578,380	S	*	10/2008	Gassew	.....	D8/356
D615,019	S	*	5/2010	Jien	.....	D8/356
D630,933	S	*	1/2011	Marr, Jr.	.....	D8/356
D645,332	S	*	9/2011	Tung	.....	D8/356
8,025,431	B1	*	9/2011	Burke	.....	B63B 21/045 362/477
D737,502	S	*	8/2015	Kirkham	.....	D26/143
D762,461	S	*	8/2016	Kirkham	.....	D8/356
D821,186	S	*	6/2018	Pratt	.....	D8/382
D830,948	S	*	10/2018	Fenchak	.....	D12/414
D835,494	S	*	12/2018	Loechel	.....	D8/356
10,501,154	B2	*	12/2019	Brezina	.....	B63B 17/00
D932,875	S	*	10/2021	Parrott	.....	D8/354
D932,878	S	*	10/2021	Tung	.....	D8/356
D933,458	S	*	10/2021	Brown, Jr.	.....	D8/356

* cited by examiner

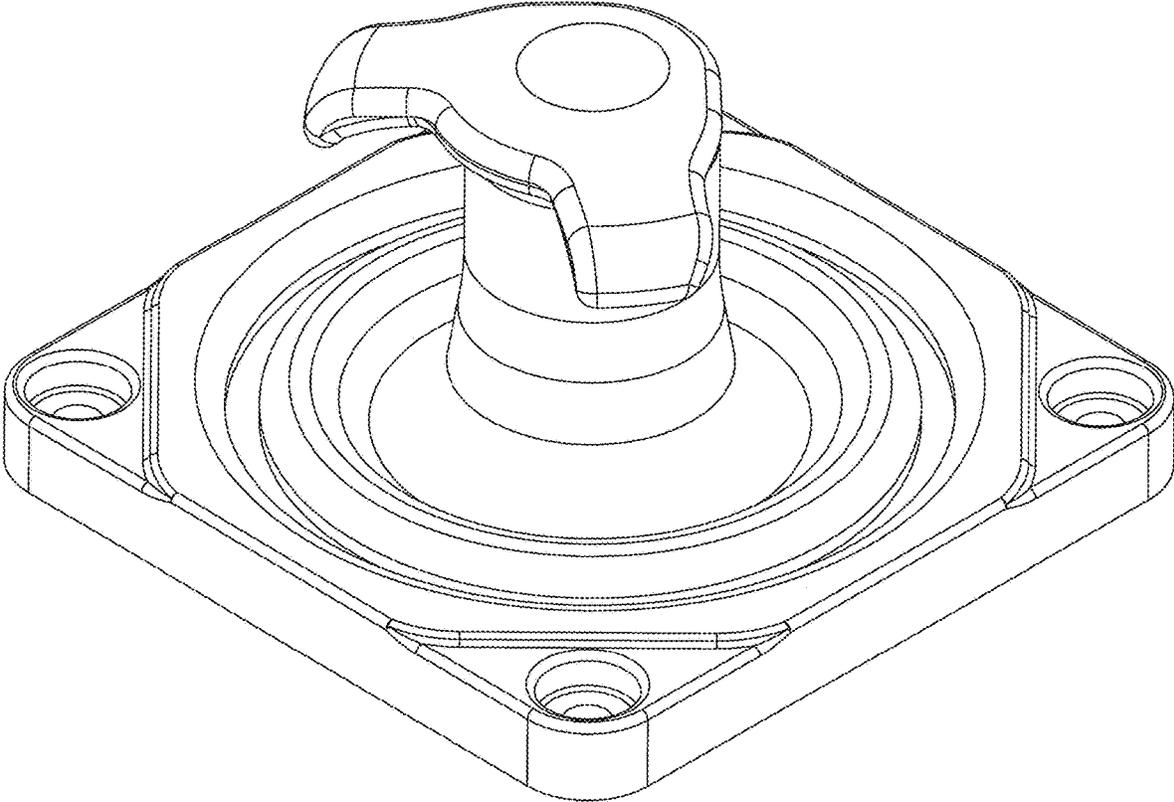


FIG. 1

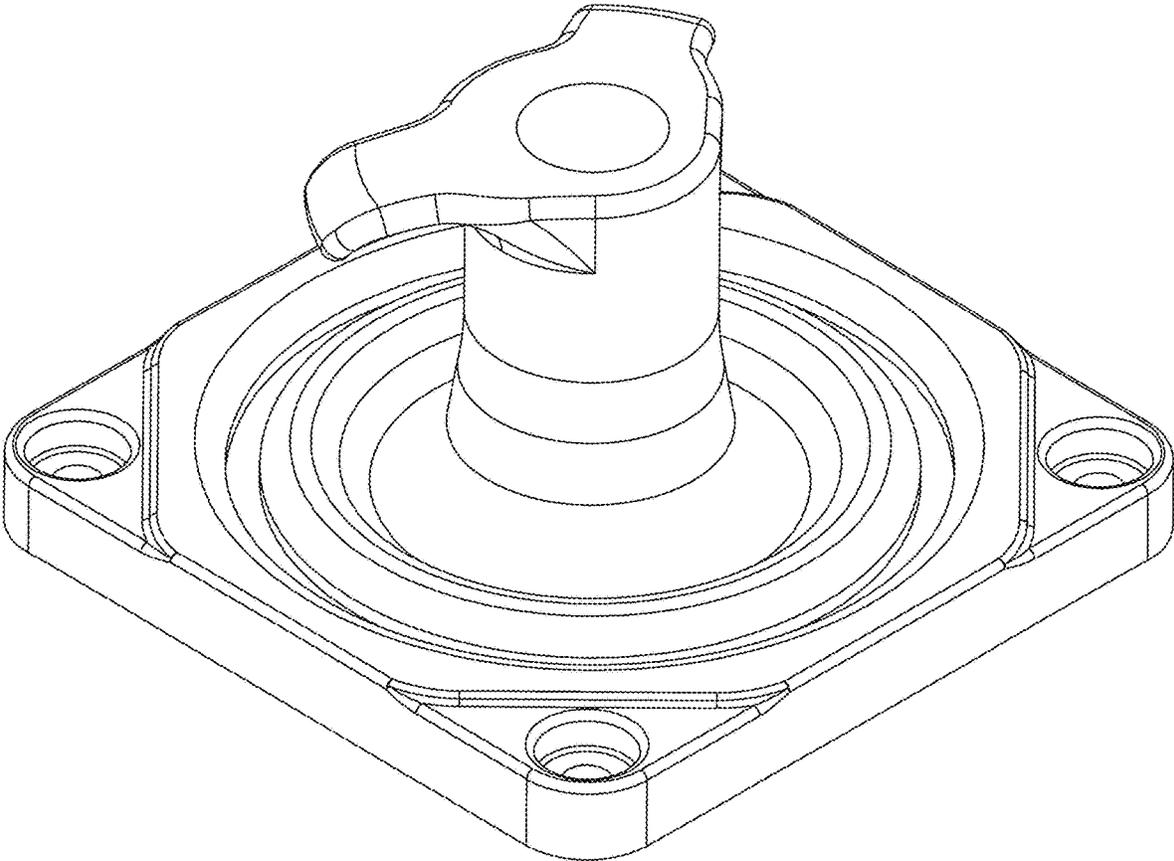


FIG. 2

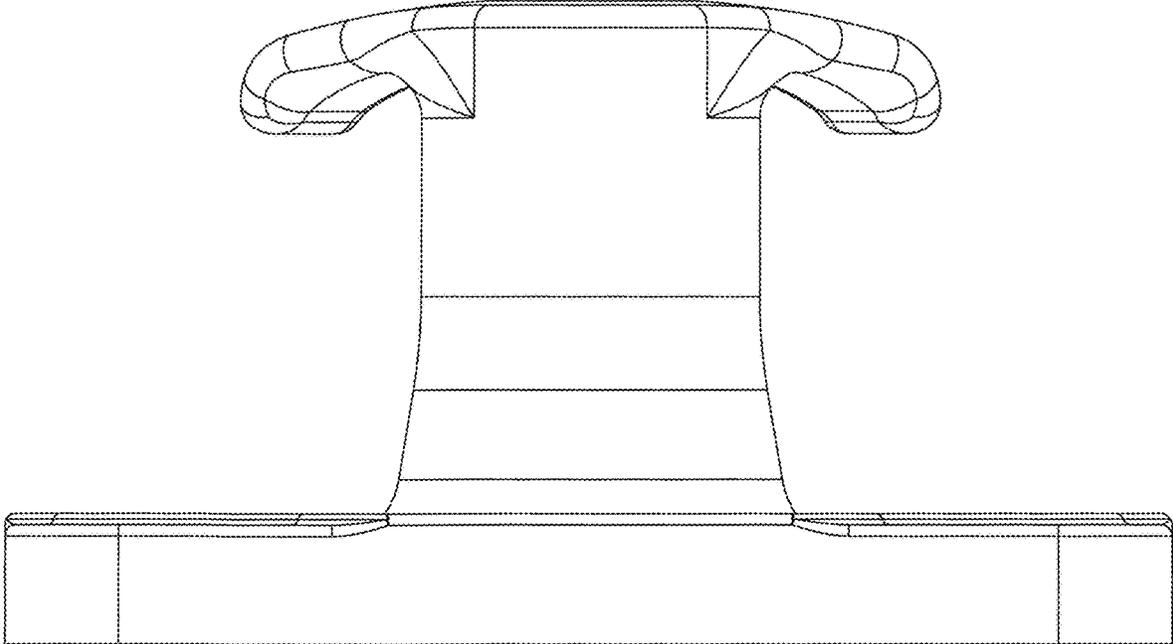


FIG. 3

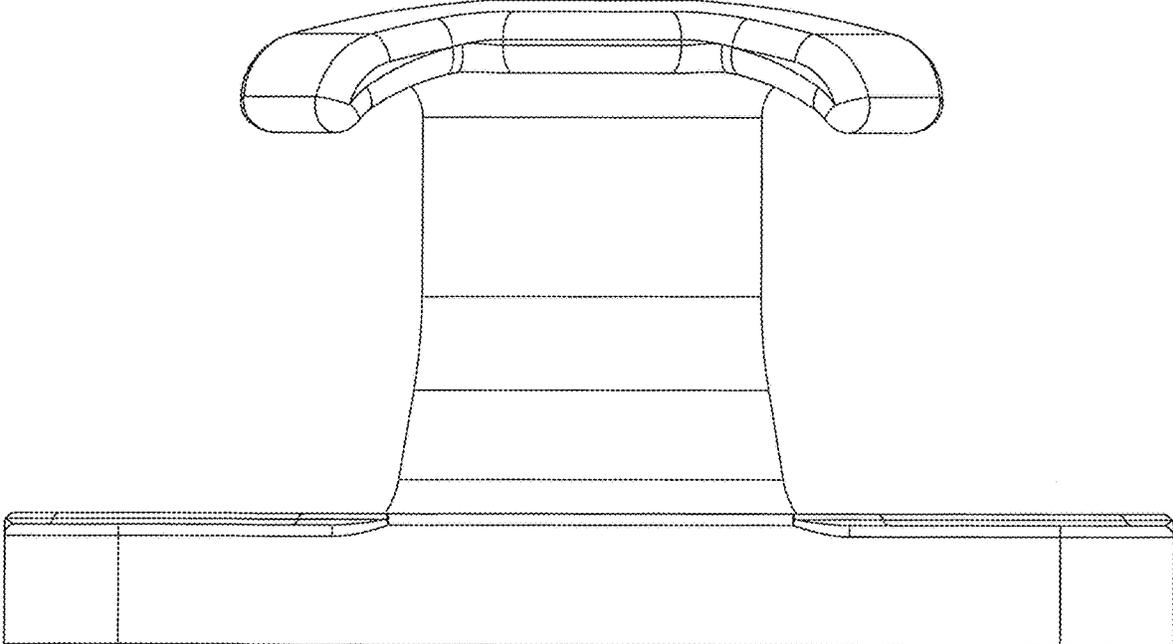


FIG. 4

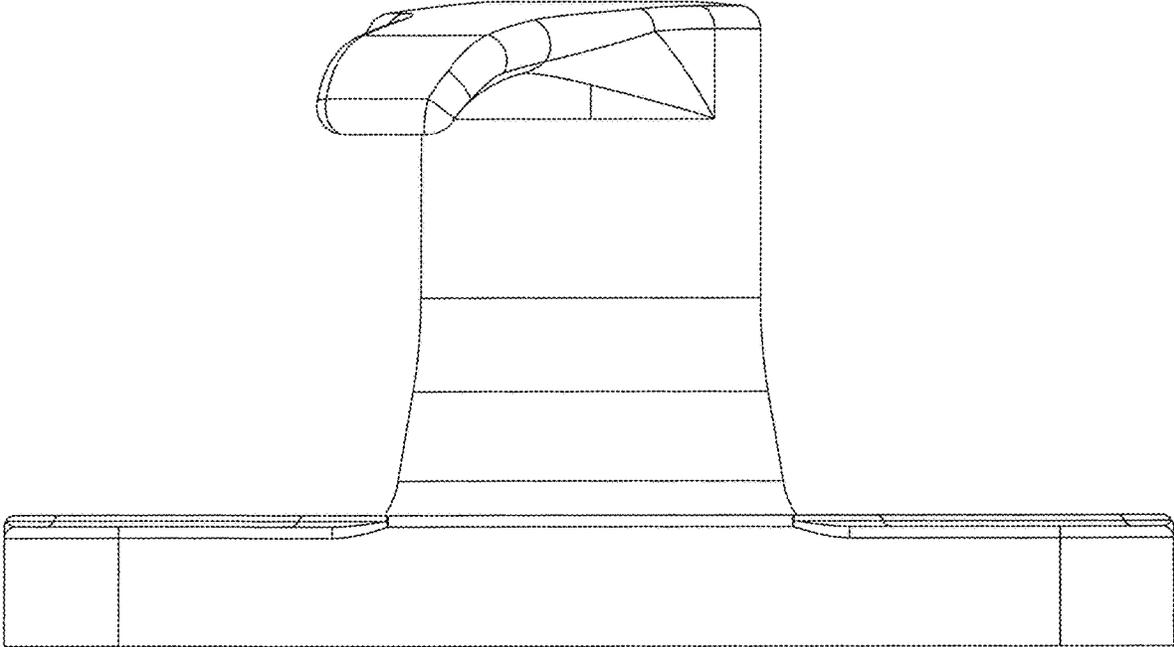


FIG. 5

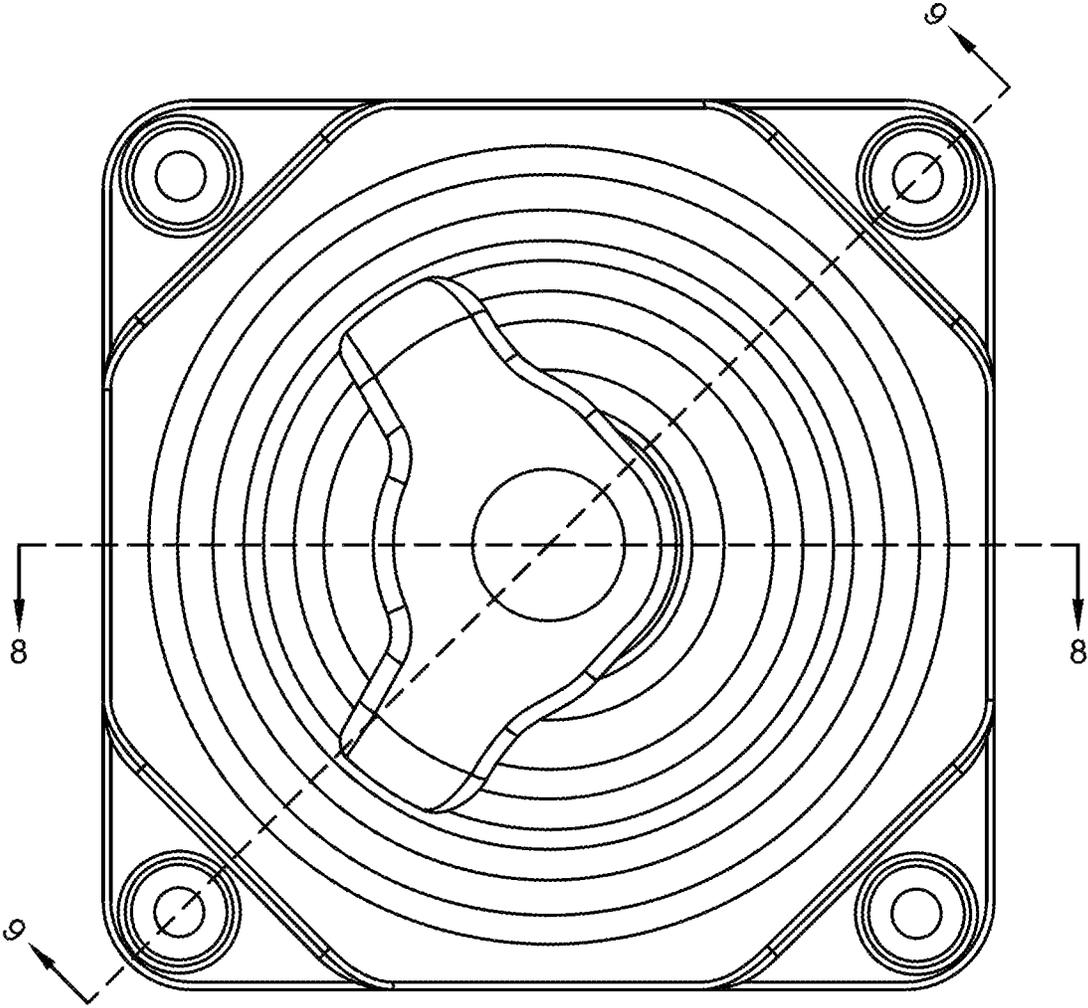


FIG.6

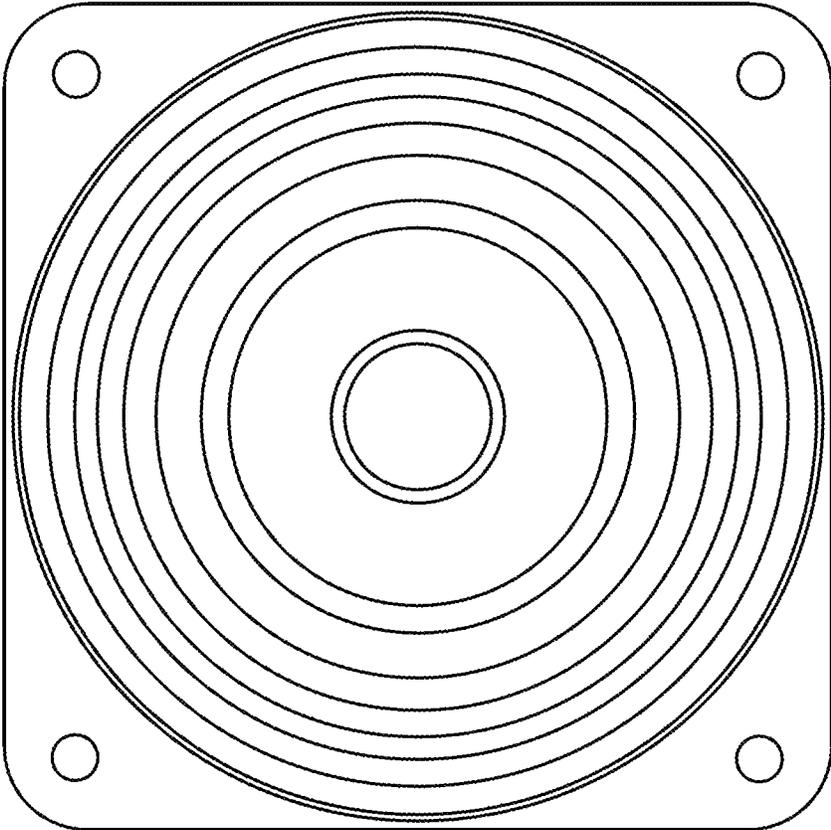


FIG.7

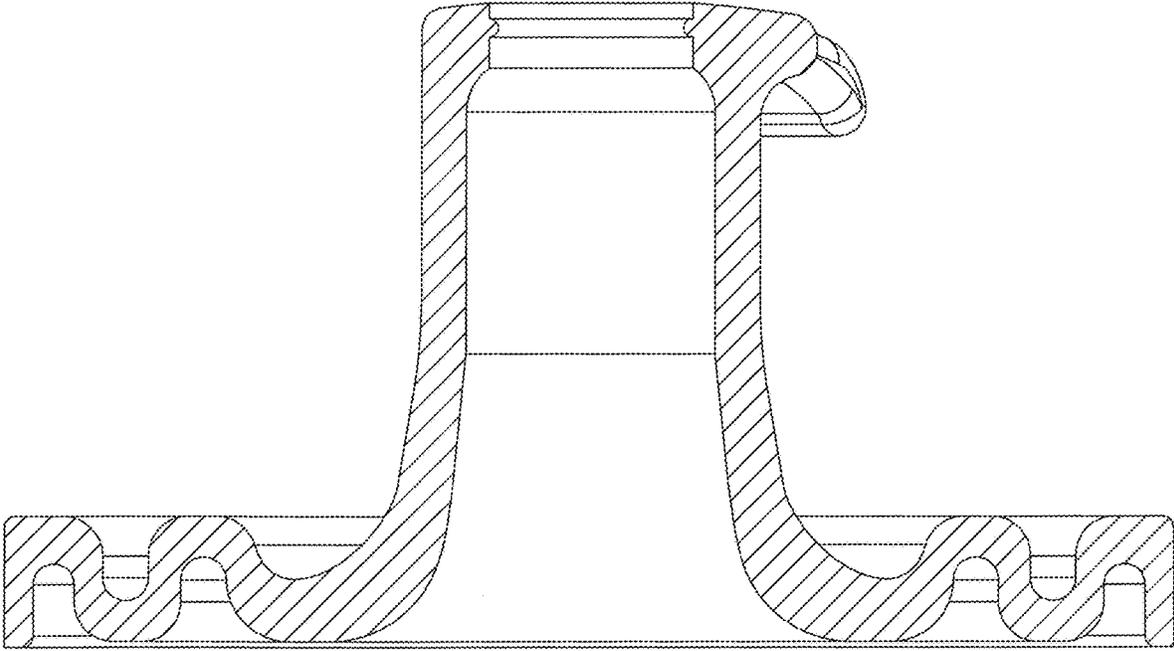


FIG. 8

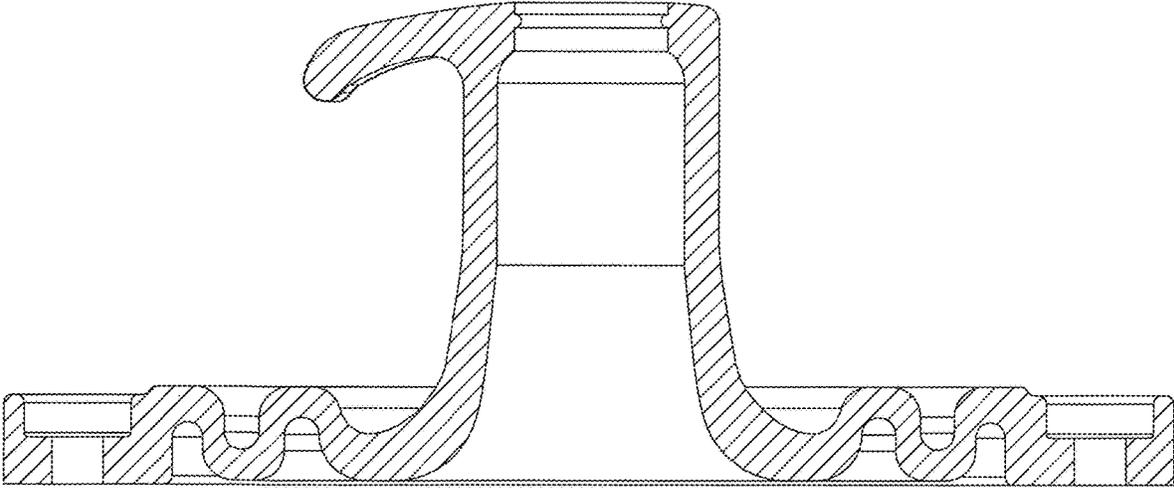


FIG. 9