



US00D760228S

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

(10) **Patent No.:** **US D760,228 S**
(45) **Date of Patent:** **** Jun. 28, 2016**

(54) **MULTI-DIRECTIONAL INPUT APPARATUS**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **HOSIDEN CORPORATION**, Yao-shi (JP)

WO WO 2008138493 A1 * 11/2008 G05G 9/04792

(72) Inventor: **Mitsuhiro Asano**, Yao (JP)

OTHER PUBLICATIONS

(73) Assignee: **HOSIDEN CORPORATION**, Yao-shi (JP)

Subminiature Joystick—Model 802. p3america.com. [online] 3 pages Uploaded as early as Jun. 2, 2010 [retrieved on Feb. 12, 2016]. Retrieved from Internet: <http://www.p3america.com/pp/pdfs/802.PDF>.*

(**) Term: **14 Years**

Primary Examiner — Susan Bennett Hattan

Assistant Examiner — Marie Fast Horse

(21) Appl. No.: **29/504,643**

(74) *Attorney, Agent, or Firm* — Kratz, Quintos & Hanson, LLP

(22) Filed: **Oct. 8, 2014**

(57) **CLAIM**

The ornamental design for a multi-directional input apparatus, as shown and described.

DESCRIPTION

(30) **Foreign Application Priority Data**

Apr. 14, 2014 (JP) 2014-008068

(51) **LOC (10) Cl.** **14-02**

(52) **U.S. Cl.**
USPC **D14/412**

(58) **Field of Classification Search**

USPC D14/412–416, 419, 356, 388, 389, 399,
D14/400, 402, 408, 432, 433, 439, 454, 299,
D14/218, 496, 511; D21/324, 333, 566;
D13/164, 169, 170, 171, 173, 174,
D13/175; 200/18; 474/471 XY; 74/489,
74/502.2, 523, 551.8, 551.9

CPC G05G 2009/04751; G05G 2009/04777;
G05G 2009/04744; G05G 5/05; G05G 9/047;
Y10T 74/20201

See application file for complete search history.

FIG. 1 is a front elevational view of the multi-directional input apparatus according to the claimed design;

FIG. 2 is a back elevational view thereof;

FIG. 3 is a top plan view thereof;

FIG. 4 is a bottom plan view thereof;

FIG. 5 is a right side elevational view thereof;

FIG. 6 is a left side elevational view thereof;

FIG. 7 is a top, front, and right side perspective view thereof;

FIG. 8 is a top, back, and left side perspective view thereof;

FIG. 9 is a bottom, front, and right side perspective view thereof;

FIG. 10 is a bottom, back, and left side perspective view thereof;

FIG. 11: is a front elevational view thereof; with the operation part in a downward pressed position of use;

FIG. 12: is a front elevational view of the design shown in FIG. 1, with the operation part in a rightward tilt position of use; and,

FIG. 13: is a top plan view of the design shown in FIG. 1, with the operation part in a rightward tilt position of use.

The broken lines are included for the purpose of illustrating environmental structures and form no part of the claimed design. The dot-dash broken lines define the boundaries of the claimed design and form no part of the claimed design.

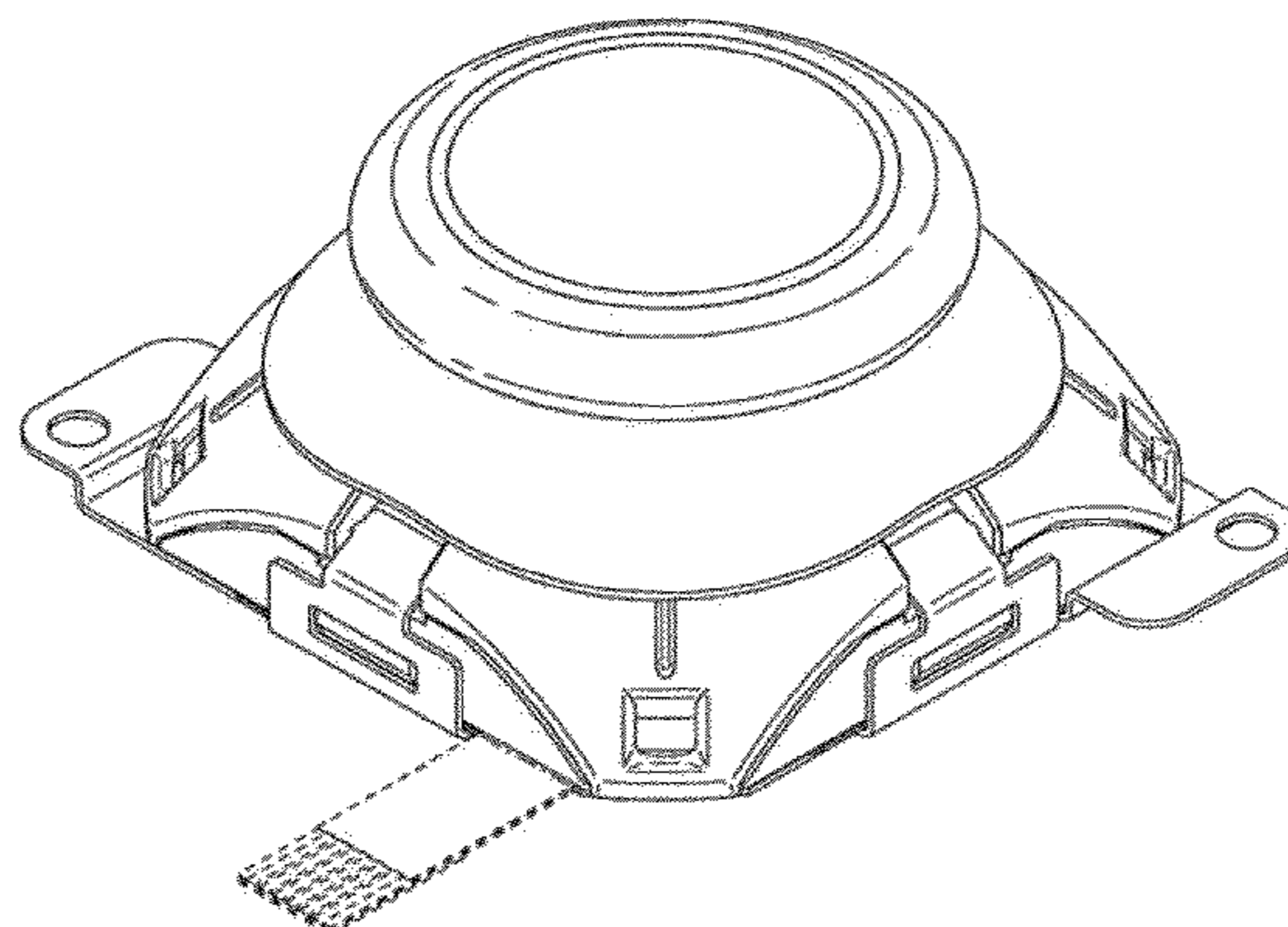
(56) **References Cited**

U.S. PATENT DOCUMENTS

4,555,960 A * 12/1985 King G05G 9/047
200/6 A
D299,141 S * 12/1988 Louis D14/388

(Continued)

1 Claim, 13 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,107,583	A *	8/2000	Berfield	.....	H01H 23/143 200/302.2
6,348,664	B2 *	2/2002	Kozuma	.....	200/6 A
6,509,535	B2 *	1/2003	Nakamura	.....	G05G 9/047 200/335
6,589,118	B1 *	7/2003	Soma	.....	A63F 13/06 463/37
6,644,141	B2 *	11/2003	Oikarinen	.....	G05G 9/047 188/333
D584,312	S *	1/2009	Bishop	.....	D14/412
D678,284	S *	3/2013	Coulter	.....	D14/412
D679,276	S *	4/2013	Coulter	.....	D14/412
D692,003	S *	10/2013	Coulter	.....	D14/412
D693,346	S *	11/2013	Coulter	.....	D14/412
D707,758	S *	6/2014	Norman	.....	D14/401
D737,273	S *	8/2015	Schoenith	.....	D14/401
D741,952	S *	10/2015	Nokuo	.....	D14/401
2002/0104743	A1 *	8/2002	Niiyama	.....	H01H 25/002 200/18
2005/0124416	A1 *	6/2005	Hammond	.....	A63F 13/06 463/37
2005/0259073	A1 *	11/2005	Hirano	.....	G06F 3/0338 345/157
2012/0188694	A1 *	7/2012	Sakakibara	.....	G06F 1/1626 361/679.01
2013/0120258	A1 *	5/2013	Maus	.....	G06F 3/044 345/161
2013/0161163	A1 *	6/2013	Nakamura	.....	H01H 15/02 200/16 R
2014/0125634	A1 *	5/2014	Yokokawa	.....	G06F 3/011 345/175
2014/0274208	A1 *	9/2014	Baschnagel	.....	H02J 7/0044 455/557
2015/0018101	A1 *	1/2015	Schoenith	.....	A63F 13/98 463/37
2015/0185757	A1 *	7/2015	Jantke	.....	G05G 9/04792 74/471 XY
2015/0198964	A1 *	7/2015	Asano	.....	G05G 9/047 74/471 XY

* cited by examiner

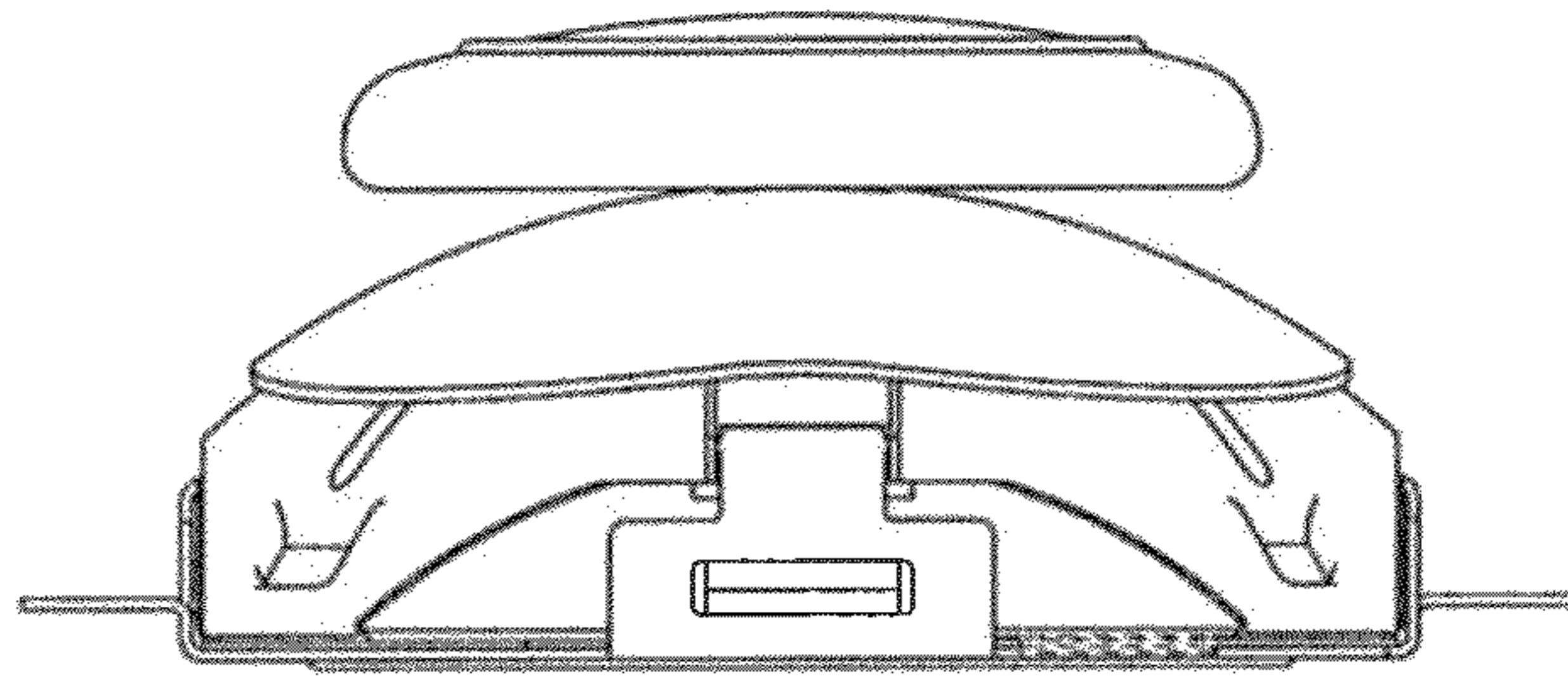


Fig.1

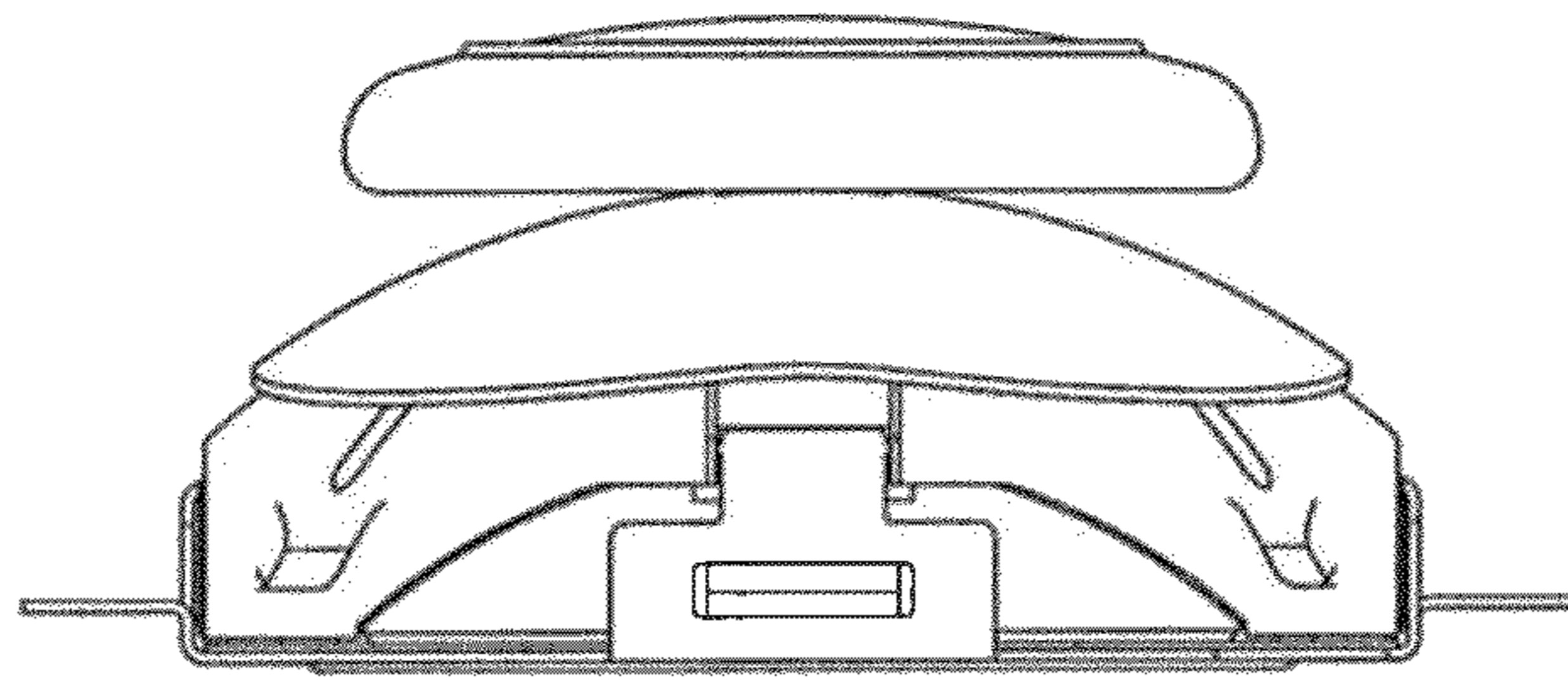


Fig.2

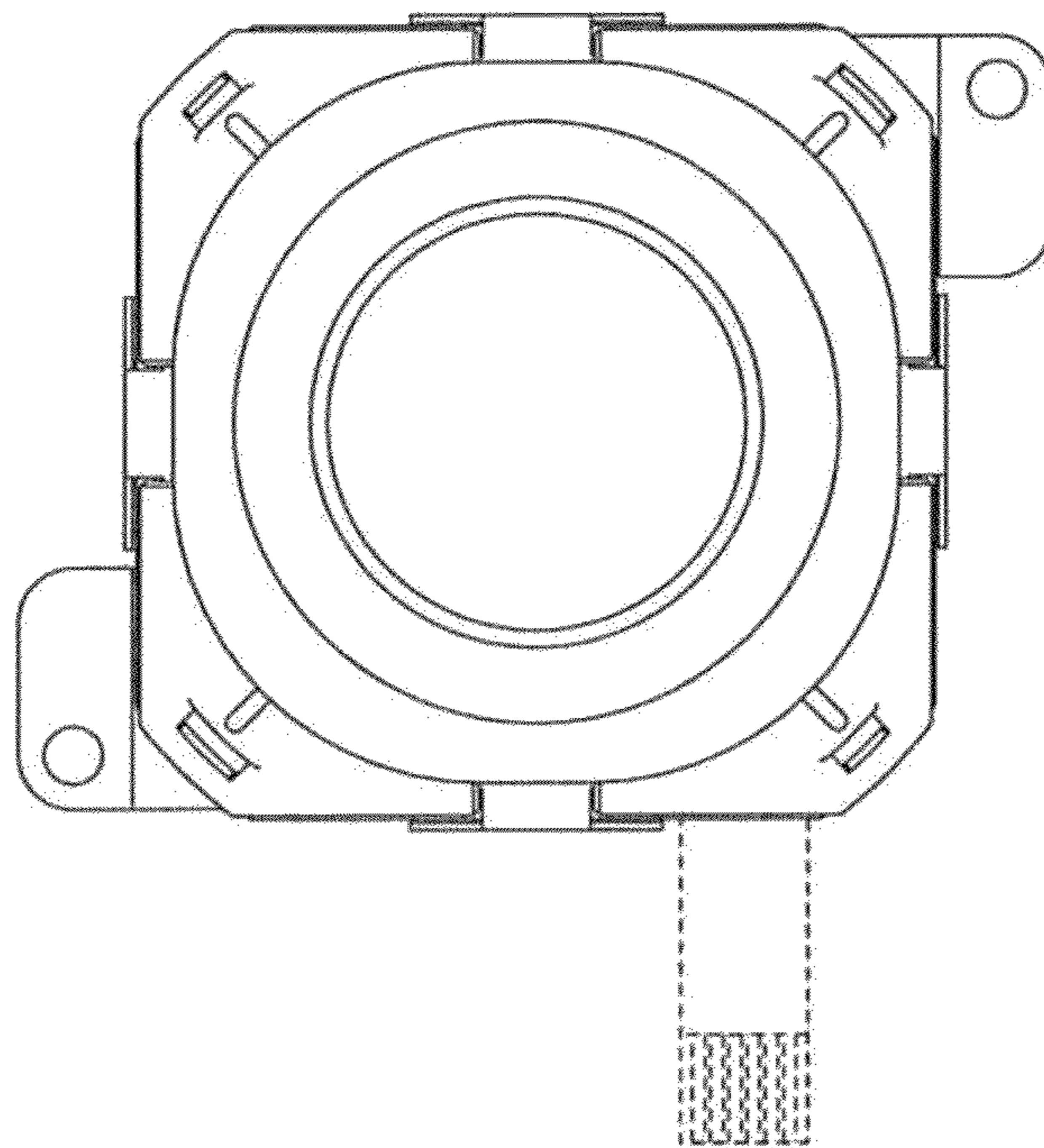


Fig.3

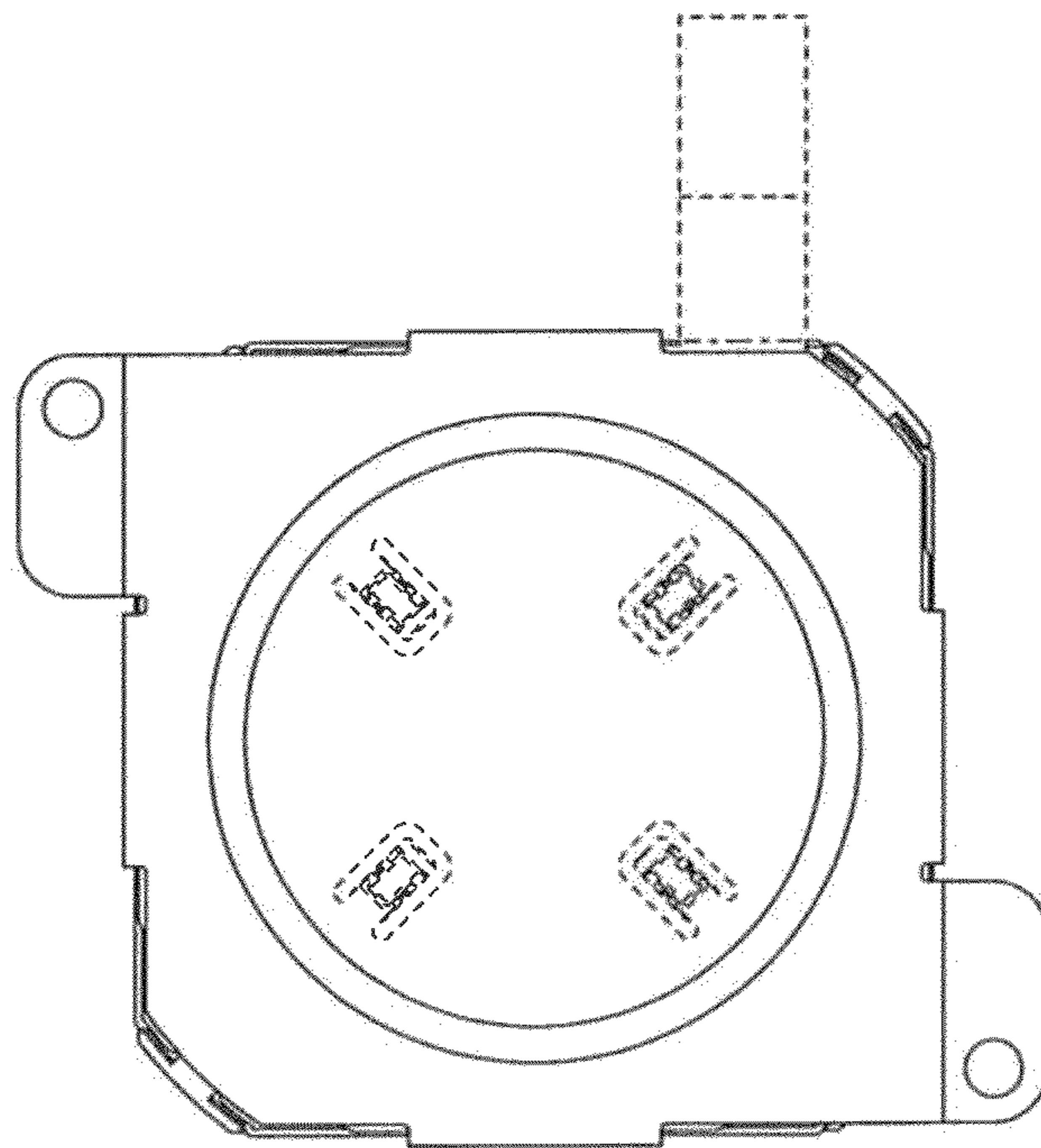


Fig.4

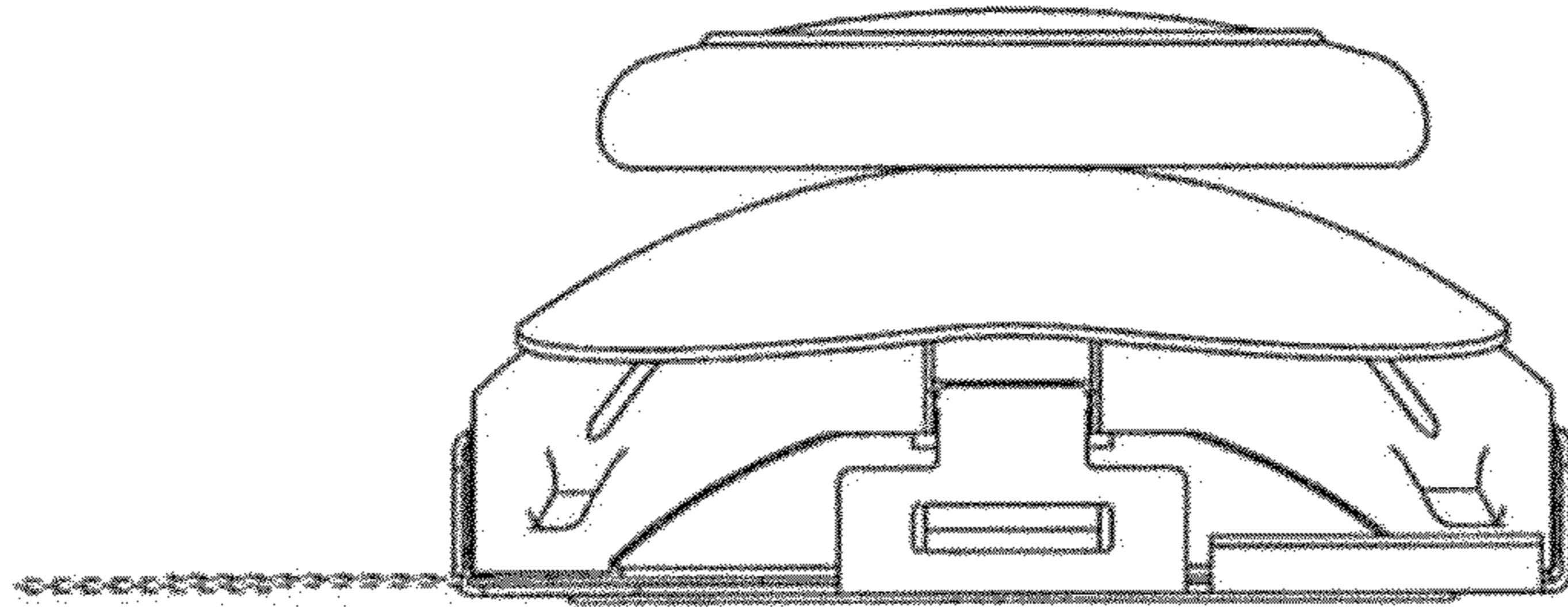


Fig.5

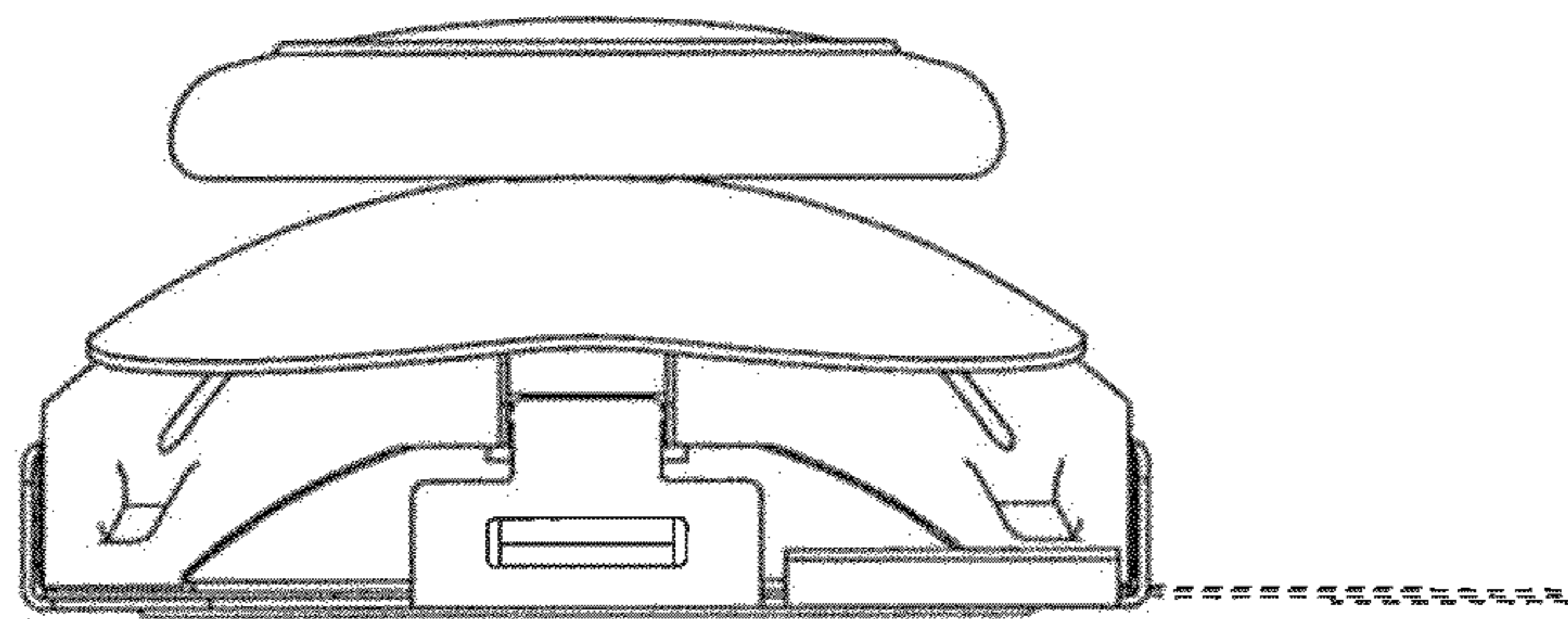


Fig.6

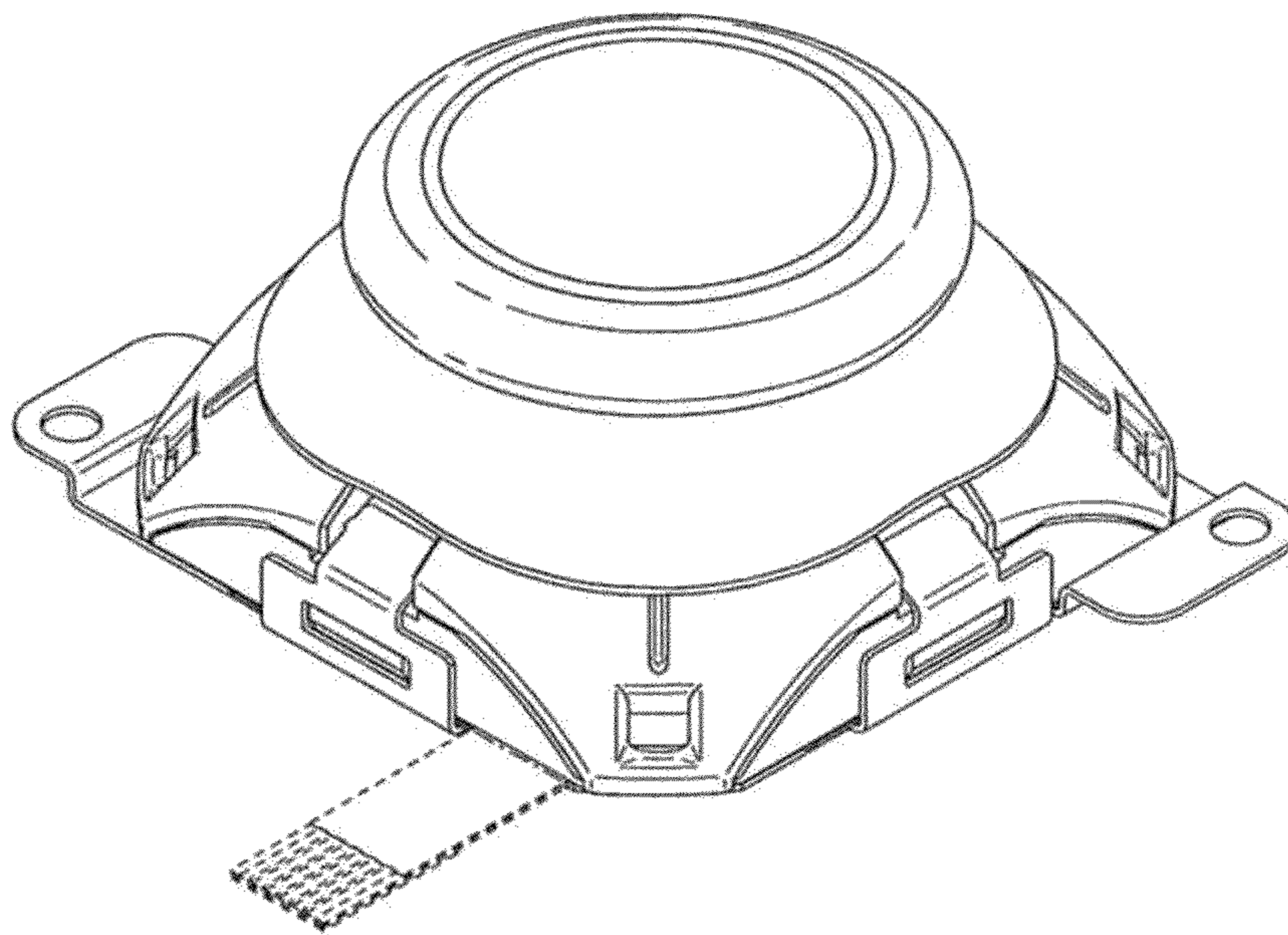


Fig.7

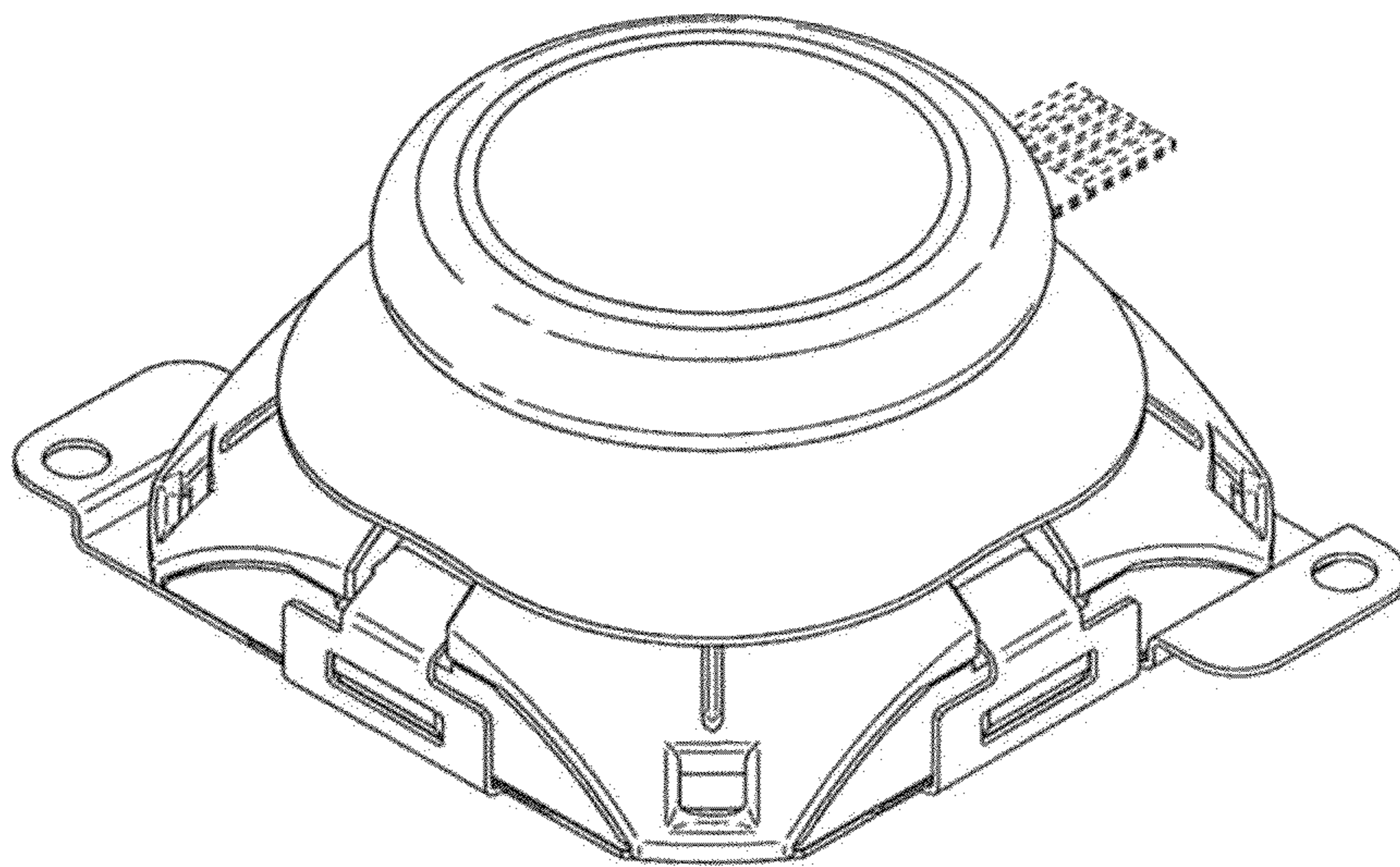


Fig.8

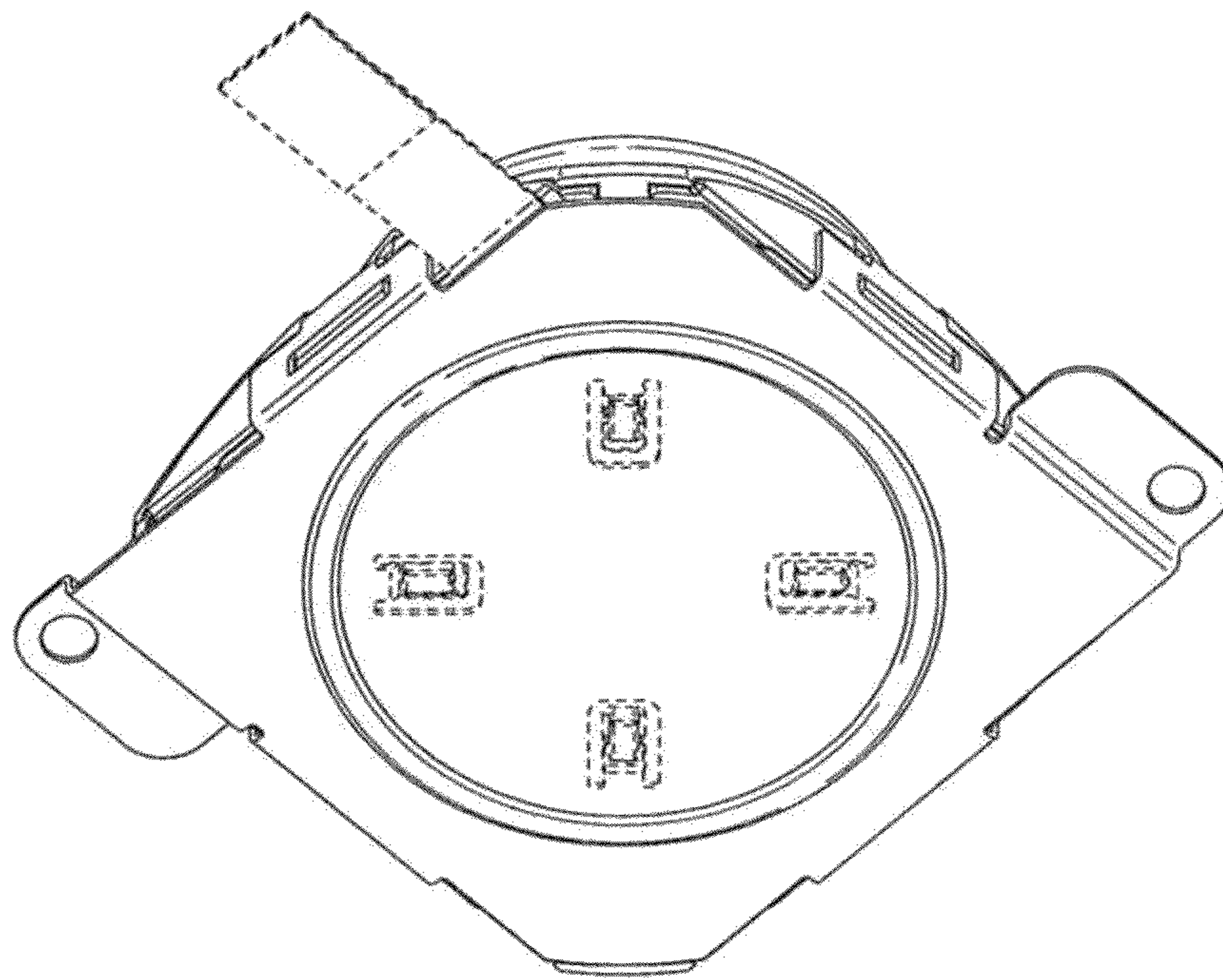


Fig.9

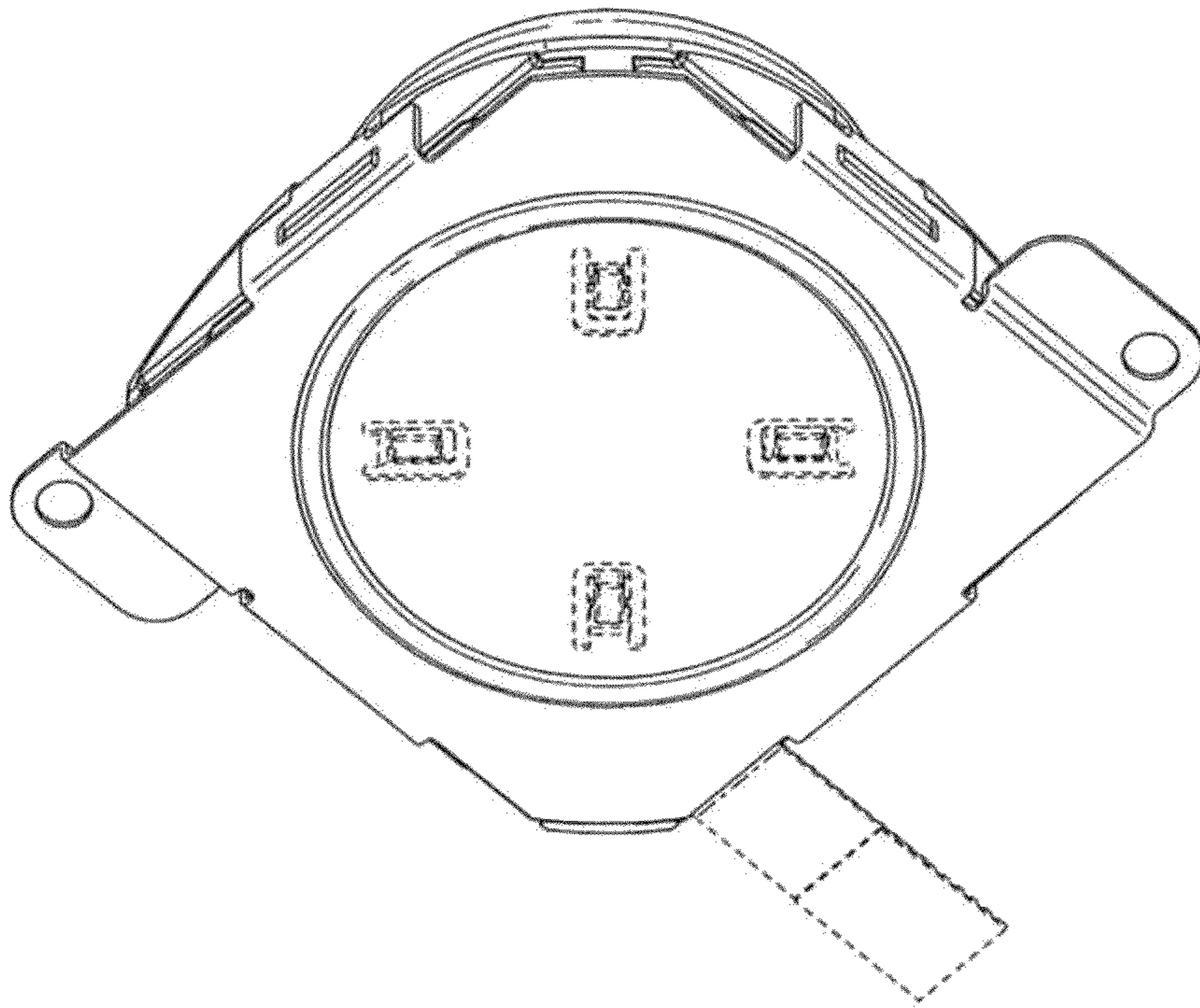


Fig.10

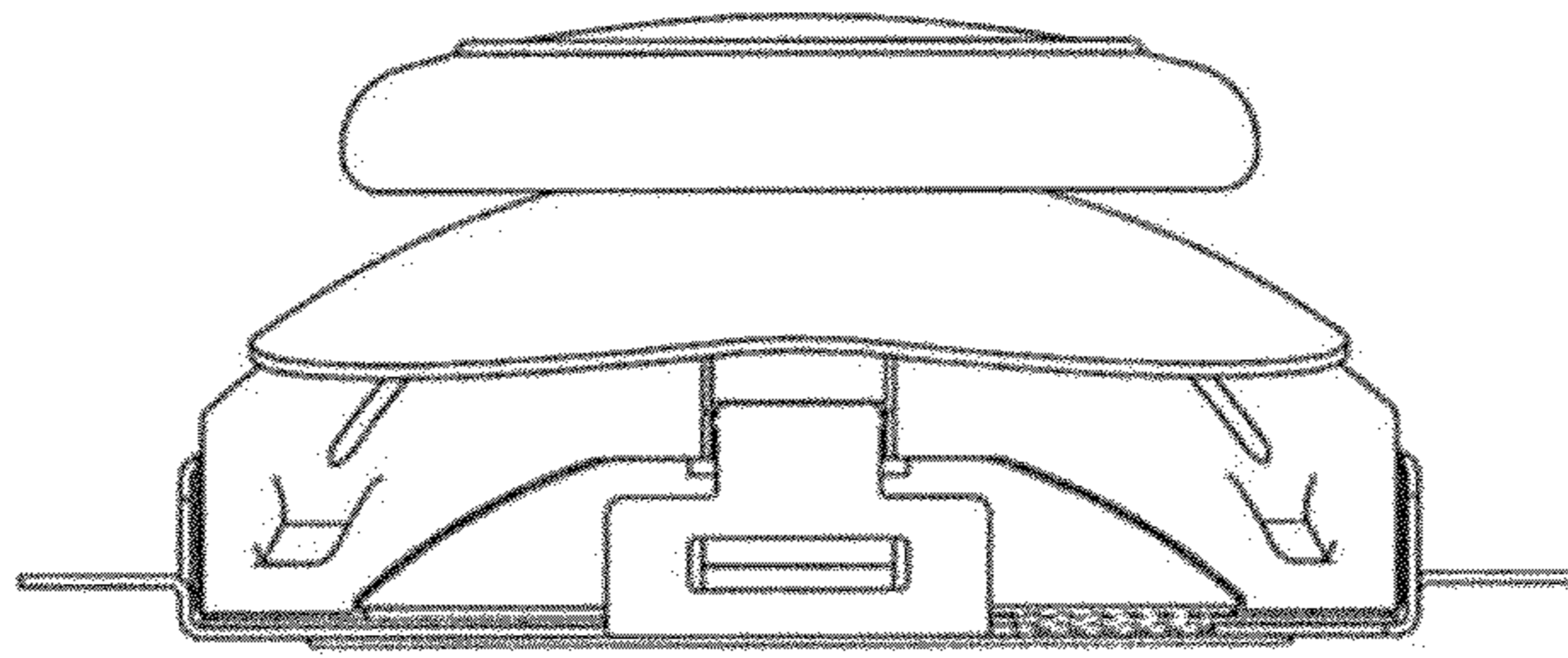


Fig.11

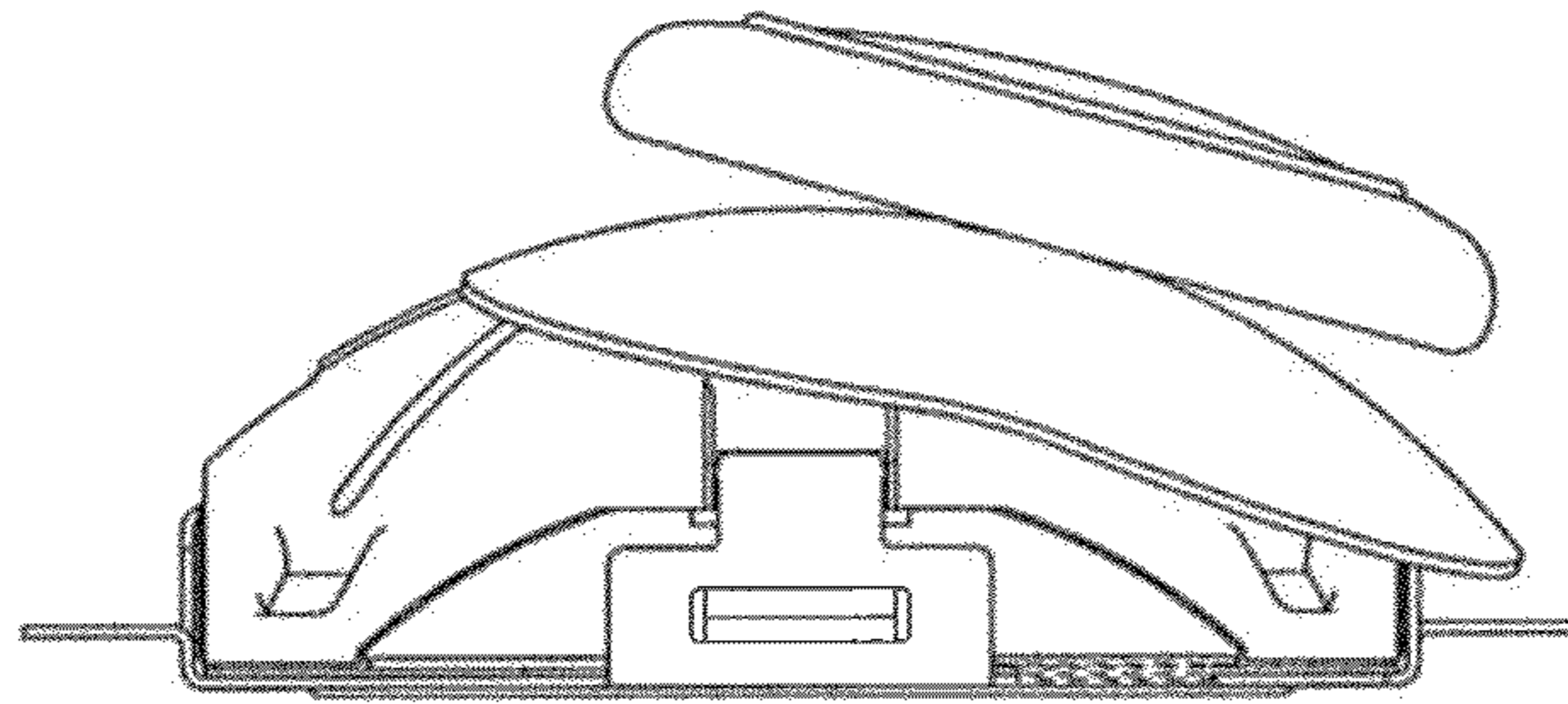


Fig.12

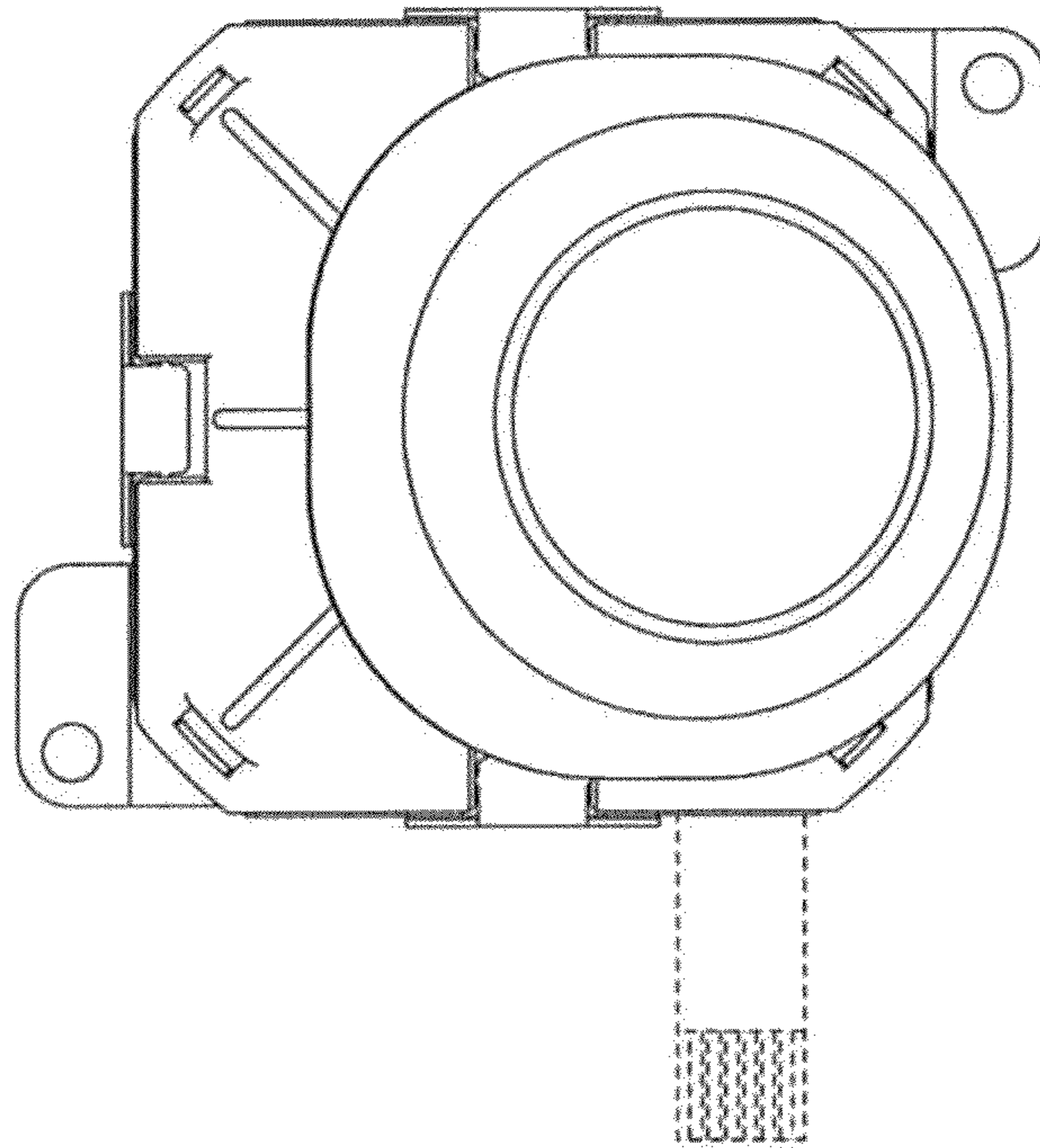


Fig.13