



US00D676000S

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

(10) **Patent No.:** **US D676,000 S**

(45) **Date of Patent:** **** *Feb. 12, 2013**

(54) **LIGHT EMITTING DEVICE PACKAGE**

(75) Inventors: **Christopher P. Hussell**, Cary, NC (US);
Peter Scott Andrews, Durham, NC
(US); **Jesse Colin Reiherzer**, Wake
Forest, NC (US)

(73) Assignee: **Cree, Inc.**, Durham, NC (US)

(*) Notice: This patent is subject to a terminal disclaimer.

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

(21) Appl. No.: **29/380,387**

(22) Filed: **Dec. 3, 2010**

Related U.S. Application Data

(63) Continuation-in-part of application No. 29/379,636,
filed on Nov. 22, 2010, now Pat. No. Des. 650,760.

(51) **LOC (9) Cl.** **13-03**

(52) **U.S. Cl.** **D13/180**

(58) **Field of Classification Search** D13/180;
D26/1, 2; 257/79, 80, 81, 88, 89, 95, 98,
257/99, 100, E33.058; 313/483, 498, 500;
362/555, 800

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | |
|-----------|------|---------|------------------|---------|
| 34,861 | A | 4/1862 | Knowlton et al. | |
| 4,946,547 | A | 8/1990 | Palmour | |
| 5,200,022 | A | 4/1993 | Kong | |
| 7,224,000 | B2 * | 5/2007 | Aanegola et al. | 257/98 |
| D570,797 | S * | 6/2008 | Song | D13/180 |
| D573,553 | S | 7/2008 | Uemoto et al. | |
| D576,576 | S | 9/2008 | Shida et al. | |
| 7,482,636 | B2 | 1/2009 | Murayama et al. | |
| D589,470 | S | 3/2009 | Chen | |
| D591,248 | S * | 4/2009 | Imai et al. | D13/180 |
| D593,043 | S | 5/2009 | Song | |
| D602,451 | S | 10/2009 | Gielen | |
| D603,813 | S | 11/2009 | Nishimura et al. | |
| D607,420 | S * | 1/2010 | Imai et al. | D13/180 |

| | | | | |
|--------------|------|---------|------------------|---------|
| 7,649,209 | B2 | 1/2010 | Hussell et al. | |
| D615,052 | S | 5/2010 | Imai et al. | |
| D618,635 | S * | 6/2010 | Imai et al. | D13/180 |
| 7,825,578 | B2 | 11/2010 | Takashima et al. | |
| 7,872,418 | B2 | 1/2011 | Hata et al. | |
| D637,564 | S | 5/2011 | Tseng et al. | |
| D645,417 | S * | 9/2011 | Imai et al. | D13/180 |
| D650,760 | S * | 12/2011 | Hussell et al. | D13/180 |
| 2004/0196663 | A1 * | 10/2004 | Ishida et al. | 362/539 |
| 2006/0186418 | A1 | 8/2006 | Edmond | |
| 2007/0018295 | A1 * | 1/2007 | Kim et al. | 257/678 |
| 2007/0029569 | A1 | 2/2007 | Andrews | |
| 2008/0054279 | A1 | 3/2008 | Hussell et al. | |

(Continued)

FOREIGN PATENT DOCUMENTS

| | | |
|----|-------------|---------|
| JP | 10-311937 | 11/1998 |
| JP | 2001-294083 | 10/2001 |

(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 13/104,558 for "Light Emitting Devices and Methods" filed May 10, 2011.

(Continued)

Primary Examiner — Selina Sikder

(74) *Attorney, Agent, or Firm* — Jenkins, Wilson, Taylor & Hunt, P.A.

(57) **CLAIM**

The ornamental design for a light emitting device package, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a light emitting device package showing our design;

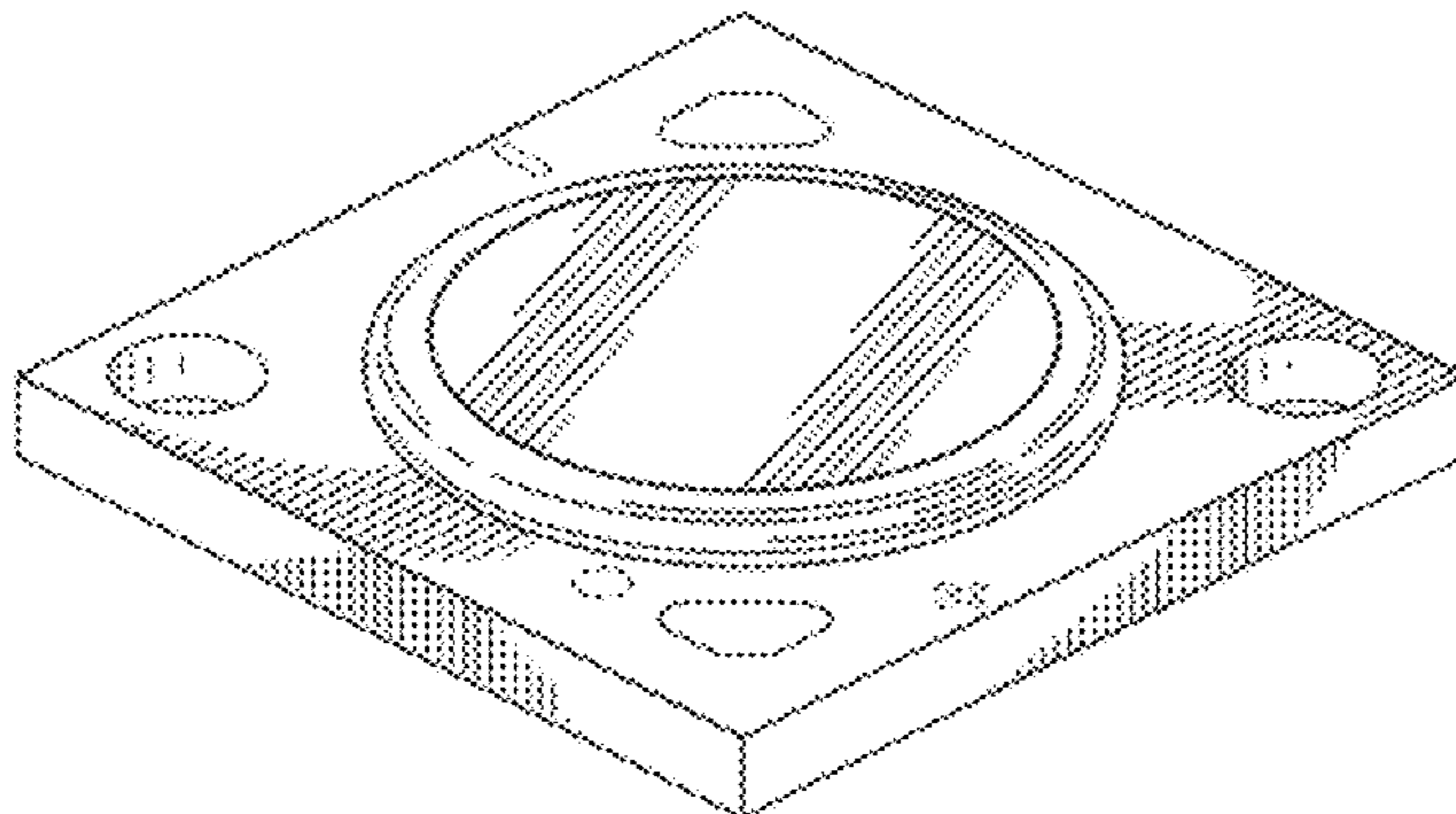
FIG. 2 is a top view thereof;

FIG. 3 is a side view thereof, the opposing and adjacent sides being mirror images of that shown; and,

FIG. 4 is a bottom view thereof.

The dashed broken lines are for illustrative purpose only and form no part of the claimed design.

1 Claim, 3 Drawing Sheets



U.S. PATENT DOCUMENTS

2008/0054284 A1 3/2008 Hussell et al.
2008/0054286 A1* 3/2008 Loh et al. 257/98
2008/0224166 A1 9/2008 Glovatsky et al.
2008/0258130 A1 10/2008 Bergmann
2009/0261374 A1 10/2009 Hayashi
2010/0078664 A1 4/2010 Helbing
2010/0141182 A1 6/2010 Shi
2010/0253248 A1 10/2010 Shi
2010/0320483 A1* 12/2010 Kadotani et al. 257/88
2011/0291151 A1* 12/2011 Matsuda et al. 257/99
2012/0126255 A1 5/2012 Hussell et al.
2012/0126257 A1 5/2012 Reiherzer et al.

FOREIGN PATENT DOCUMENTS

JP 2006-294898 10/2006
JP 2009-044055 2/2009
JP 2010-009972 1/2010
WO WO 2012/071139 5/2012

OTHER PUBLICATIONS

Bridgelux Product Data Sheet—1 page <http://www.bridgelux.com/products/ledarray.html> at least as early as Nov. 18, 2010.
Citizen Co. Product Data Sheet—http://ce.citizen.co.jp/lighting_led/en/products/index.html (4 pages) at least as early as Dec. 1, 2010.
U.S. Appl. No. 29/379,636 for “Light Emitting Device Package” filed Nov. 22, 2010.

U.S. Appl. No. 13/028,972 for “Light Emitting Devices and Methods” filed Feb. 16, 2011.
Notice of Allowance for U.S. Appl. No. 29/379,636 dated Aug. 4, 2011.
U.S. Appl. No. 29/404,913 for “Light Emitting Device Component” filed Oct. 26, 2011.
U.S. Appl. No. 13/224,850 for “Light Emitting Device Component” filed Sep. 2, 2011.
U.S. Appl. No. 29/379,636 for “Light Emitting Device Package” filed Nov. 22, 2011.
U.S. Appl. No. 29/408,955 for “Light Emitting Device Package” filed Dec. 19, 2011.
Notification of Granting Patent Right for Design for Application Serial No. CN 2011/30166527.9 dated Apr. 6, 2012.
Notification of Granting Patent Right for Design for Application Serial No. CN 2011/30139847.5 dated Apr. 26, 2012.
Notice of Allowance for U.S. Appl. No. 29/408,955 dated May 7, 2012.
Notice of Allowance for U.S. Appl. No. 29/407,084 dated May 18, 2012.
International Search Report and Written Opinion for Application Serial No. PCT/US2011/058603 dated May 23, 2012.
International Search Report and Written Opinion for Application Serial No. PCT/US2011/058601 dated May 24, 2012.

* cited by examiner

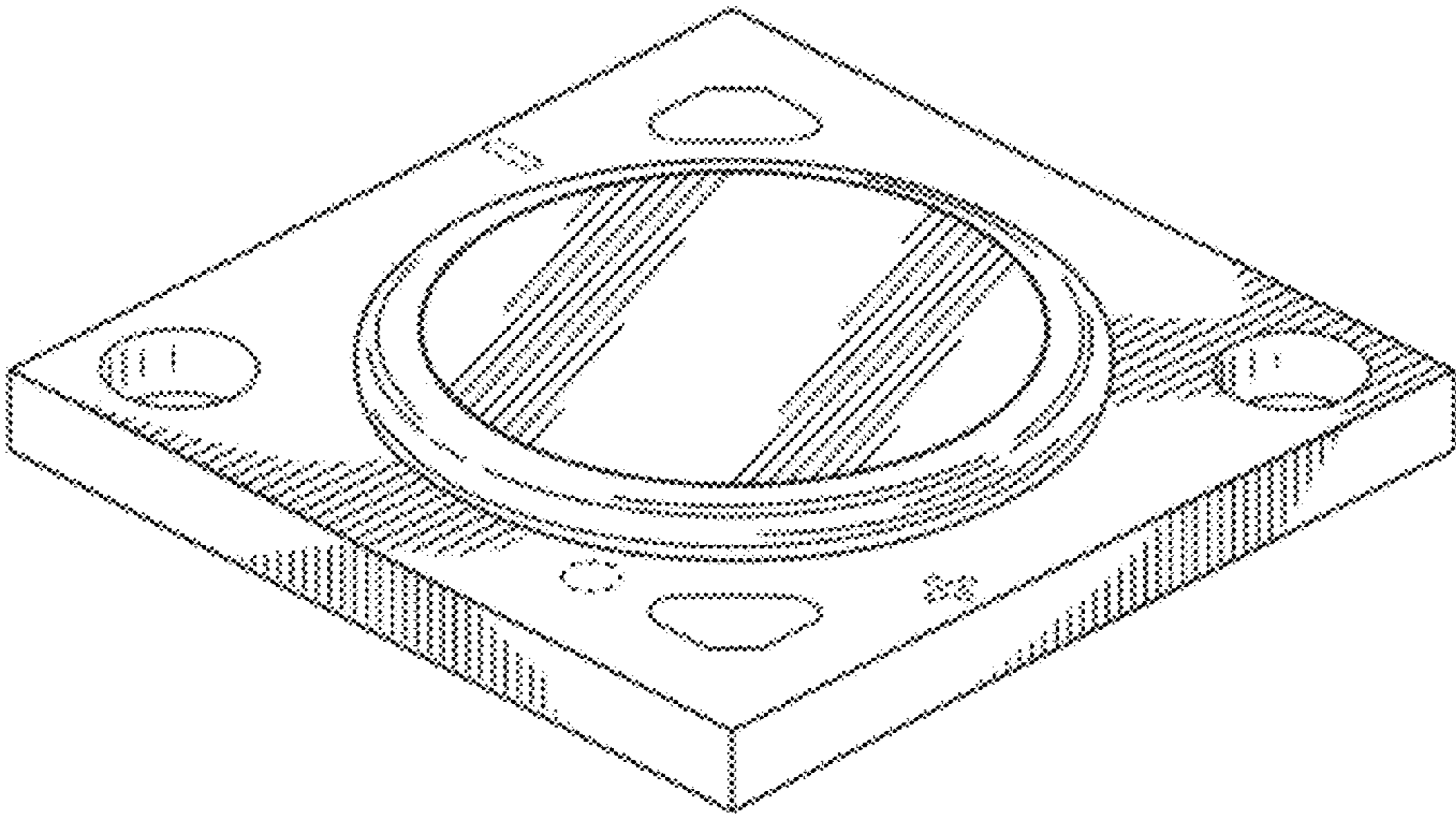


FIG. 1

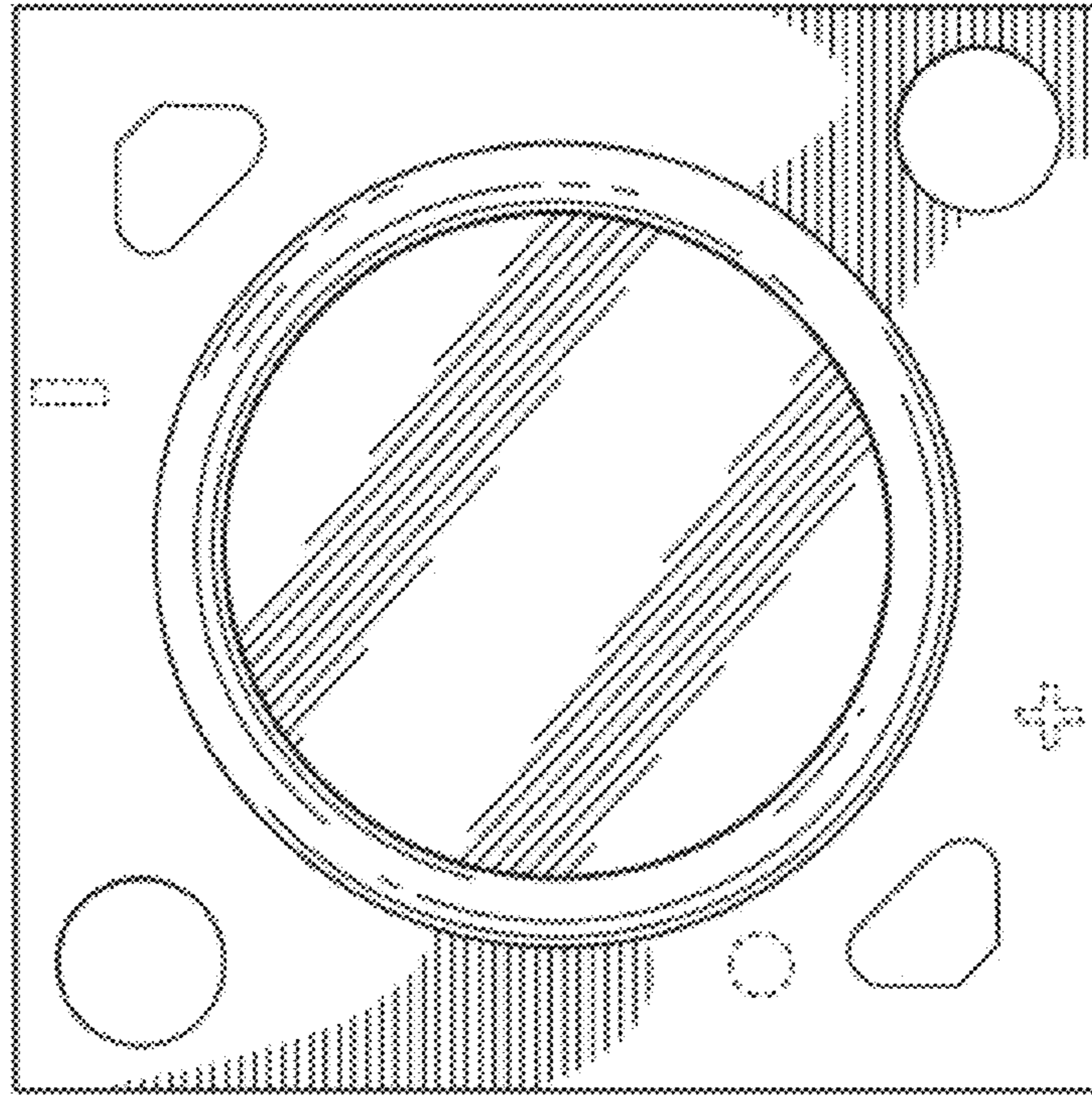


FIG. 2

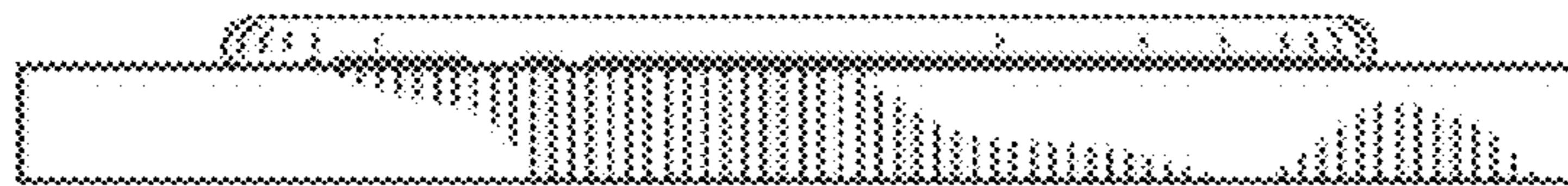


FIG. 3

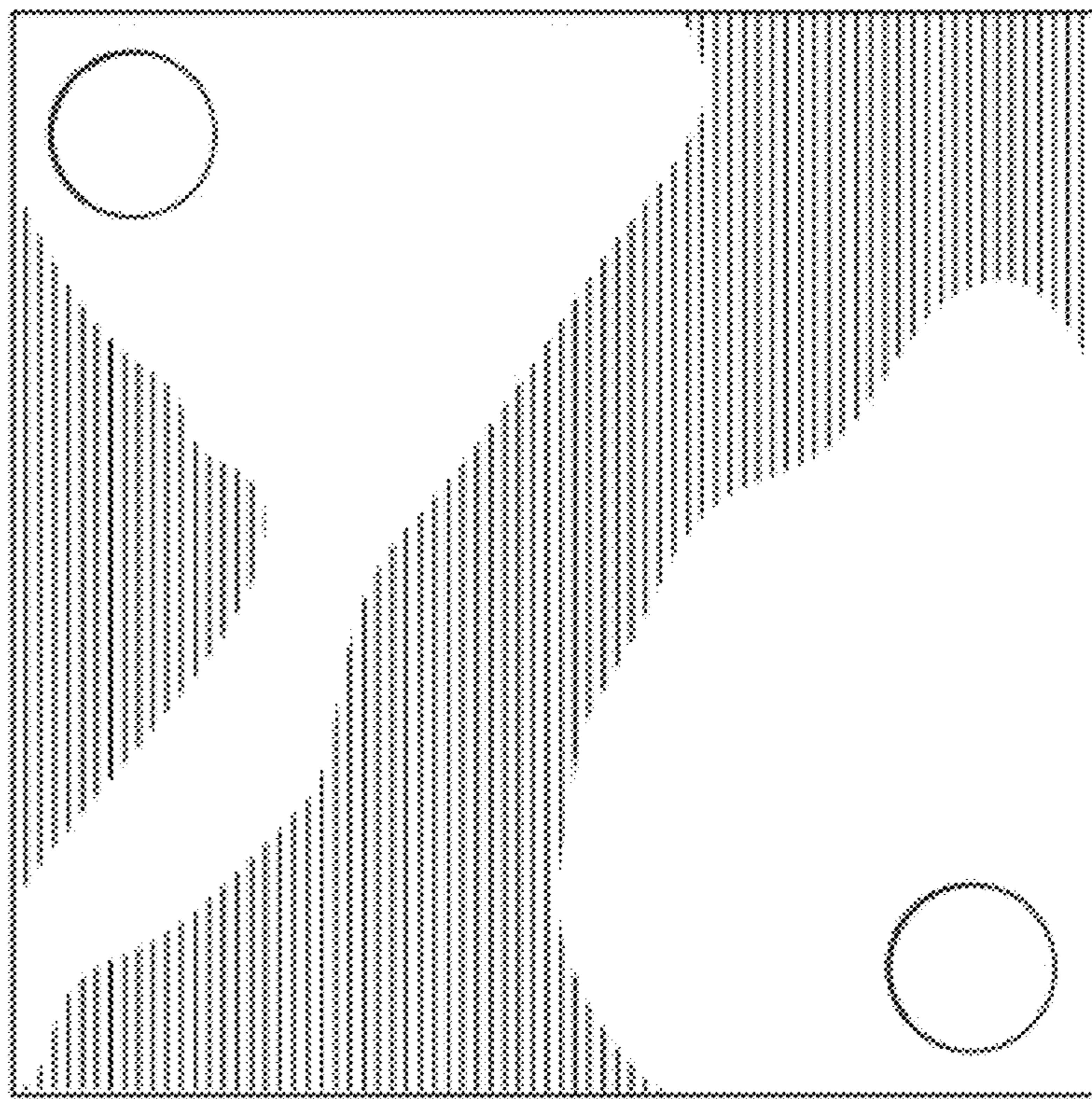


FIG. 4