US00D682224S

(12) United States Design Patent

Sasano et al.

(10) Patent No.: US D682,224 S
(45) Date of Patent: ** May 14, 2013

(54) **LIGHT EMITTING DIODE**

(75) Inventors: **Haruaki Sasano**, Tokushima (JP); **Satoshi Okada**, Anan (JP); **Satoshi Kinoshita**, Tokushima (JP); **Yuichi Okada**, Tokushima (JP); **Tatsuya Yanamoto**, Anan (JP)

(73) Assignee: **Nichia Corporation** (JP)

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

(21) Appl. No.: **29/381,611**

(22) Filed: **Dec. 21, 2010**

(30) **Foreign Application Priority Data**

Jun. 29, 2010 (JP) 2010-015822
Jun. 29, 2010 (JP) 2010-015826
Dec. 9, 2010 (JP) 2010-029349
Dec. 9, 2010 (JP) 2010-029350
Dec. 9, 2010 (JP) 2010-029351

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

(52) **U.S. Cl.**
USPC **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

D592,615 S * 5/2009 Imai et al. D13/180
D607,420 S * 1/2010 Imai et al. D13/180
D615,052 S * 5/2010 Imai et al. D13/180
D618,635 S * 6/2010 Imai et al. D13/180
D637,564 S * 5/2011 Tseng et al. D13/180
(Continued)

FOREIGN PATENT DOCUMENTS

JP D1339026 9/2008
JP D1339028 9/2008
(Continued)

OTHER PUBLICATIONS

Catalogue for Product List, "CL-L233 Series," produced by Citizen Electronics Ltd., Copyright 2009.
(Continued)

Primary Examiner — Selina Sikder
(74) *Attorney, Agent, or Firm* — SAIDMAN DesignLaw Group

(57) **CLAIM**

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

DESCRIPTION

FIG. **1** is a front, bottom, right side perspective view of the first embodiment of a light emitting diode showing our new design;
FIG. **2** is a front elevational thereof;
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FIG. **5** is a bottom plan view thereof;
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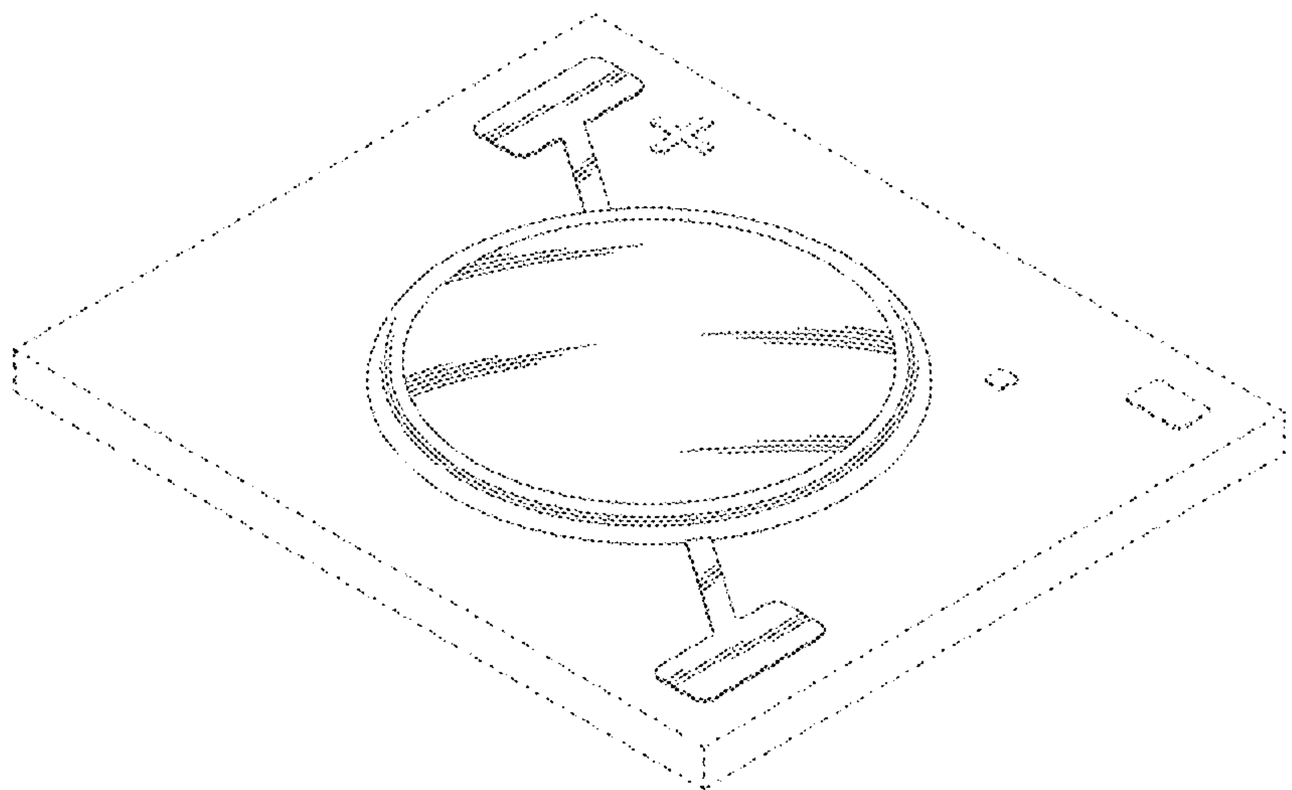
FIG. **14** is a left side elevational view thereof.
The dashed broken lines illustrate portions of the light emitting diode and form no part of the claimed design. The diagonal shading indicates translucency.

1 Claim, 14 Drawing Sheets



U.S. PATENT DOCUMENTS

D637,565	S	*	5/2011	Wu et al.	D13/180
D645,417	S	*	9/2011	Imai et al.	D13/180
D645,421	S	*	9/2011	Wang et al.	D13/180
2011/0062482	A1	*	3/2011	Solomensky et al.	257/99

FOREIGN PATENT DOCUMENTS

JP	D1383248	3/2010
JP	D1383249	3/2010
JP	D1383250	3/2010

OTHER PUBLICATIONS

Product Data Sheet DS11, "Bridgelux ES Array Series," publication date: Oct. 11, 2010, produced by Bridgelux Inc.

Product Data Sheet DS_{14}, "Bridgelux LS Array Series," publication date: Dec. 1, 2010, produced by Bridgelux Inc.

Citizen Electronics, High Power LED White Citizen CL-L_{190}-C_5L, http://www.conrad-uk.com/ce/de/product/180922/High-Power-LED-Weiss-CL-L_{190}-Citizen-Electro-CL-L_{190}-C_5L-Weiss-$_{320}$-lm-56-W-$_{120}$-, published by Conrad U.K., available at least as early as Jan. 21, 2008.

Citizen Electronics, High Power LED White Citizen Cl-L_{230}-C_{10}N, http://www.conrad-uk.com/ce/en/product/180926/HIGHPOWER-LED-WHITE-CITIZEN-CL-L_{230}-C_{10}N, published by Conrad U.K., available at least as early as Feb. 19, 2008.

* cited by examiner

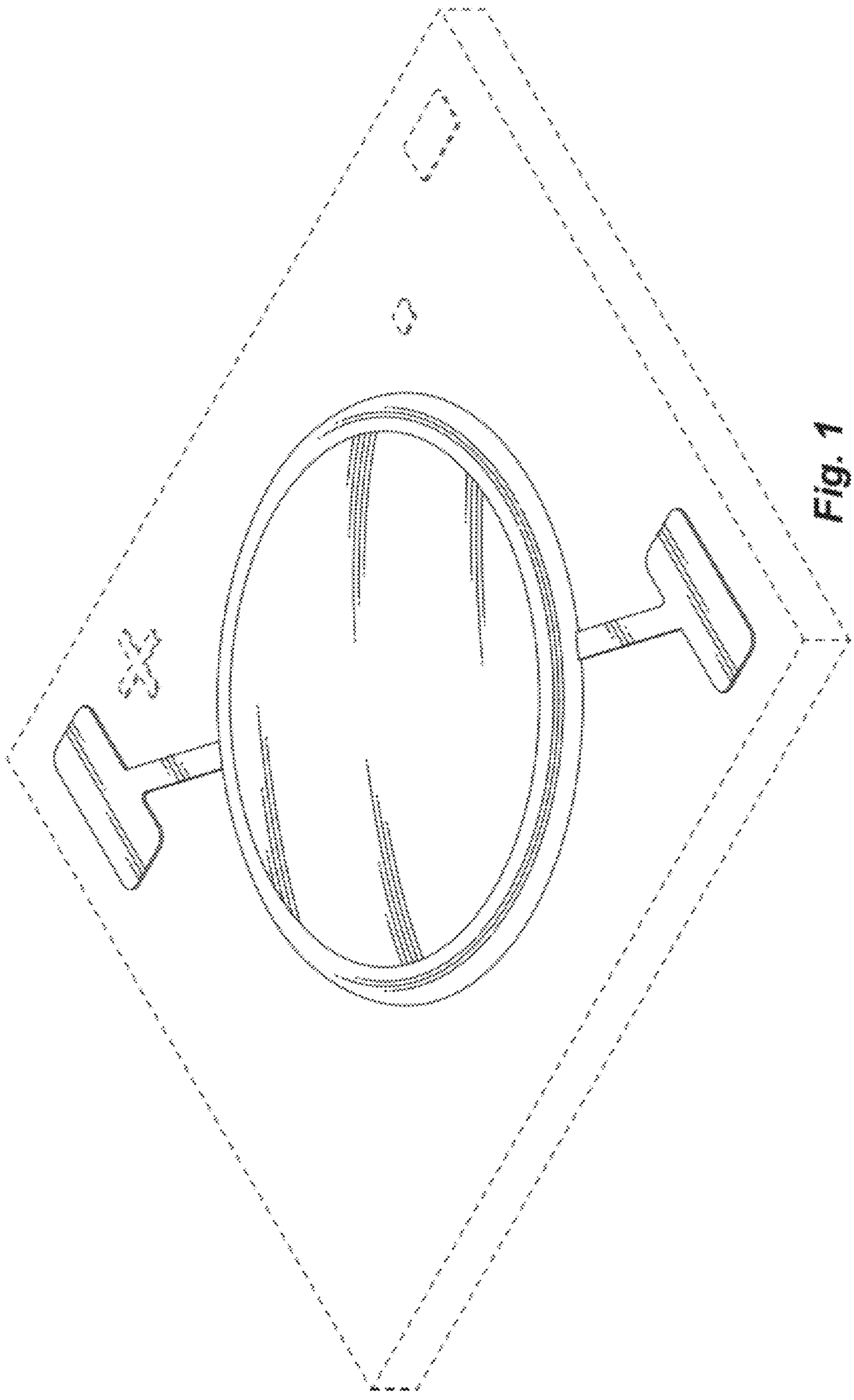


Fig. 1

Fig. 2

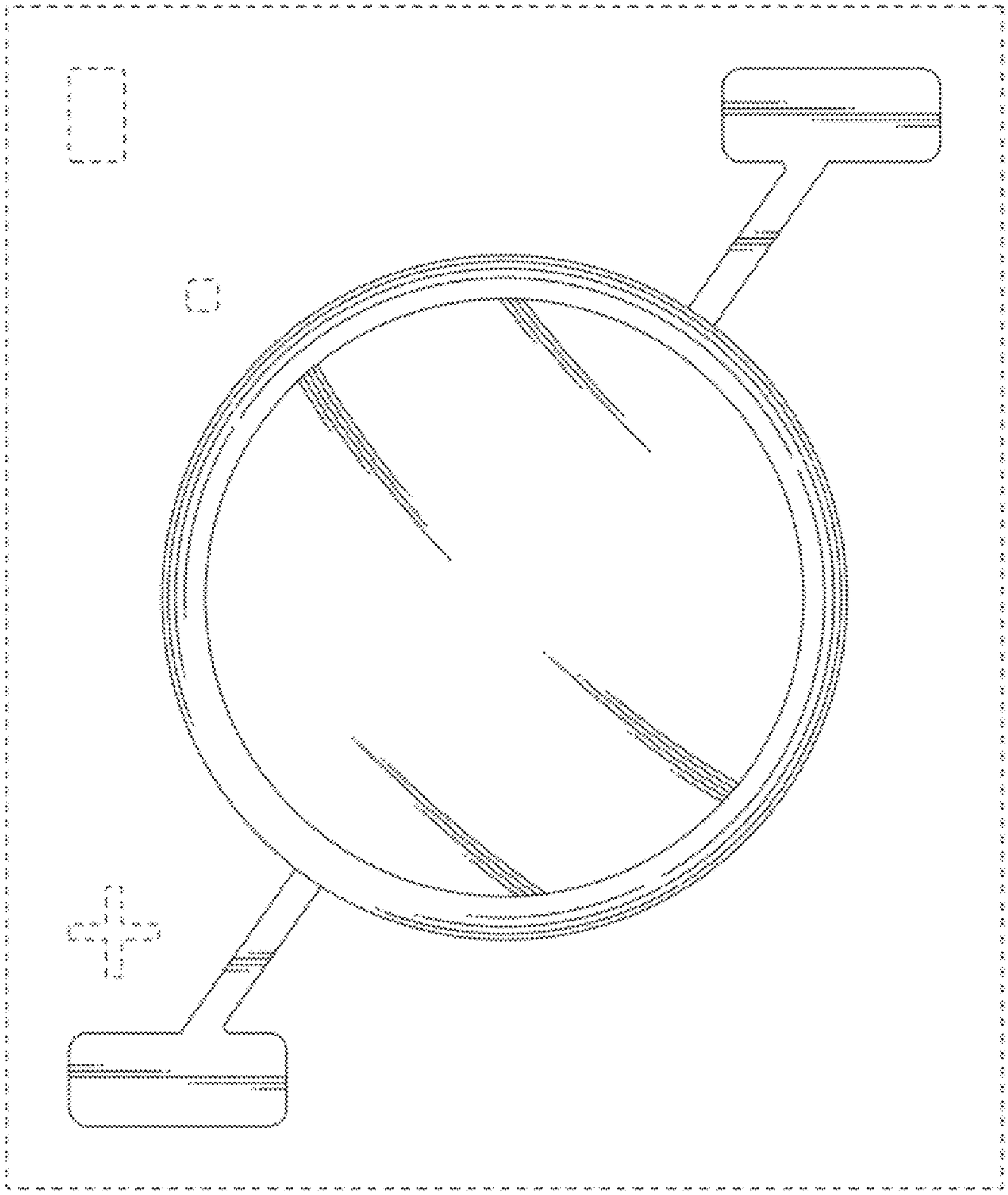
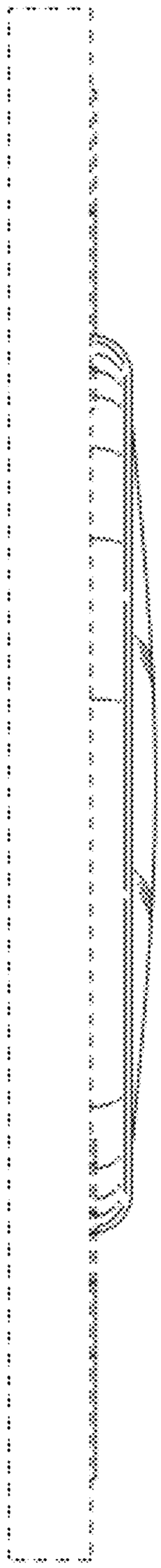


Fig. 3



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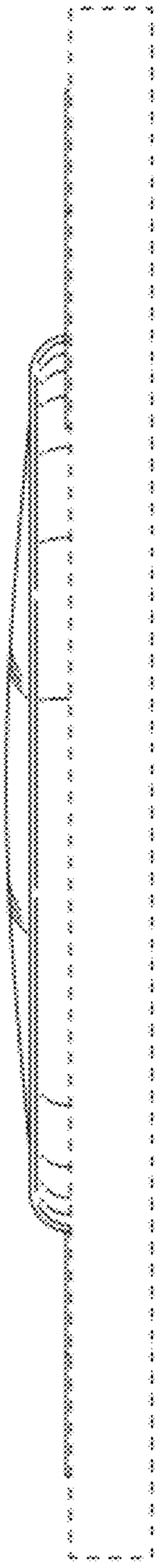

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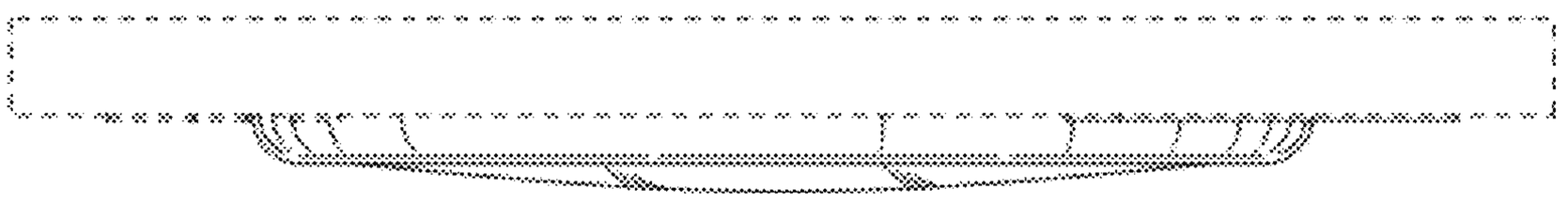

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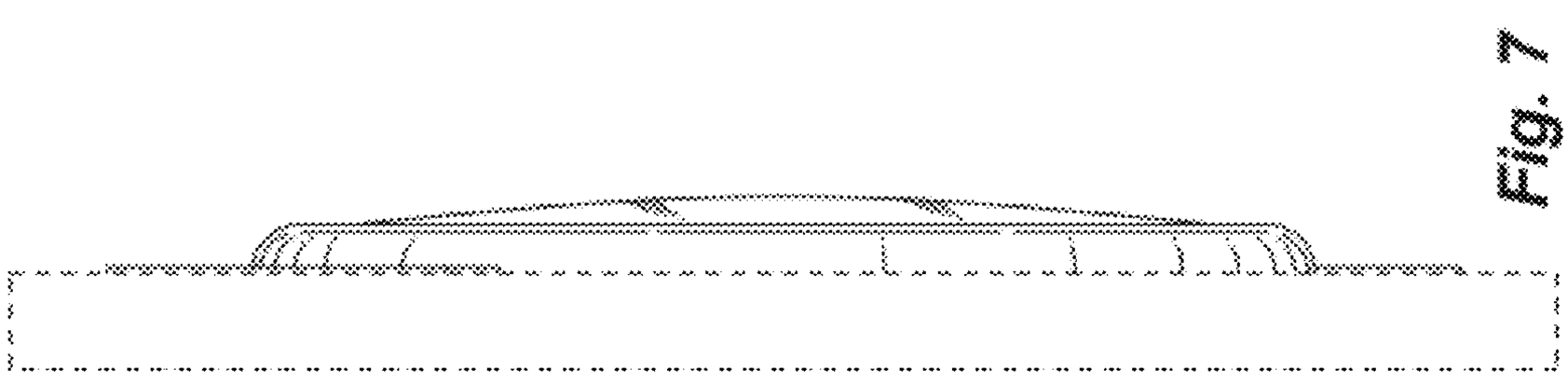

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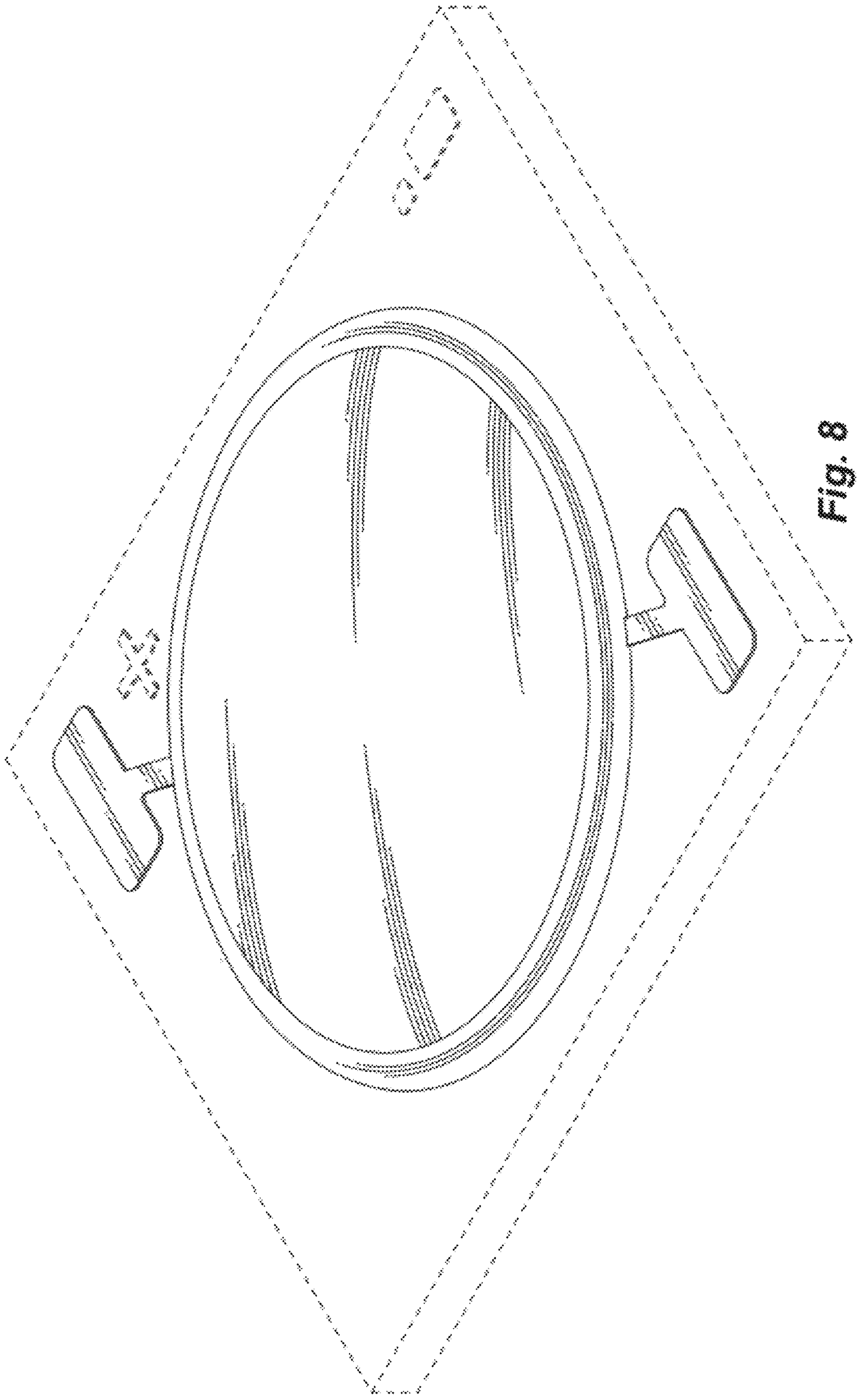
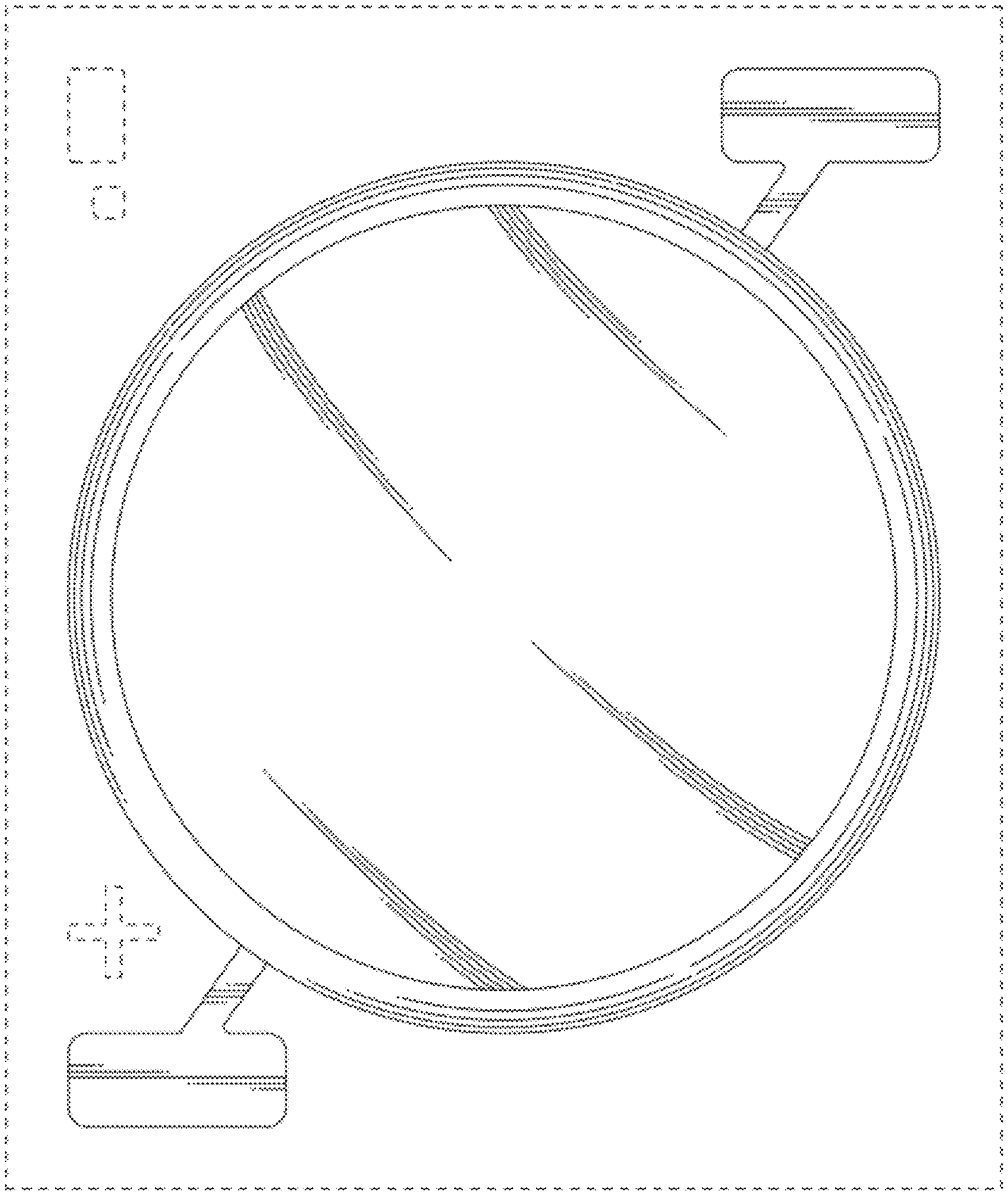


Fig. 8

Fig. 9



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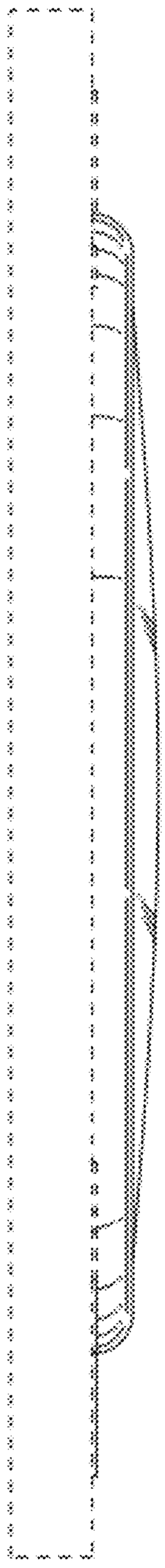

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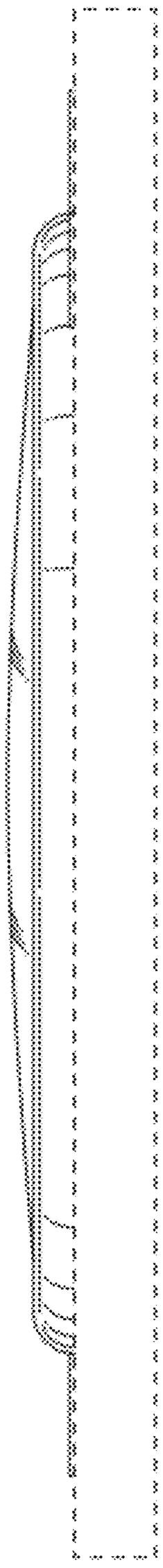

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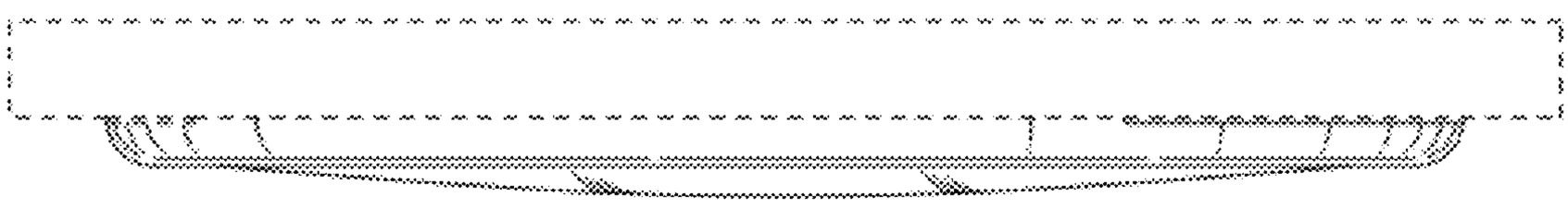

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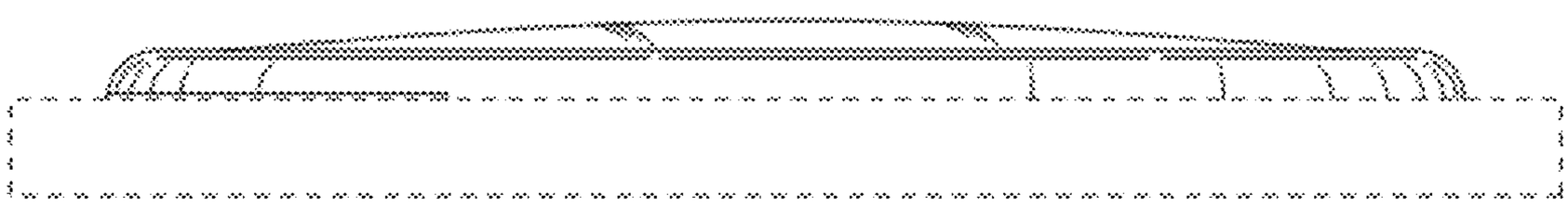

Fig. 14

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : D682,224 S
APPLICATION NO. : 29/381611
DATED : May 14, 2013
INVENTOR(S) : Sasano et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please delete the title page and insert the title page showing an illustrative figure as attached.

Please delete drawings 1-14 and insert drawing sheets 1-14 as shown on the attached pages.

Signed and Sealed this
Eighth Day of April, 2014

Michelle K. Lee

Michelle K. Lee
Deputy Director of the United States Patent and Trademark Office

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(Continued)

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JP D1339026 9/2008
JP D1339028 9/2008

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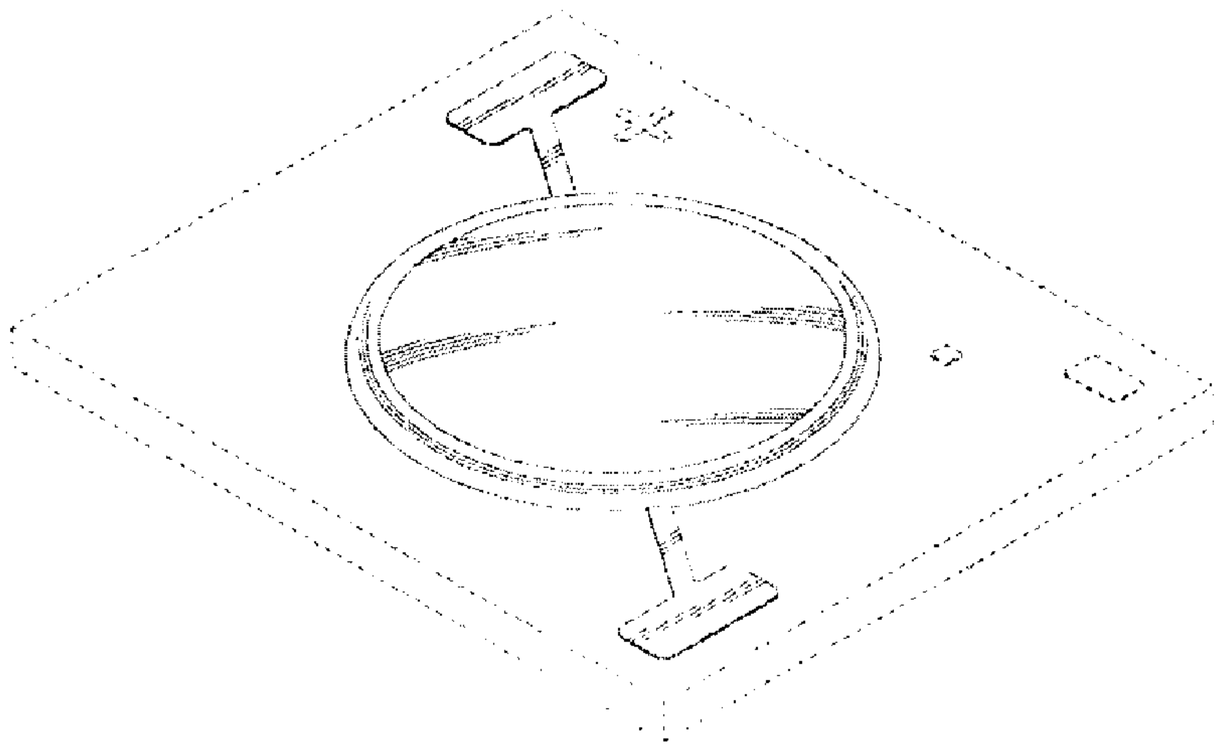

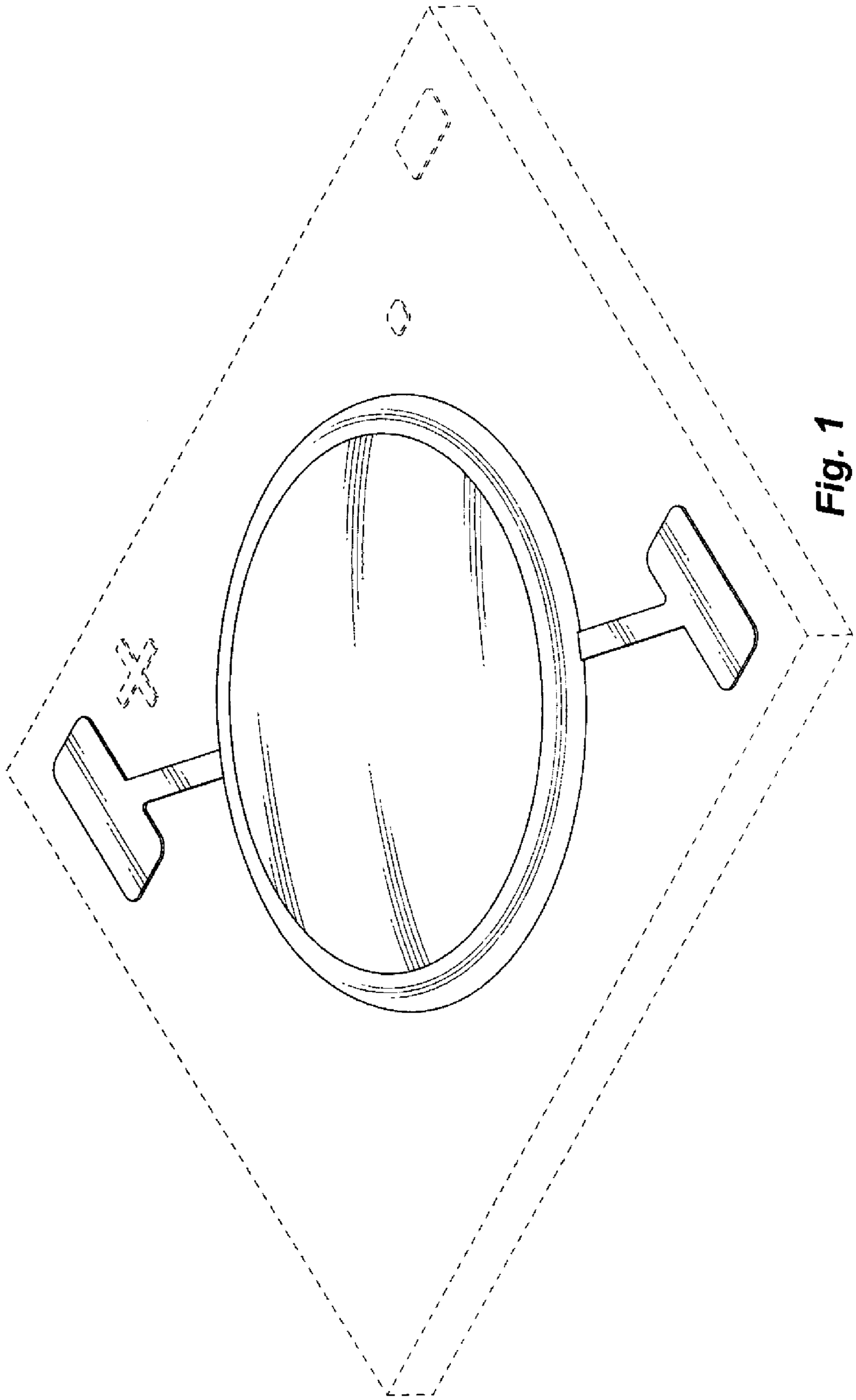

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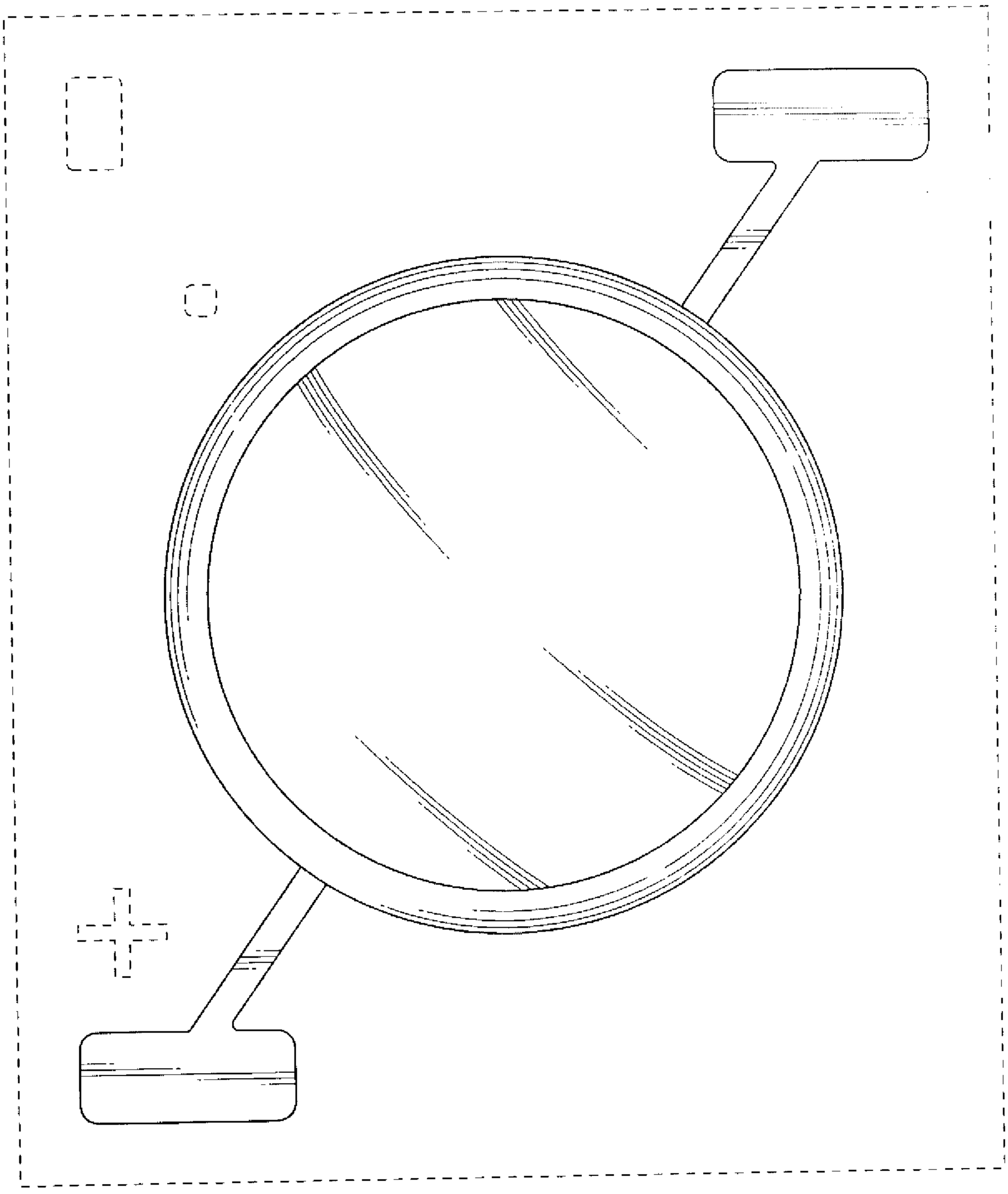

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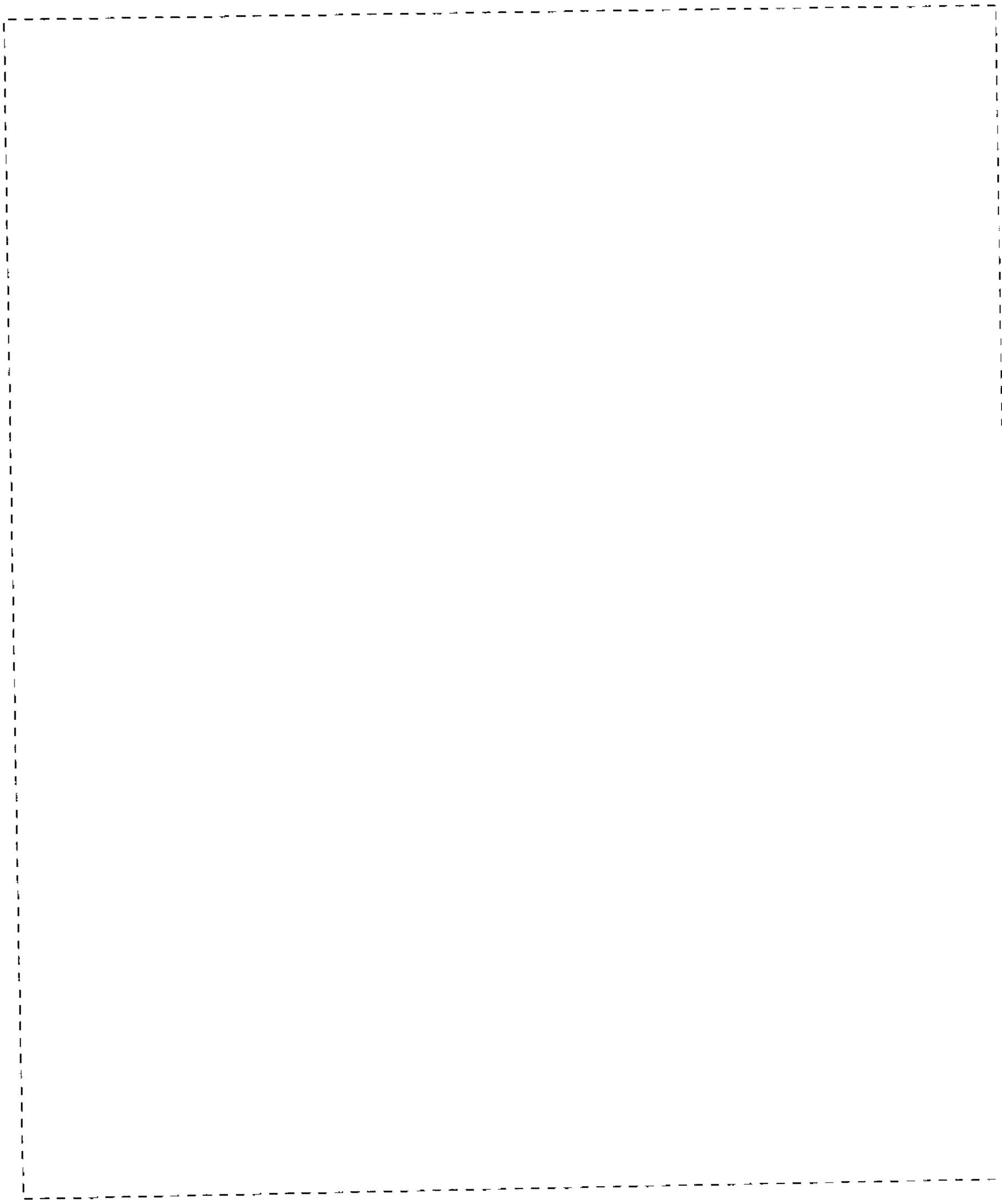

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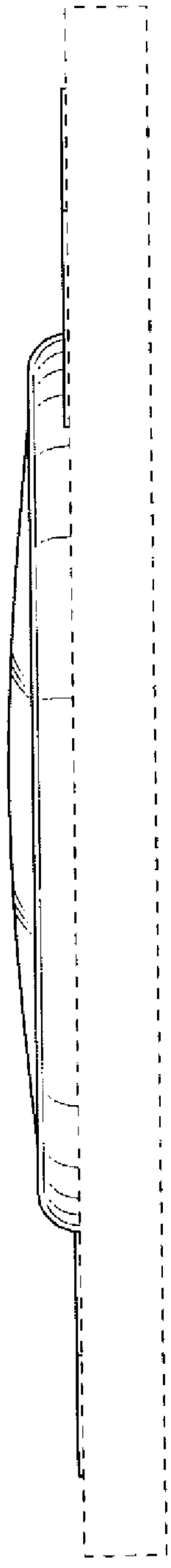

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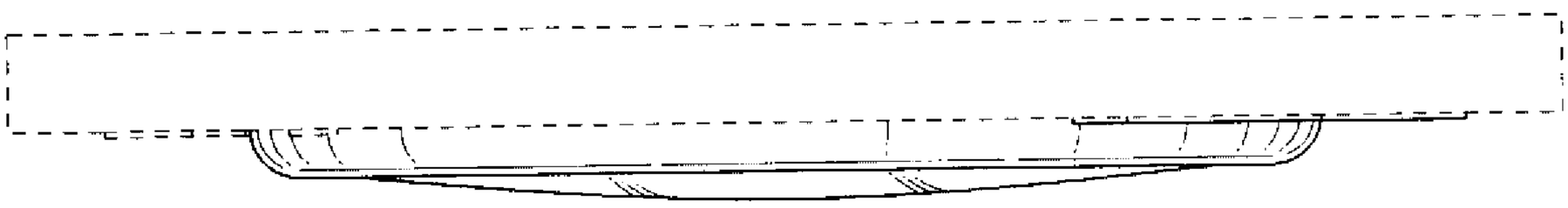

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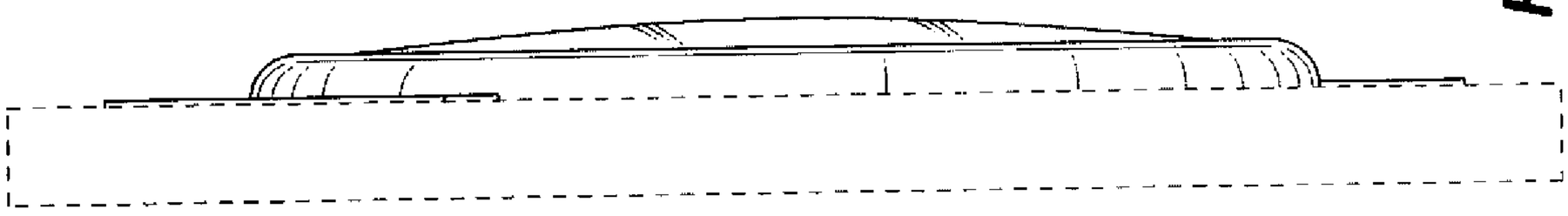

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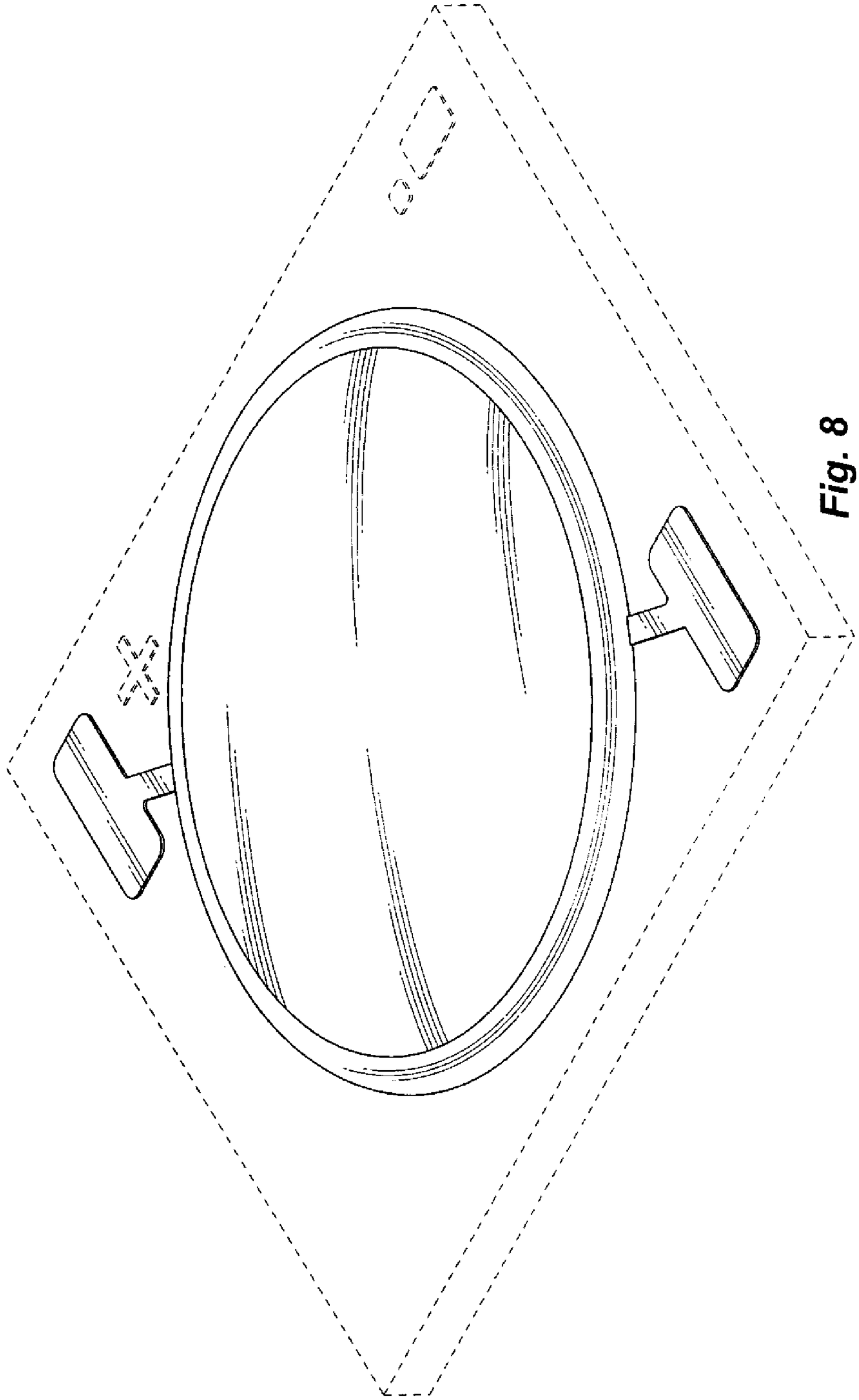

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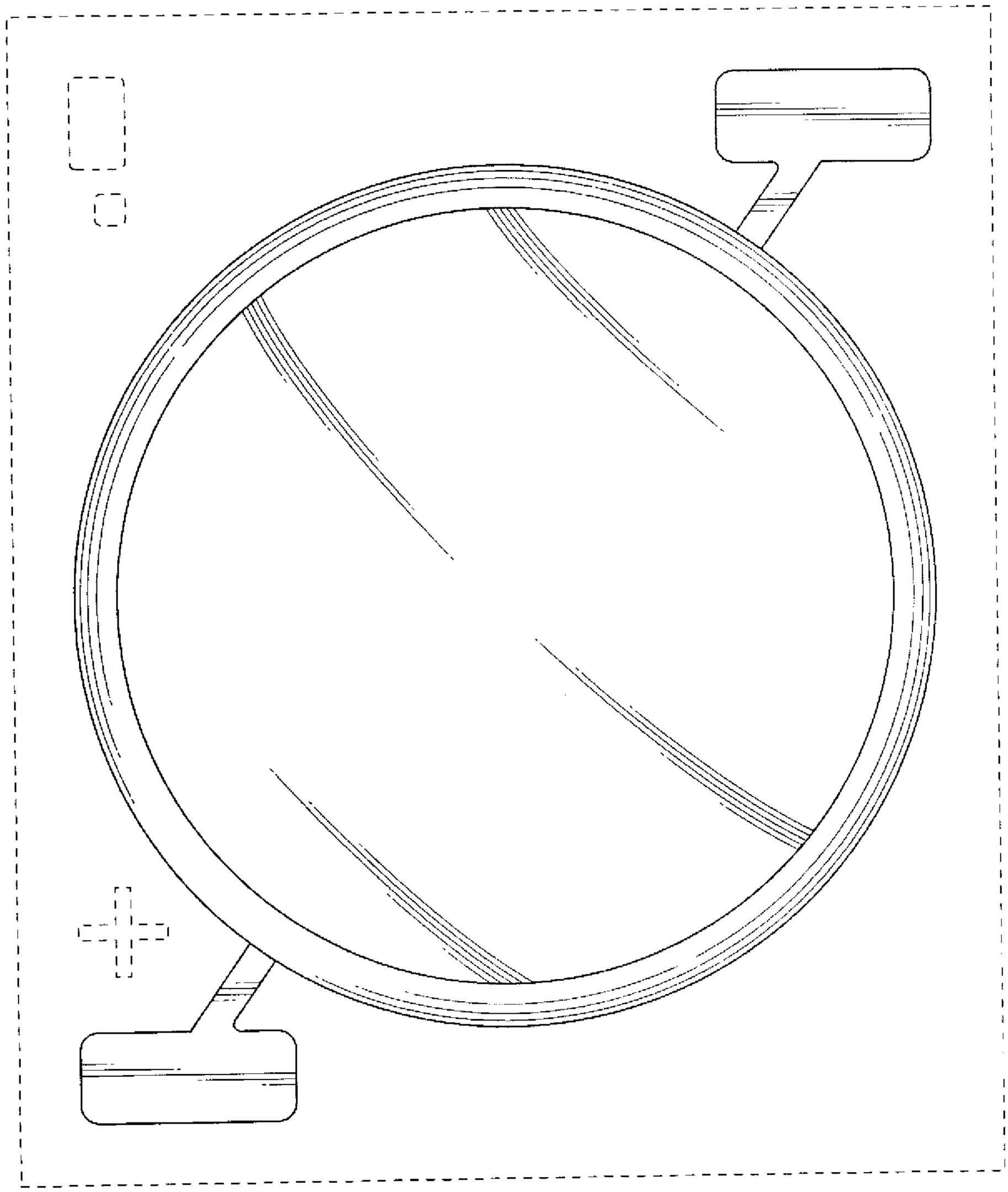

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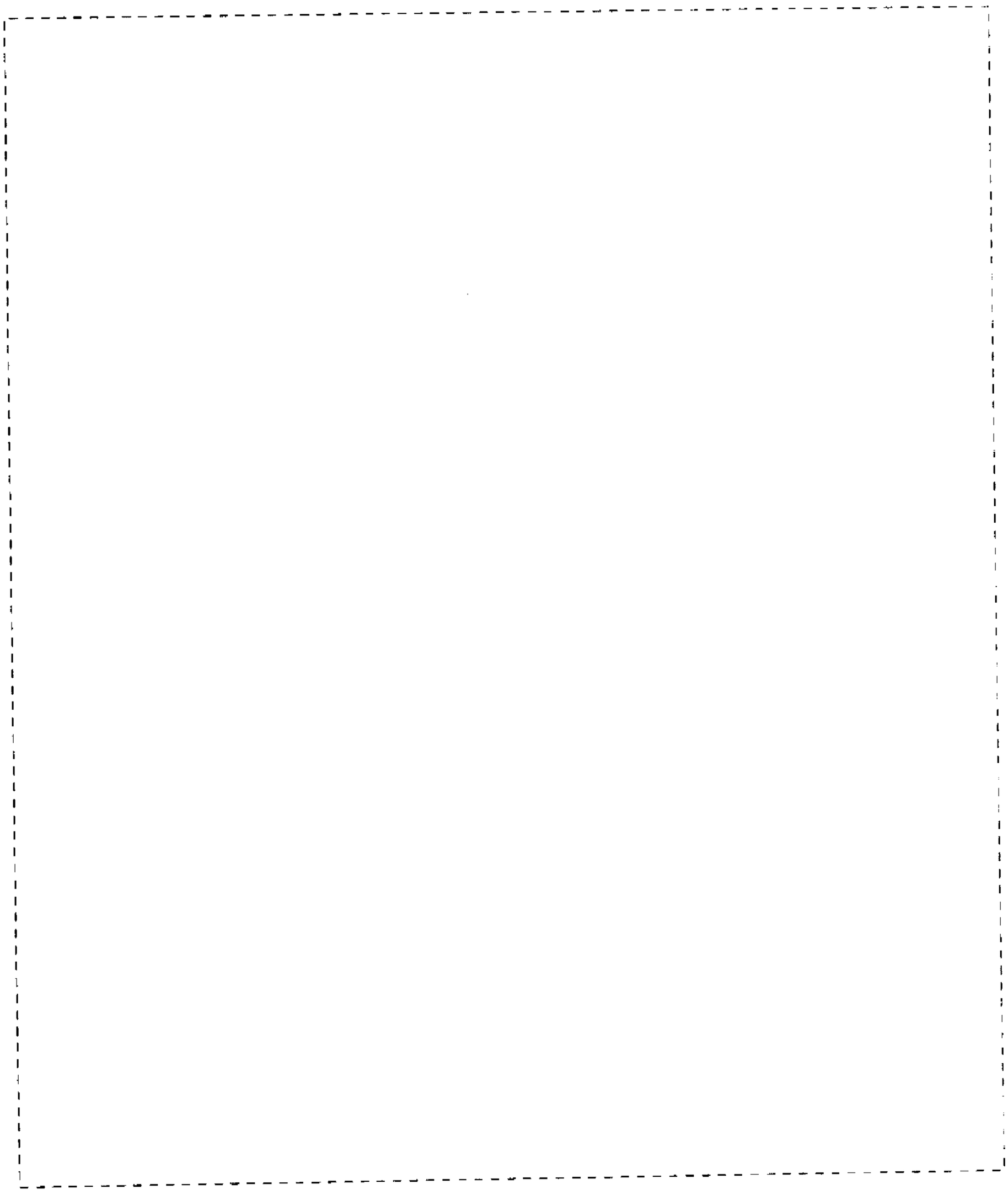

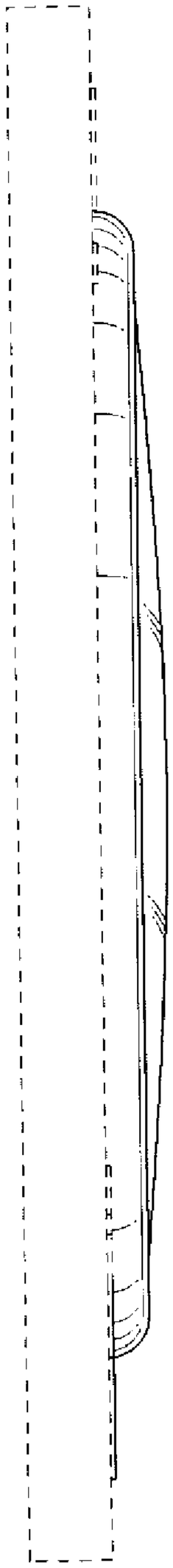

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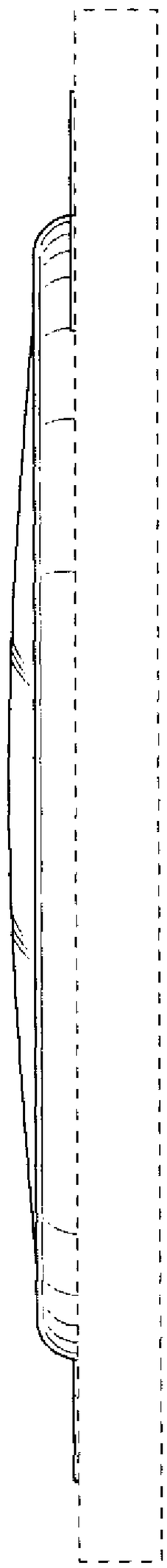

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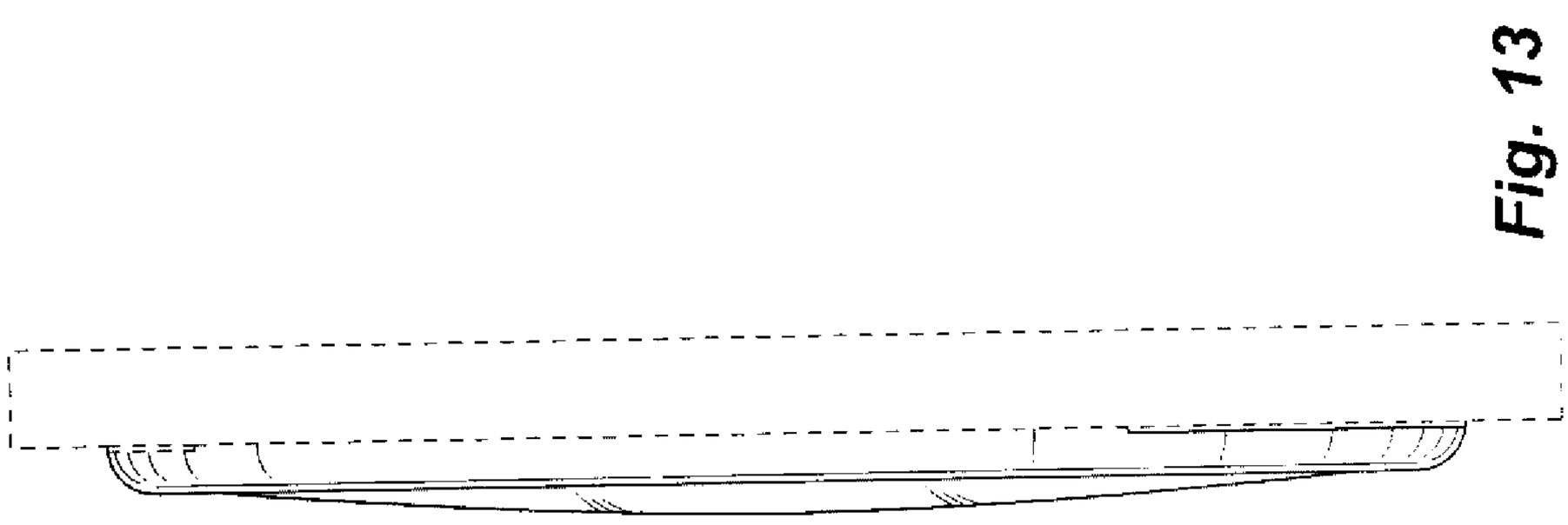

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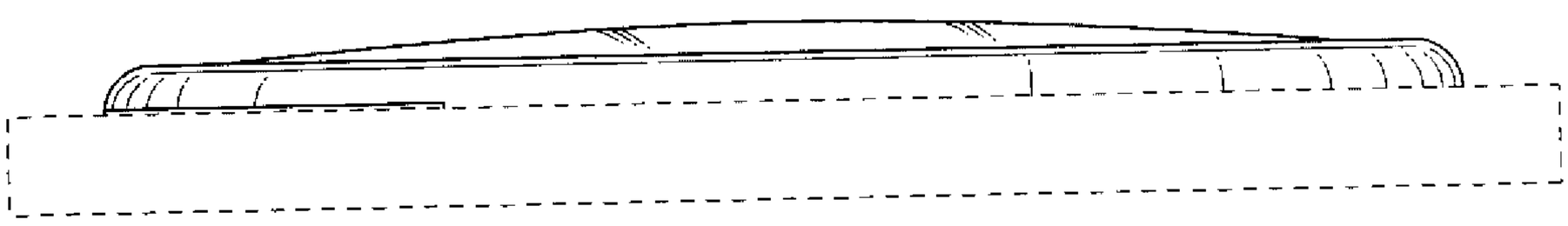

Fig. 14