



US00D934059S

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

(10) **Patent No.:** **US D934,059 S**

(45) **Date of Patent:** **** Oct. 26, 2021**

(54) **MULTI-AXIS POSITION HINGE**

(71) Applicant: **Reell Precision Manufacturing Corporation**, Saint Paul, MN (US)

(72) Inventors: **Bruce Earl Nelson**, Oakdale, MN (US);
Thomas Donald Nathe, Andover, MN (US)

(73) Assignee: **Reell Precision Manufacturing Corporation**, Saint Paul, MN (US)

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

(21) Appl. No.: **29/622,875**

(22) Filed: **Oct. 20, 2017**

(51) **LOC (13) Cl.** **08-05**

(52) **U.S. Cl.**
USPC **D8/355; D14/238**

(58) **Field of Classification Search**
USPC D8/355, 363, 373, 380, 349; D12/400,
D12/415-418, 420, 426.1, 114, 223;
D14/238, 250-254, 224.1, 238.1, 433,
D14/447, 451, 452, 483, 126, 129, 147
CPC A47B 21/04; A47B 2097/006; A47B
2097/005; A47B 2023/049; A45C
2011/002; A45C 2011/003; F16M
2200/00; F16M 13/00

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D86,963 S * 5/1932 Maves D8/380
4,764,773 A * 8/1988 Larsen H01Q 1/1285
333/25
D314,576 S * 2/1991 Hutchison D14/238
D320,602 S * 10/1991 Wells D14/238
D337,331 S * 7/1993 Lai D14/234
D338,207 S * 8/1993 Bennett D14/234
D346,603 S * 5/1994 Leu D14/238
D435,431 S * 12/2000 Fiegl D8/354
D441,273 S * 5/2001 O'Donnell D14/238

D472,546 S * 4/2003 Tourres D14/230
D472,892 S * 4/2003 Tourres D14/230
6,608,597 B1 * 8/2003 Hadzoglou H01Q 1/1285
343/713

(Continued)

OTHER PUBLICATIONS

Declaration of Tony Wang executed Dec. 19, 2017 with Exhibit A (3 pages).

Primary Examiner — Keli L Hill

Assistant Examiner — Harold E Blackwell, II

(74) *Attorney, Agent, or Firm* — Dicke, Billig & Czaja, PLLC

(57) **CLAIM**

The ornamental design for a multi-axis position hinge, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the multi-axis position hinge design, as viewed from the left-front side.

FIG. 2 is a perspective view of the multi-axis position hinge design, as viewed from the right-front side.

FIG. 3 is a front view of the multi-axis position hinge design. The back view of the multi-axis position hinge design is identical to the front view.

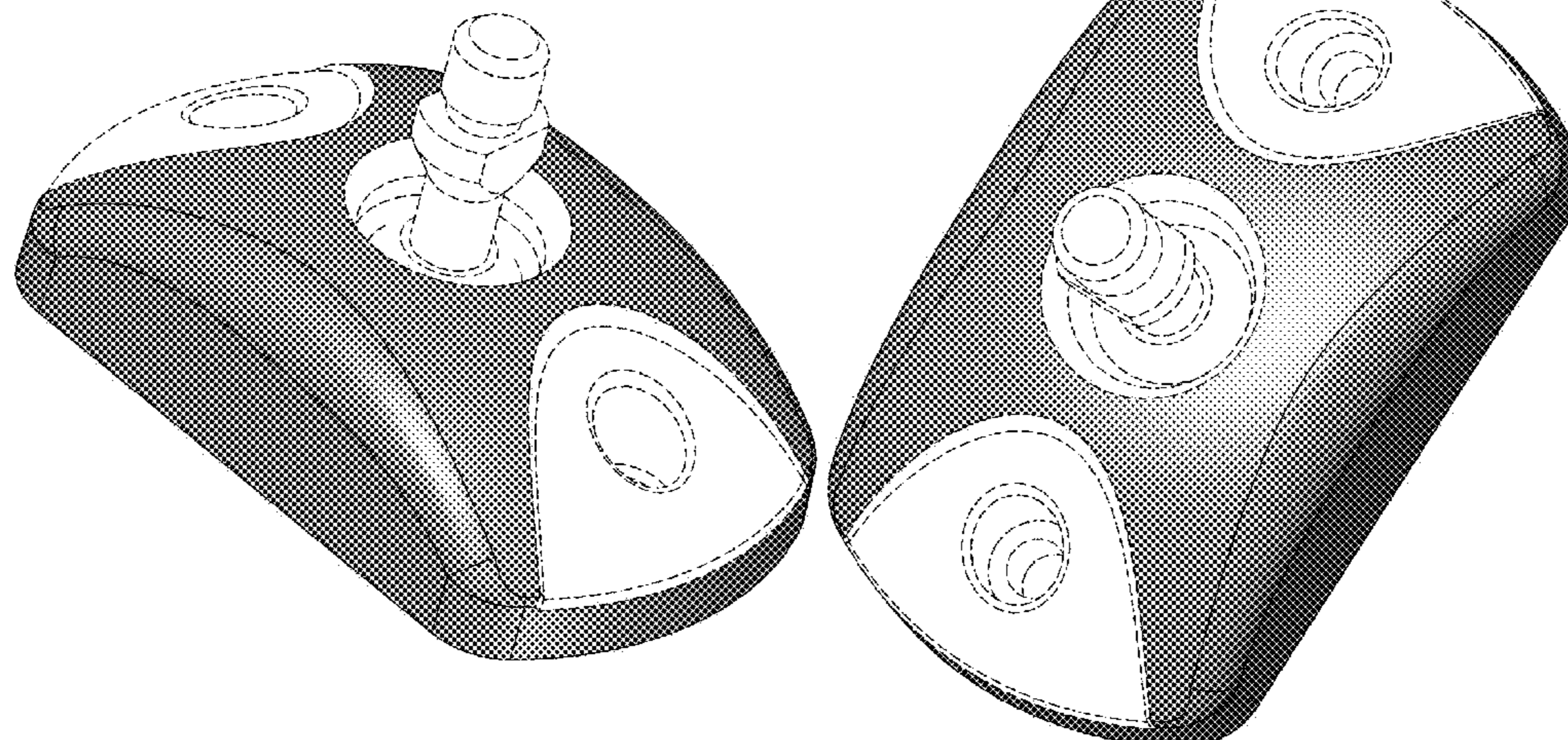
FIG. 4 is a left side view of the multi-axis position hinge design. The right side view of the multi-axis position hinge design is identical to the left side.

FIG. 5 is a top view of the multi-axis position hinge design; and,

FIG. 6 is a bottom view of the multi-axis position hinge design.

The broken lines immediately adjacent the shaded areas represent the bounds of the claimed design while all other broken lines are included for the purpose of illustrating portions of the multi-axis position hinge; the broken lines form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,441,736	B2 *	10/2008	Wiltfang	.....	A47F 5/0823 211/87.01
D668,247	S *	10/2012	Kim	.....	D14/253
D690,707	S *	10/2013	Minn	.....	B60R 11/0241 D14/447
D715,790	S *	10/2014	Conomos	.....	D14/253
D741,147	S *	10/2015	Buttau	.....	D8/354
D750,633	S *	3/2016	Minn	.....	D14/447
9,341,009	B2 *	5/2016	Triebold	.....	E05D 7/06
D799,466	S *	10/2017	Sukphist	.....	D14/253
9,899,009	B2 *	2/2018	Ng	.....	G10D 3/053
D832,265	S *	10/2018	Alves	.....	D14/439
D852,196	S *	6/2019	Alves	.....	D14/439
D854,021	S *	7/2019	Alves	.....	D14/439
D860,190	S *	9/2019	Liao	.....	D14/253
D872,727	S *	1/2020	Chung	.....	D14/253
D873,260	S *	1/2020	Dang	.....	D14/253
D881,896	S *	4/2020	Burns	.....	D14/447
D890,158	S *	7/2020	Alves	.....	D14/253
2005/0092875	A1 *	5/2005	Carnevali	.....	F16M 11/40 248/160
2010/0236020	A1 *	9/2010	Tsai	.....	F16M 11/14 16/224
2014/0165331	A1 *	6/2014	Kang	.....	F16C 11/0652 16/224

* cited by examiner

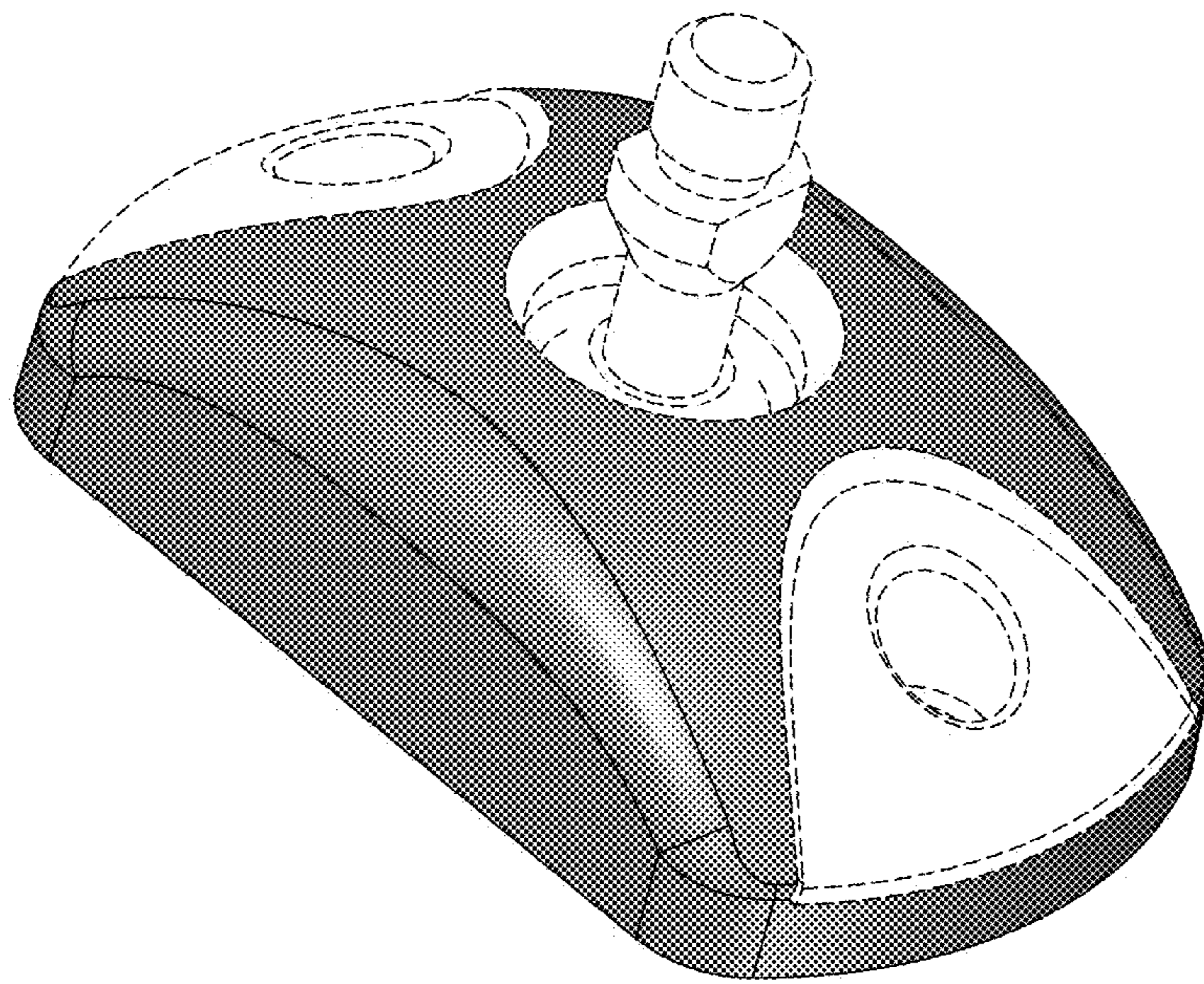


Fig. 1

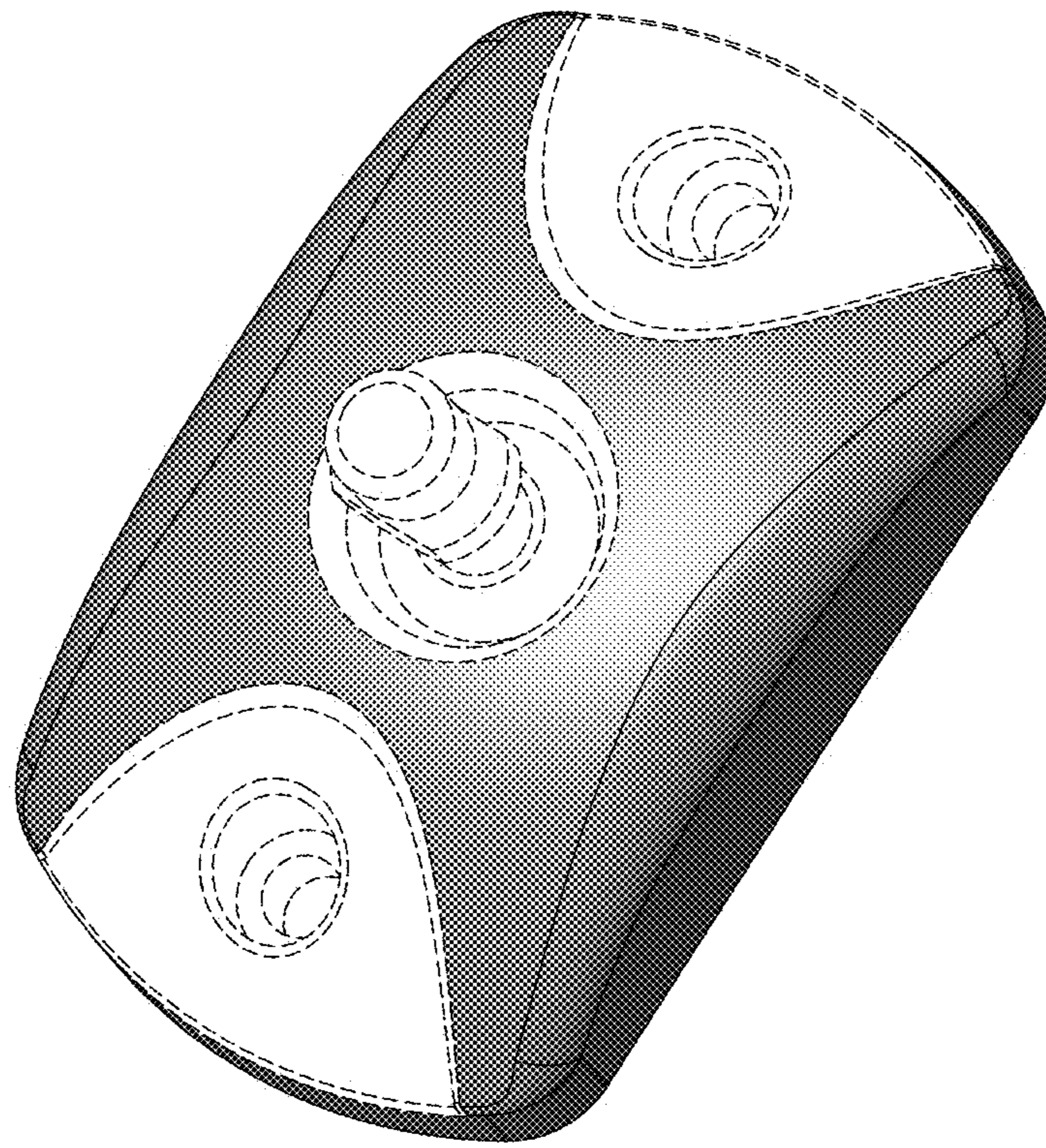


Fig. 2

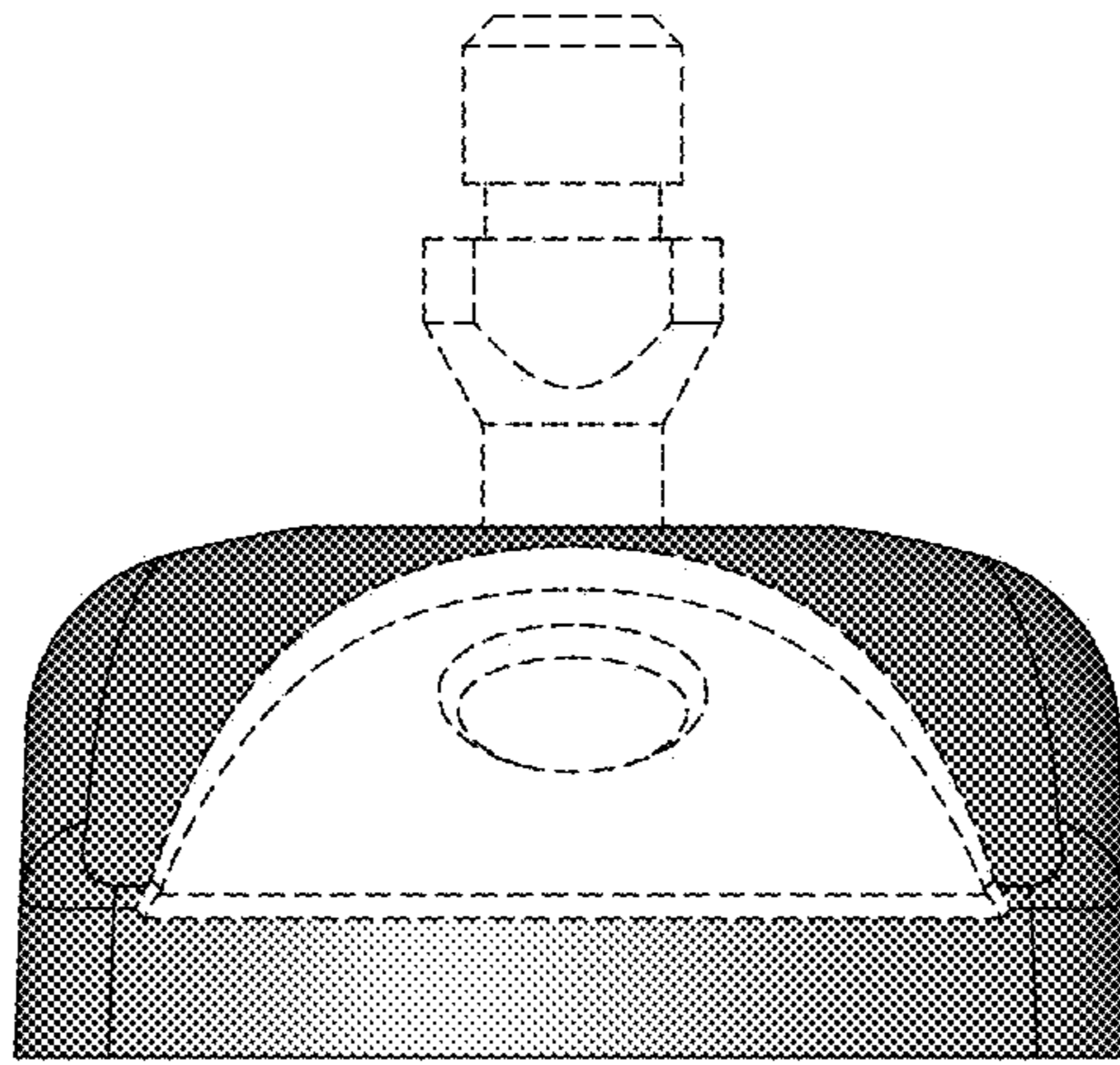


Fig. 3

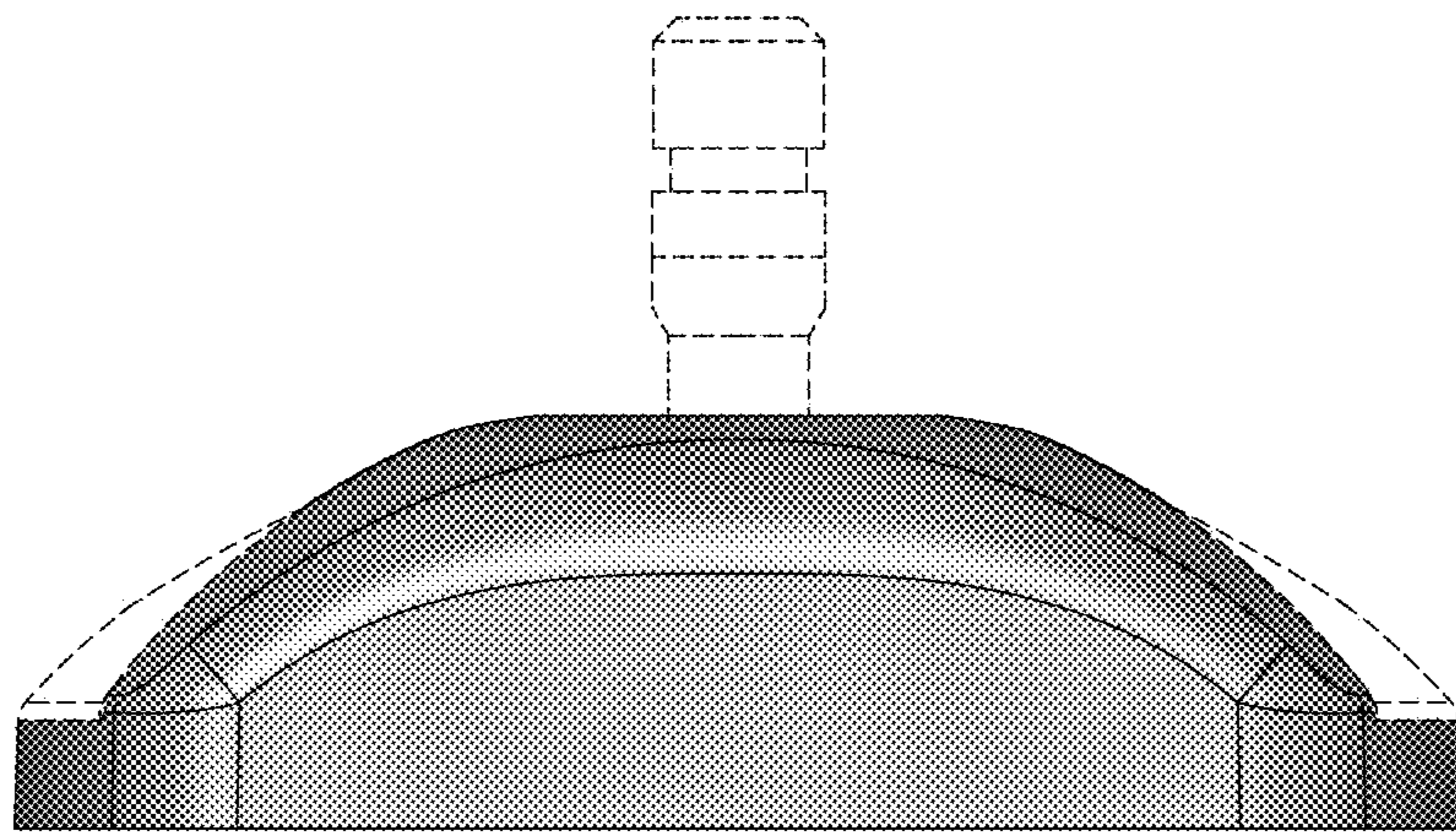


Fig. 4

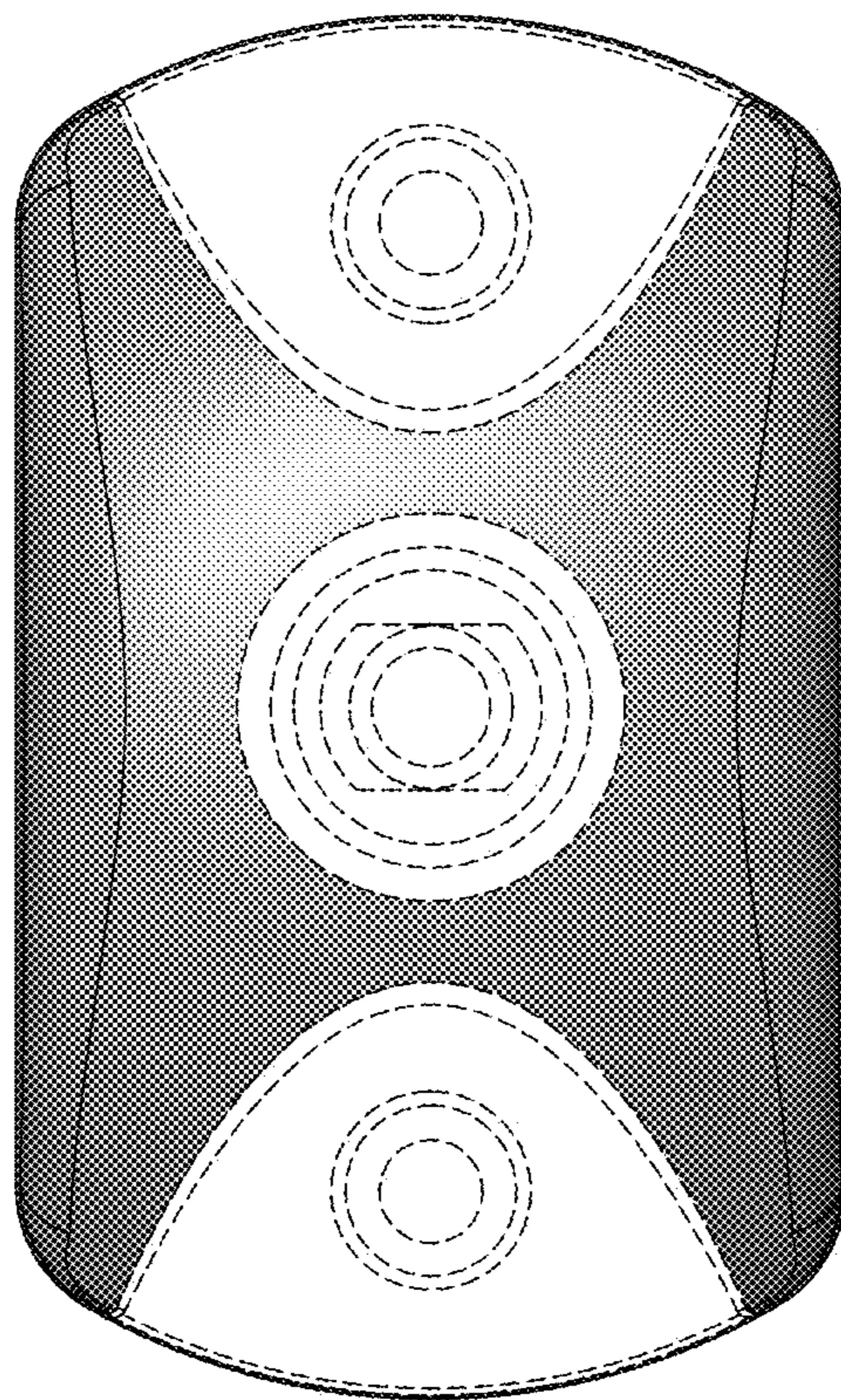


Fig. 5

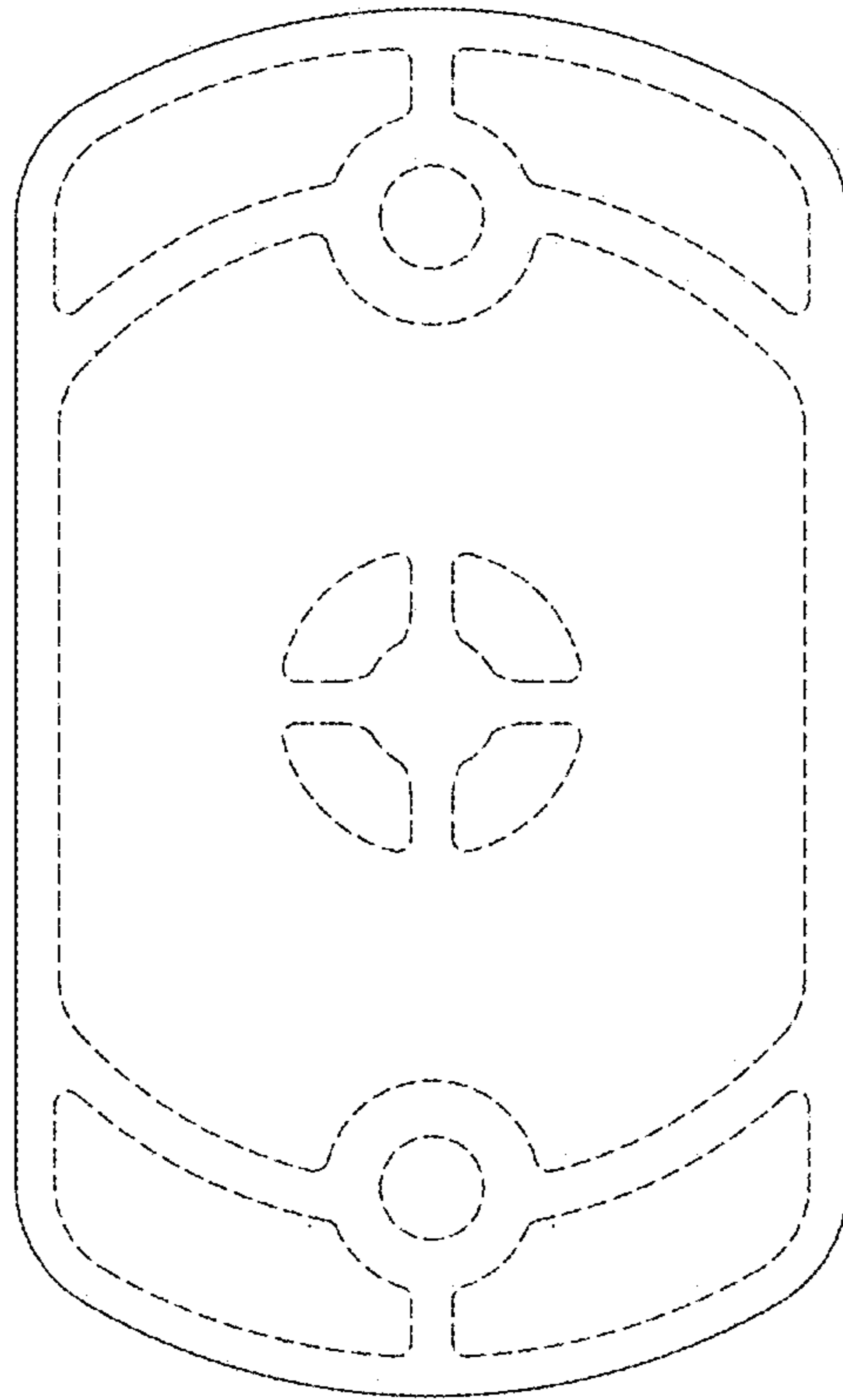


Fig. 6