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

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(54) **VALVE FLAP**
(71) Applicant: **MAKRITE INDUSTRIES INC.**, New Taipei (TW)
(72) Inventor: **Chao-yuan Tseng**, New Taipei (TW)
(73) Assignee: **MAKRITE INDUSTRIES INC.**, New Taipei (TW)
(**) Term: **15 Years**

5,513,658 A * 5/1996 Goseki A61F 5/0109
128/882
D393,903 S * 4/1998 Bierman D24/128
D402,027 S * 12/1998 Elwell D24/110.5
D403,779 S * 1/1999 Davis D24/190
D404,815 S * 1/1999 Bierman D24/128
D428,153 S * 7/2000 Davis D24/190
6,274,786 B1 * 8/2001 Heller A61F 13/148
128/889
D470,592 S * 2/2003 Dunshee D24/189
D471,632 S * 3/2003 Dunshee D24/189
(Continued)

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(52) **U.S. Cl.**
USPC **D24/110.6**
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D24/162, 164, 186, 189, 190, 214;
D19/1, 99; D29/100
CPC ... A62B 18/025; A61M 16/20; A61M 16/206;
A61M 16/207; A61M 16/208; A61M
16/201
See application file for complete search history.

OTHER PUBLICATIONS

[Bethlehem Steel Extrusion Catalog, Representative Sections], Bethlehem Steel Company, Date: [1951], p. 8 of catalog, p. 1 of PDF, Date Viewed: [Mar. 11, 2022]. (Year: 1951).*

Primary Examiner — Jonathan J Han
Assistant Examiner — Amanda J Berlinski

(57) **CLAIM**

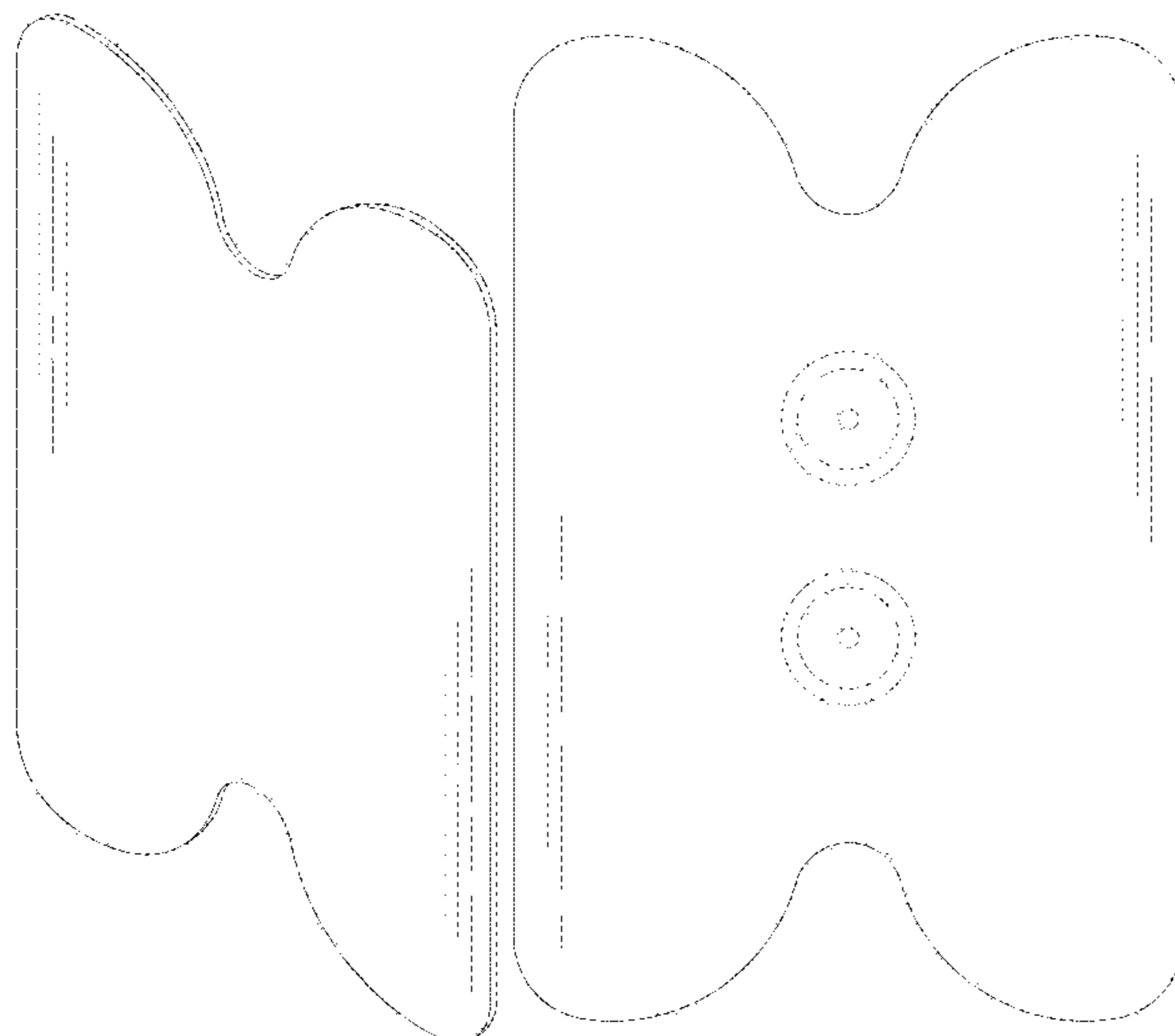
The ornamental design for a valve flap, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a valve flap showing my new design;
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 shows an environmental perspective view of the valve flap.
The broken lines in the drawings depict portions of the valve flap and environmental structure that form no part of the claimed design.

(56) **References Cited**
U.S. PATENT DOCUMENTS
D47,333 S * 5/1915 Kleinschmidt D24/190
3,529,597 A * 9/1970 Fuzak A61F 13/105
D24/189
D245,539 S * 8/1977 Lindsey D24/118
4,129,128 A * 12/1978 McFarlane A61M 25/02
604/174
4,823,789 A * 4/1989 Beisang, III A61M 25/02
128/911
D307,184 S * 4/1990 McConnell D29/113
D307,338 S * 4/1990 Vandeputte D2/893
D310,721 S * 9/1990 Beisang, III D24/128
D311,608 S * 10/1990 Harding D29/100
5,385,538 A * 1/1995 Mann A61F 5/012
128/DIG. 20

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D480,144 S * 9/2003 Adams D24/189
 6,663,600 B2 * 12/2003 Bierman A61M 25/02
 604/174
 7,299,506 B1 * 11/2007 Samaroo A61F 13/101
 2/24
 D563,552 S * 3/2008 Bierman D24/128
 D567,941 S * 4/2008 Dikeman D24/128
 D568,466 S * 5/2008 Dikeman D24/128
 D571,923 S * 6/2008 Roberts D24/190
 D579,552 S * 10/2008 Oldenburg D24/129
 D609,802 S * 2/2010 Harren D24/189
 D626,241 S * 10/2010 Sagnip D24/190
 D637,725 S * 5/2011 Seminaroti D24/189
 D640,381 S * 6/2011 Tweardy D24/190
 D683,862 S * 6/2013 Hartman D24/214
 D746,974 S * 1/2016 Ylitalo D24/110.6
 D777,334 S * 1/2017 Souney D24/190
 9,643,048 B1 * 5/2017 Danford A63B 21/00069
 D820,978 S * 6/2018 Koehler D24/128
 D821,590 S * 6/2018 Hylton D24/190
 D849,236 S * 5/2019 Baker D24/110.1
 D859,648 S * 9/2019 Delka D24/126
 D868,279 S * 11/2019 Chiu D24/214
 D887,553 S * 6/2020 Huberty D24/162
 D909,591 S * 2/2021 Lai D24/200
 D943,750 S * 2/2022 Caneppele D24/189
 2007/0256689 A1 * 11/2007 Burchell A61M 16/201
 128/204.18
 2013/0190643 A1 * 7/2013 Brambilla A61M 16/201
 128/205.25
 2018/0049638 A1 * 2/2018 Ewers A61B 5/4809
 2021/0353975 A1 * 11/2021 Tseng A62B 18/025

* cited by examiner

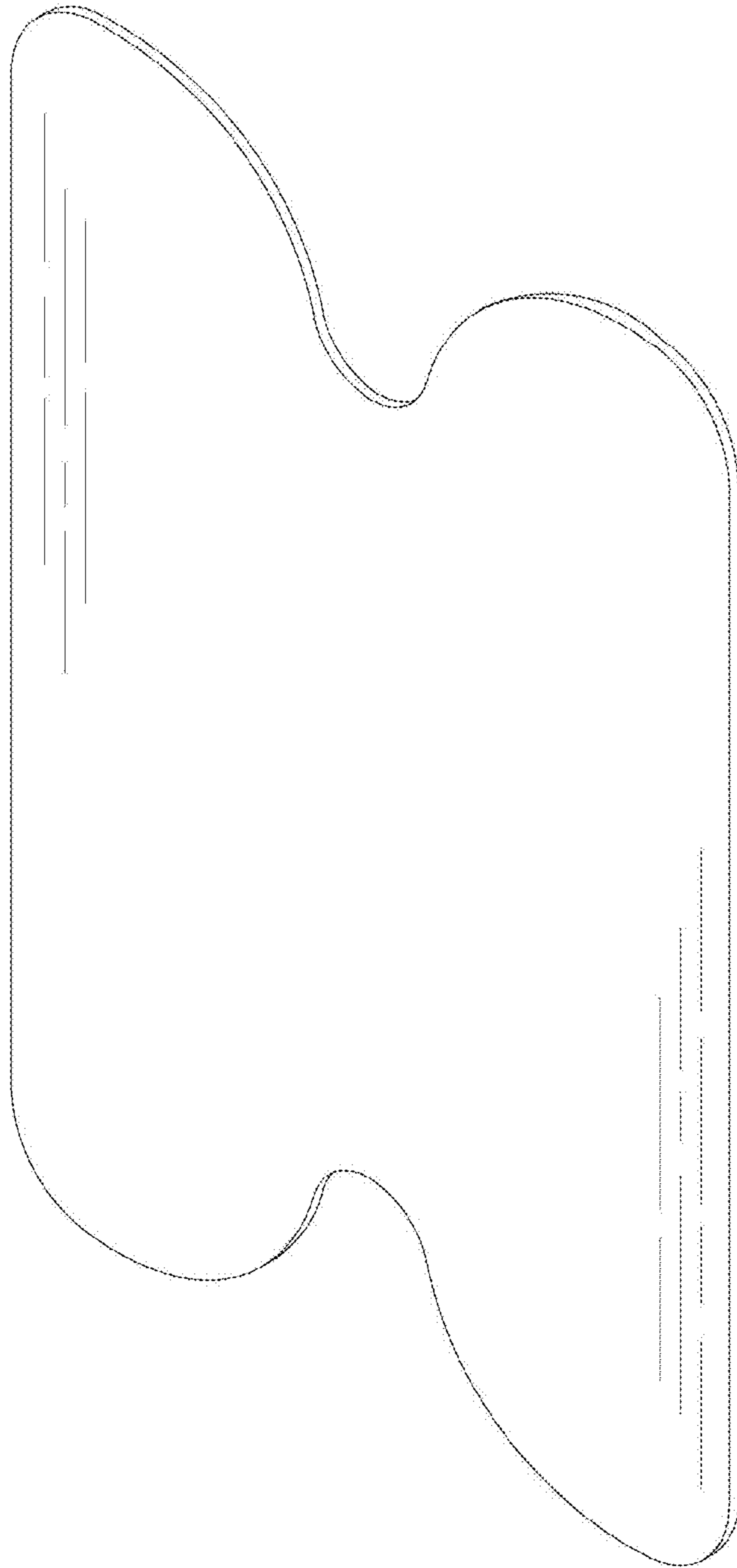


FIG. 1

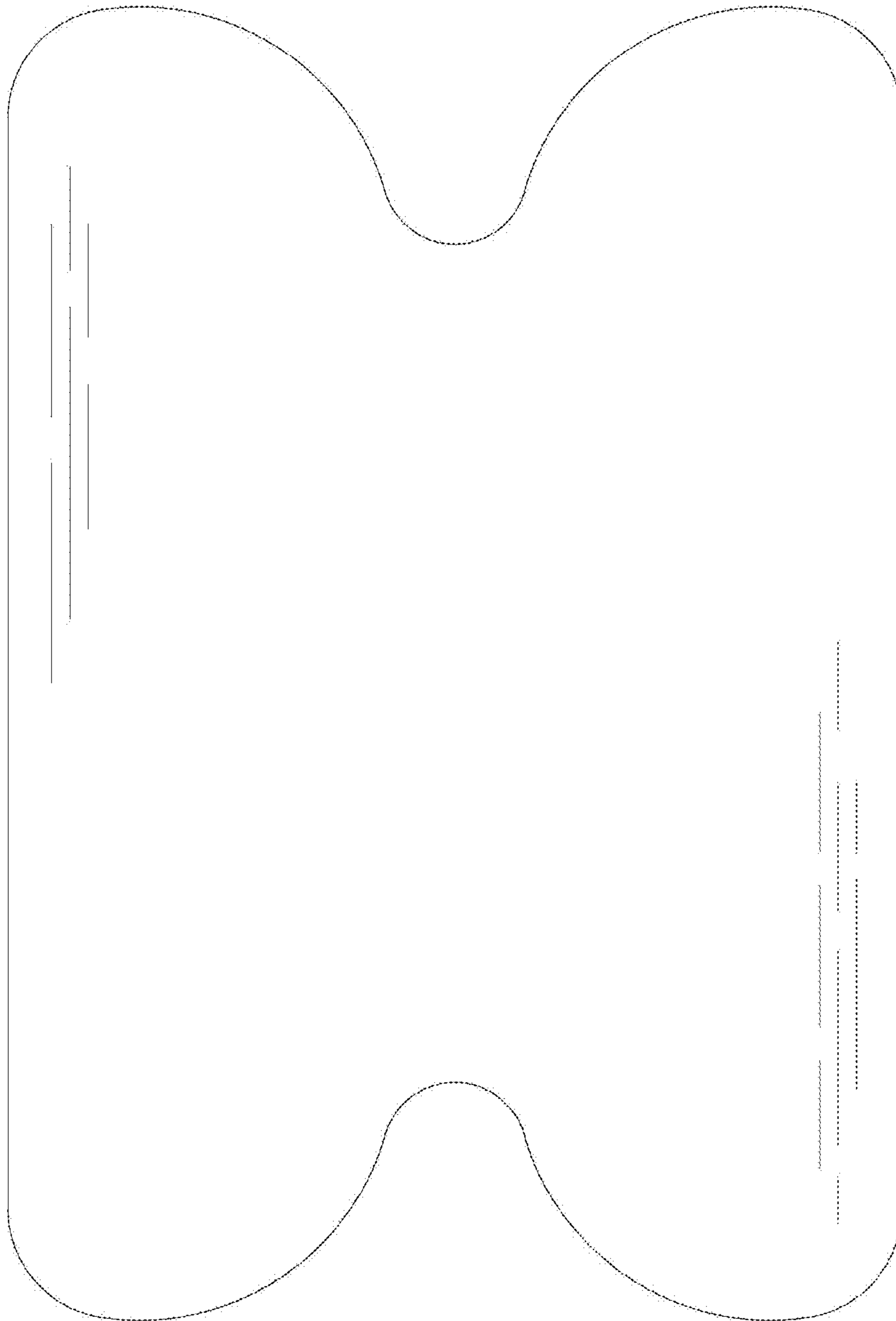


FIG. 2

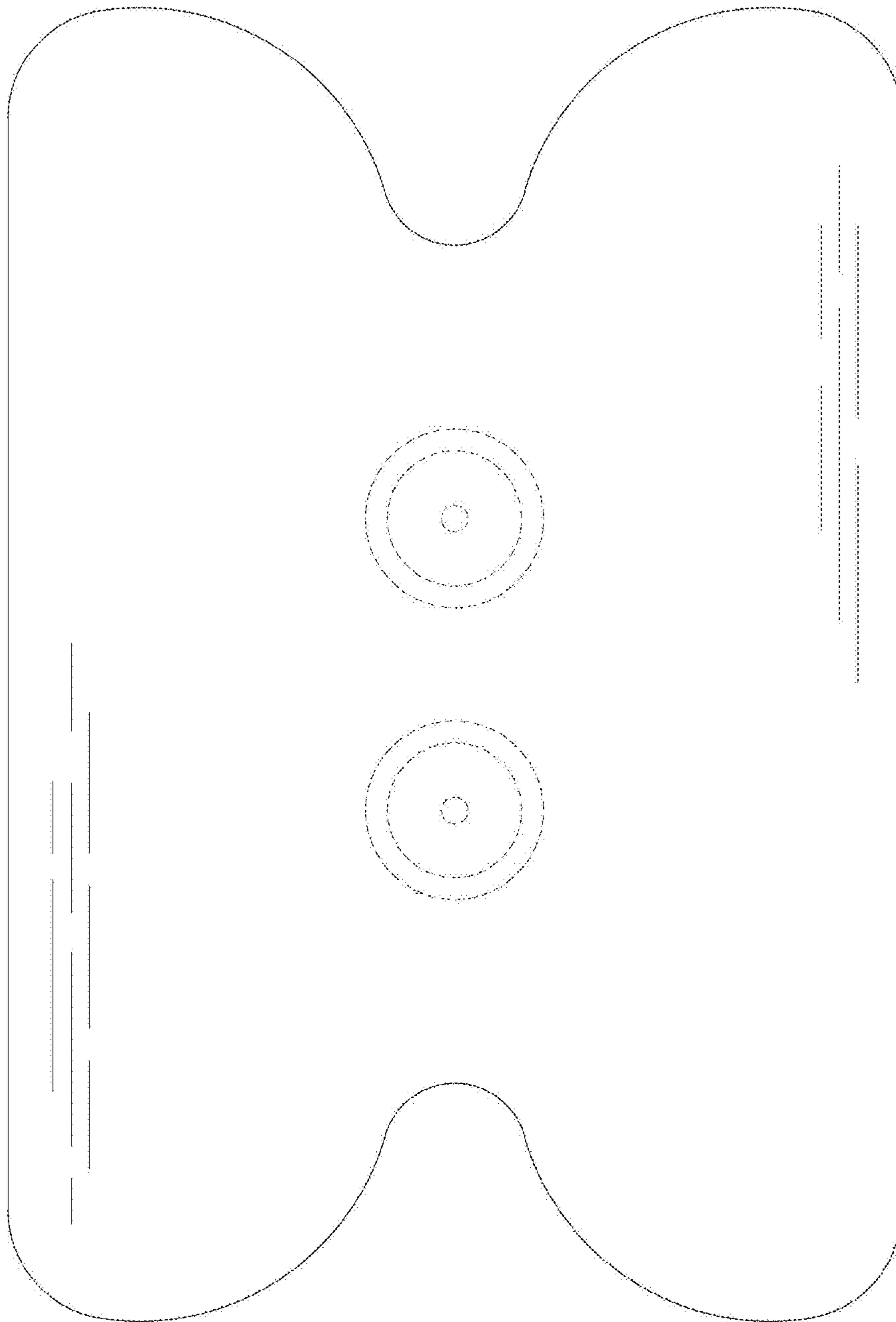


FIG. 3

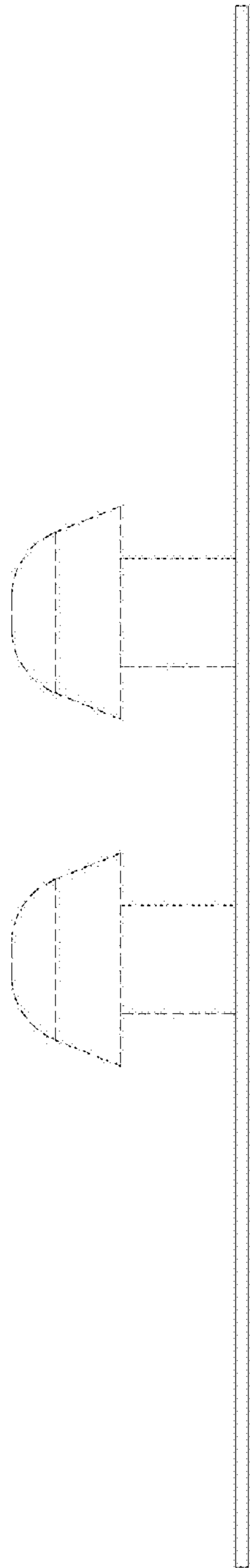


FIG. 4

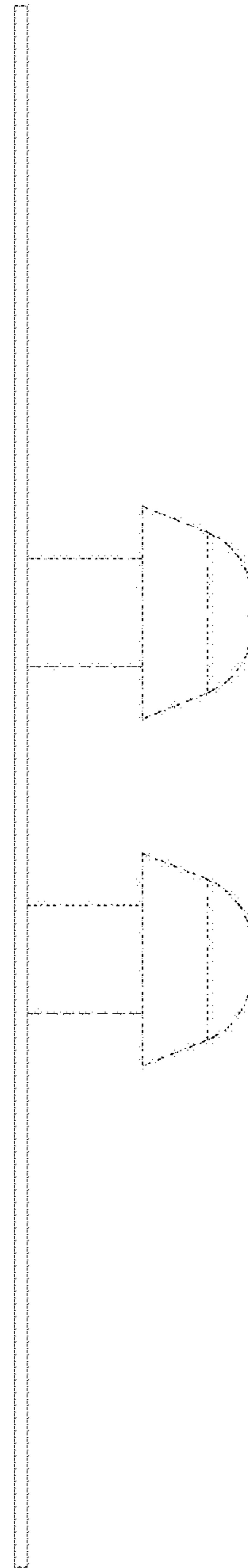


FIG. 5

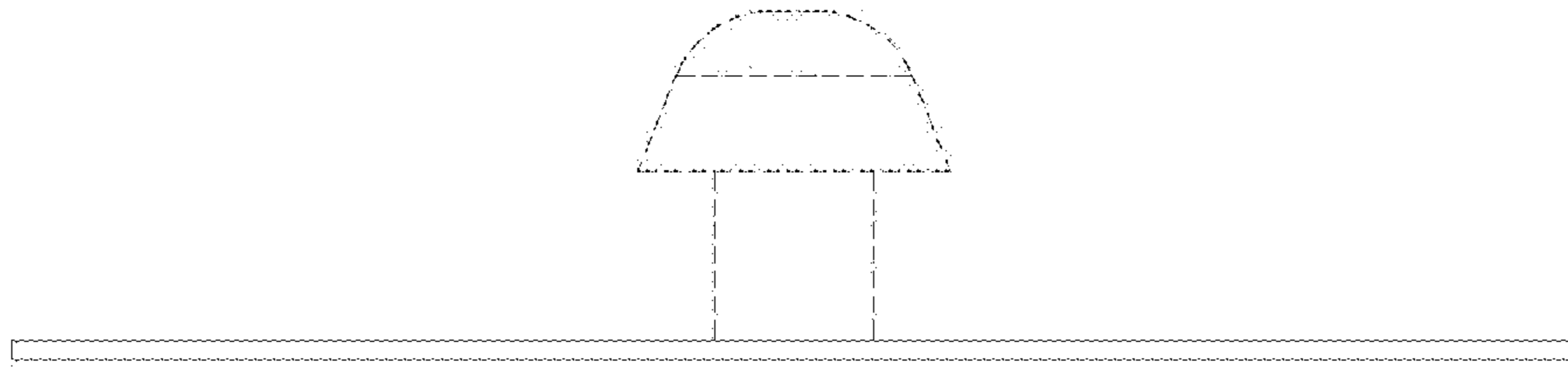


FIG. 6

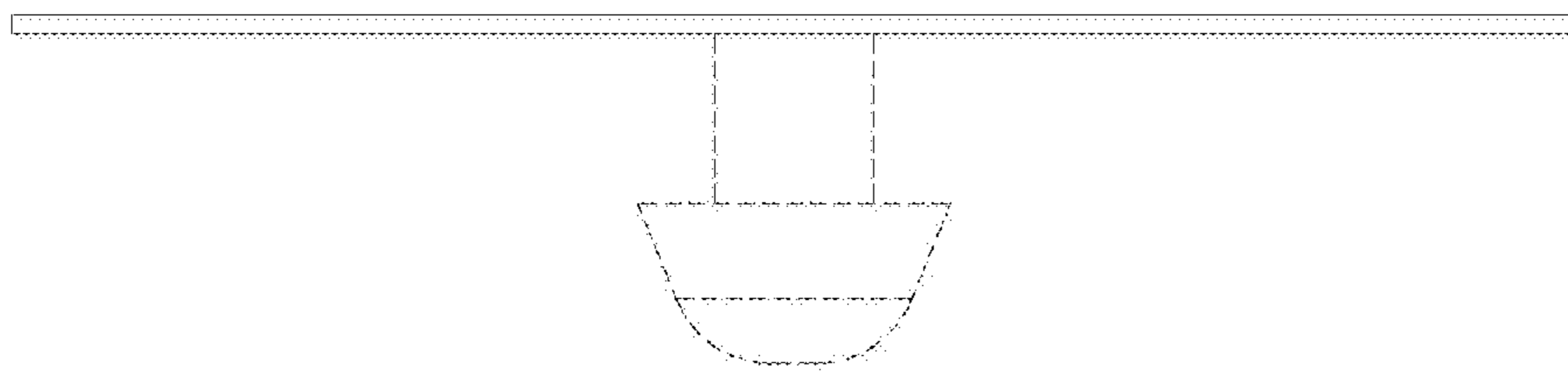


FIG. 7

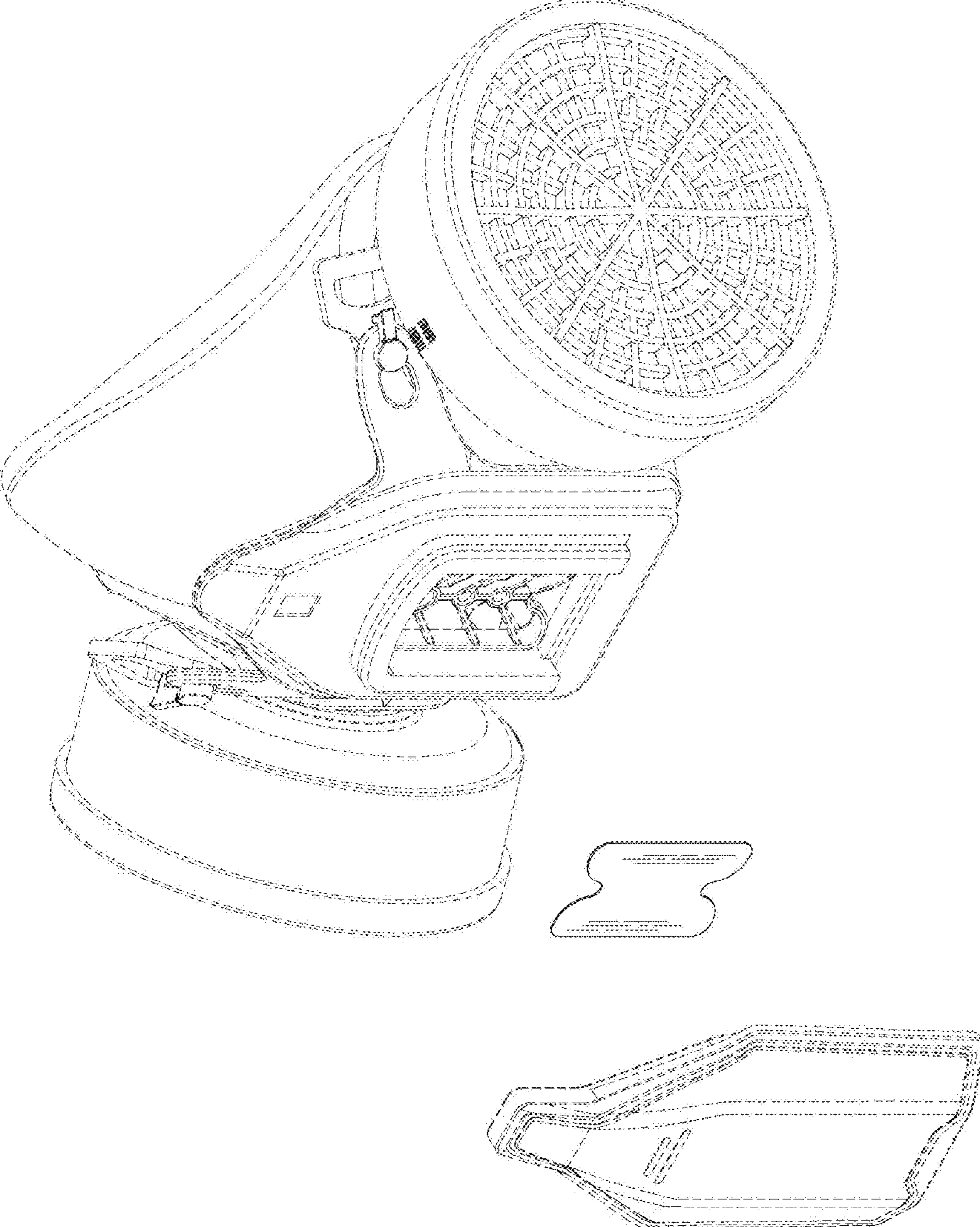


FIG. 8