



US00D877095S

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

(10) **Patent No.:** **US D877,095 S**
(45) **Date of Patent:** **** Mar. 3, 2020**

(54) **CONTACT SPRING FOR ELECTRICAL SWITCH**

(71) Applicant: **Panasonic Intellectual Property Management Co., Ltd.**, Osaka-shi, Osaka (JP)

(72) Inventor: **Ryosuke Nakao**, Okayama (JP)

(73) Assignee: **Panasonic Intellectual Property Management Co., Ltd.**, Osaka (JP)

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

(21) Appl. No.: **29/659,977**

(22) Filed: **Aug. 14, 2018**

(30) **Foreign Application Priority Data**

Mar. 6, 2018 (JP) 2018-004652

(51) **LOC (12) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/173**

(58) **Field of Classification Search**
USPC D13/173, 199; D8/20; D24/146
CPC ... F16F 1/00; F16F 1/322; H01H 5/18; H01H 5/30; H01H 13/14; H01H 13/48; H01H 2215/004

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,822,959 A * 4/1989 Schwab H01H 13/48
200/290
- 6,369,692 B1 * 4/2002 Van Zeeland G06F 3/0338
200/6 R
- D563,328 S * 3/2008 Sano D13/173
- 7,354,032 B2 * 4/2008 Buchhagen F16F 1/324
267/160
- D600,655 S 9/2009 Miyasaka et al.

- 8,960,655 B2 * 2/2015 Wood F16F 1/027
267/159
- 9,633,800 B1 * 4/2017 Tsai H01H 13/14
D802,544 S 11/2017 Goto et al.
- 10,304,641 B2 * 5/2019 Watanabe H01H 13/48
- 2006/0278011 A1 * 12/2006 Miyasaka G06F 3/0338
73/753
- 2009/0200147 A1 * 8/2009 Watanabe H01H 13/023
200/406
- 2012/0039026 A1 * 2/2012 Dai H01H 13/14
361/679.01

(Continued)

FOREIGN PATENT DOCUMENTS

- JP D1428088 11/2011
- JP D1428459 11/2011

(Continued)

Primary Examiner — Selina Sikder

(74) *Attorney, Agent, or Firm* — Brinks Gilson & Lione

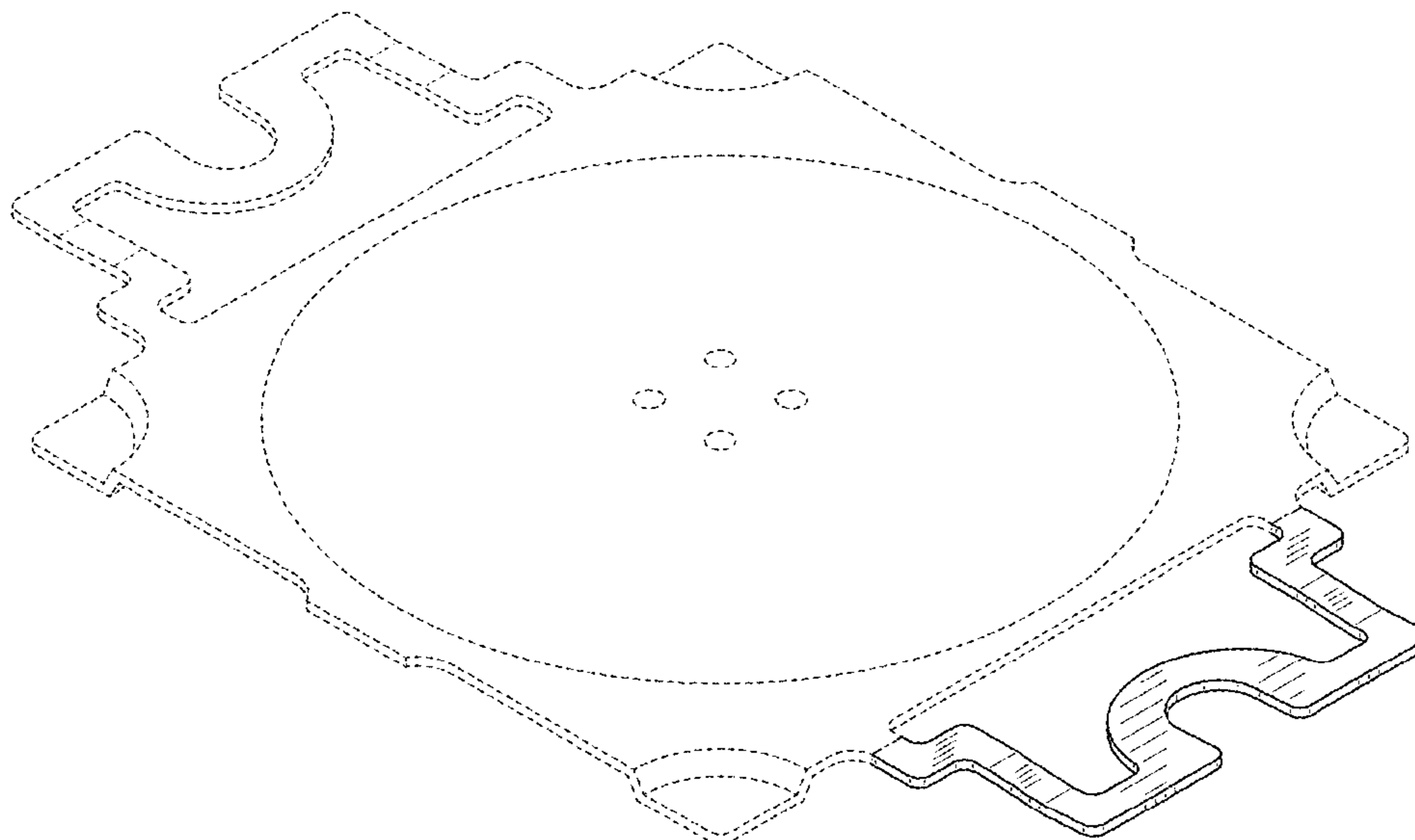
(57) **CLAIM**

I claim the ornamental design for a contact spring for electrical switch, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a contact spring for electrical switch according to the present invention;
 FIG. 2 is a front view thereof;
 FIG. 3 is a rear view thereof;
 FIG. 4 is a left side view thereof;
 FIG. 5 is a right side view thereof;
 FIG. 6 is a top view thereof;
 FIG. 7 is a bottom view thereof; and,
 FIG. 8 is a side view showing the portion of the contact spring for electrical switch defined by lines 8-8 in FIG. 6.
 The broken lines show parts of the contact spring for electrical switch that represent unclaimed subject matter and form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2016/0064158 A1* 3/2016 Nakase H01H 13/14
200/275
2018/0025860 A1* 1/2018 Wakuda H01H 13/14
200/341
2018/0108501 A1* 4/2018 Watanabe H01H 13/48
2018/0151313 A1* 5/2018 Yashima H01H 13/48
2019/0088422 A1* 3/2019 Thizon F16J 15/064

FOREIGN PATENT DOCUMENTS

JP D1477930 8/2013
JP D1542045 1/2016

* cited by examiner

FIG. 1

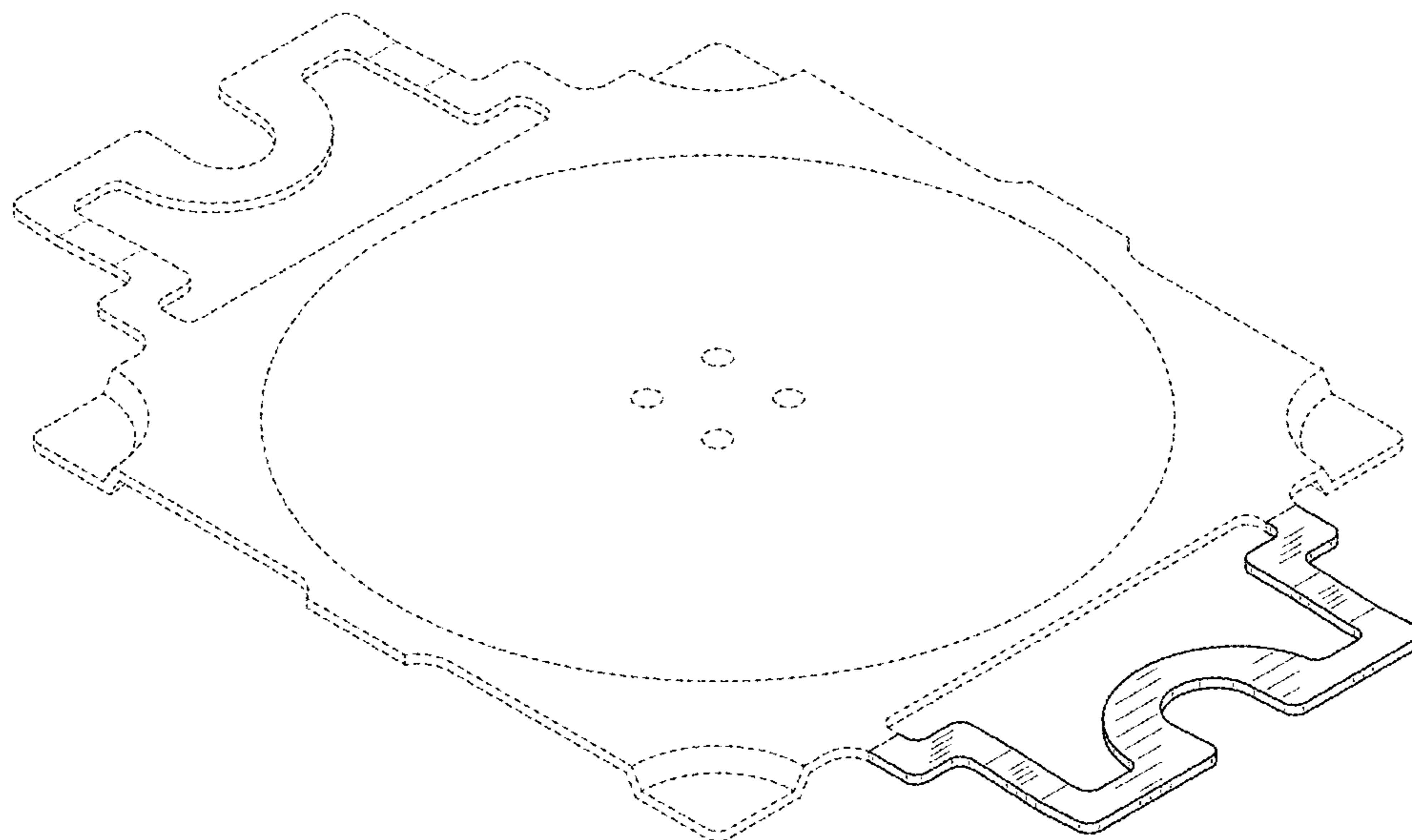


FIG. 2

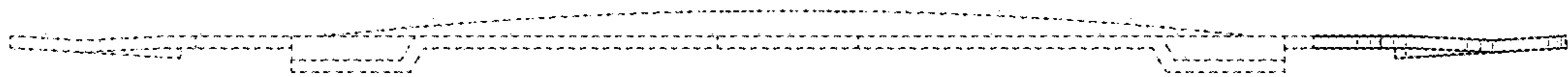


FIG. 3

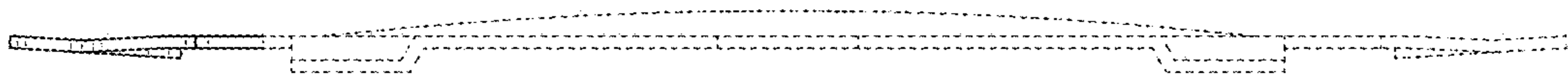


FIG. 4

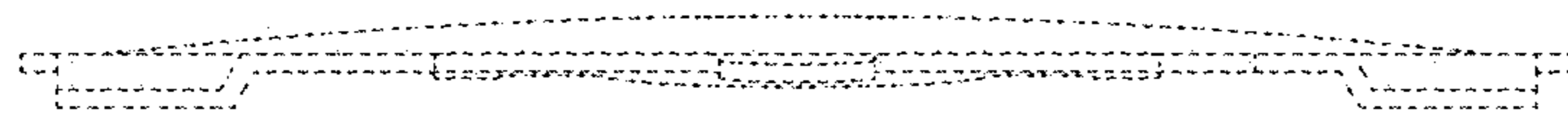


FIG. 5

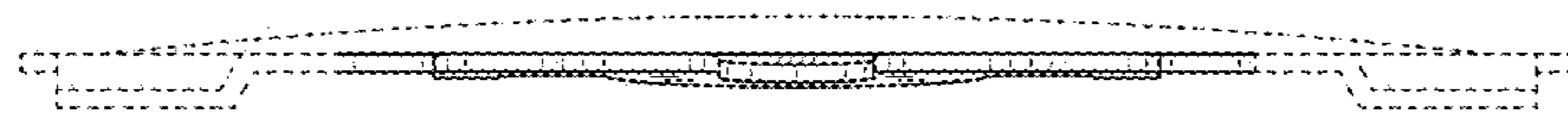


FIG. 6

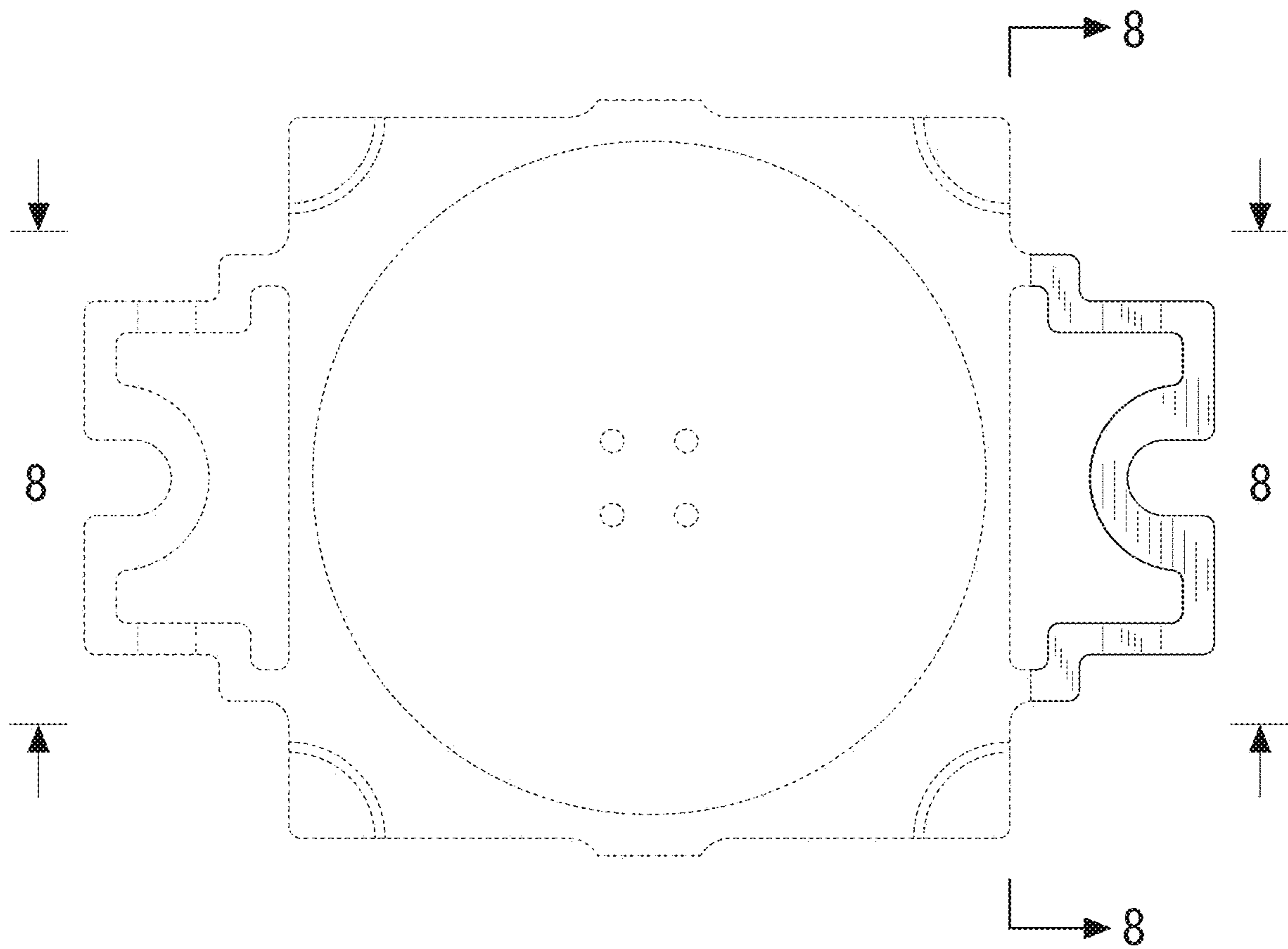


FIG. 7

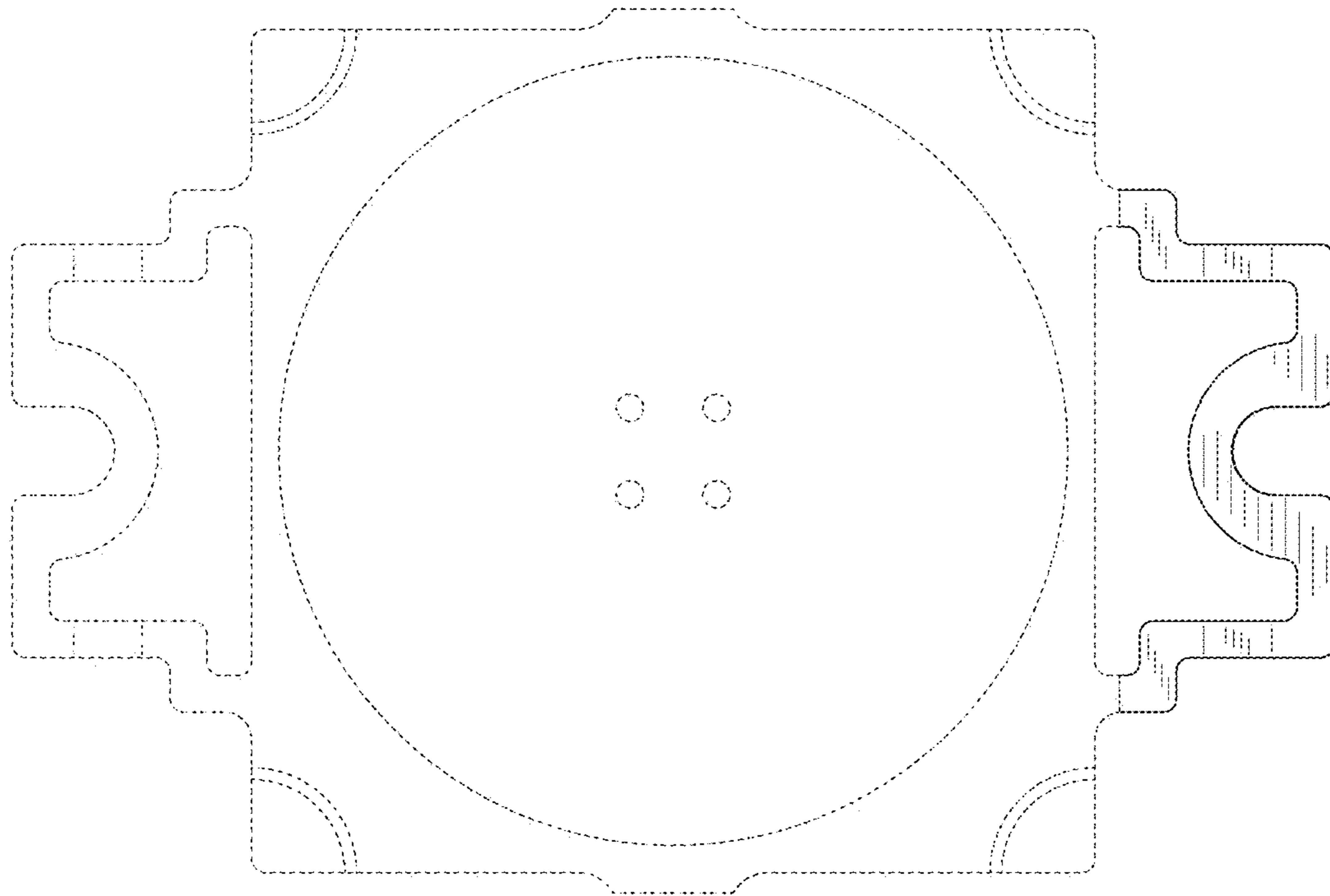


FIG. 8

