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

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(54) **EXERCISE STEPPER**
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(73) Assignee: **Ying Wang**, Jiangsu Province (CN)
(**) Term: **15 Years**

5,643,148 A * 7/1997 Naville A43B 13/183
482/79
D390,020 S * 2/1998 Huang D6/349
6,042,521 A * 3/2000 De Giorgis A63B 21/0004
482/79
D456,052 S * 4/2002 Steves D21/668
D461,211 S * 8/2002 Kuo D21/668
6,436,012 B1 * 8/2002 Naville A43B 13/184
482/121
D465,001 S * 10/2002 Chiang-Chow D21/668
(Continued)

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OTHER PUBLICATIONS

Aerobic by Artist Unknown dated Dec. 29, 2021. Found online [Jul. 27, 2022] <https://tinyurl.com/4kdkmw52> (Year: 2021).*

(30) **Foreign Application Priority Data**

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Primary Examiner — Ryan Harvey

(51) **LOC (13) Cl.** **21-02**
(52) **U.S. Cl.**
USPC **D21/670**

(57) **CLAIM**

The ornamental design for an exercise stepper, as shown and described.

(58) **Field of Classification Search**
USPC D21/686, 670, 671, 412, 662; 482/53,
482/52, 77, 79, 129, 146
CPC A63B 21/0087; A63B 21/00069; A63B
2022/003; A63B 25/10; A63B 22/0058;
A63B 22/0056; A63B 22/14; A63B
21/0083; A63B 22/0069
See application file for complete search history.

DESCRIPTION

FIG. 1 is a front and top perspective view of an exercise stepper, showing our new design;
FIG. 2 is a rear and bottom perspective view thereof;
FIG. 3 is a front elevation view thereof;
FIG. 4 is a rear elevation view thereof;
FIG. 5 is a left side elevation view thereof;
FIG. 6 is a right side elevation view thereof;
FIG. 7 is a top plan view thereof;
FIG. 8 is a bottom plan view thereof; and,
FIG. 9 is an enlarged view of a portion labeled, 'FIG. 9' in FIG. 2.

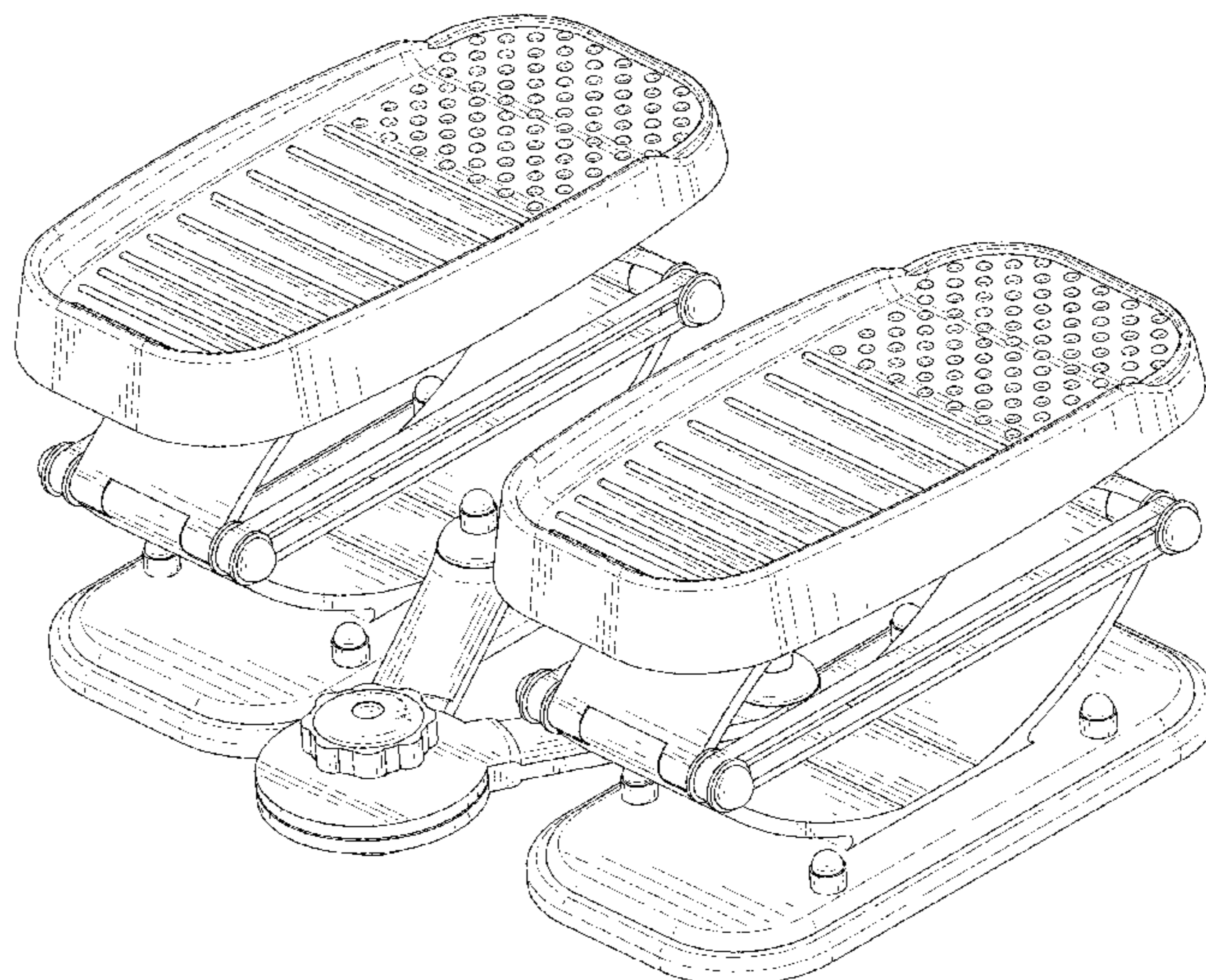
The broken lines in the figures illustrate portions of the exercise stepper that form no part of the claimed design. The dash dot dash lines in FIGS. 2 and 9 are for the purpose of depicting the boundary lines of the enlarged view and form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,534,124 A * 8/1985 Schnell A63B 25/10
36/114
D281,343 S * 11/1985 Krive 482/71
5,205,798 A * 4/1993 Lekhtman A63B 25/10
482/121
5,304,106 A * 4/1994 Gresko A63B 22/0058
482/80
D348,708 S * 7/1994 Chen D21/685
D349,542 S * 8/1994 Russell D21/685
5,411,454 A * 5/1995 Chang A63B 22/0664
482/148

1 Claim, 9 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D466,567 S * 12/2002 Chen D21/668
 6,595,899 B2 * 7/2003 Liang A63B 22/0056
 482/53
 D481,085 S * 10/2003 Ben-Moshe D21/668
 6,712,739 B1 * 3/2004 Chen A63B 22/0058
 482/53
 D496,700 S * 9/2004 Chen D21/668
 D498,506 S * 11/2004 Yu D21/668
 D514,635 S * 2/2006 Hsiao D21/670
 7,048,675 B1 * 5/2006 Liang A63B 22/0064
 482/53
 7,314,125 B2 * 1/2008 Smaldone A43B 21/26
 267/143
 D561,849 S * 2/2008 Piaget D21/670
 7,335,138 B2 * 2/2008 Lee A63B 25/08
 482/79
 D629,852 S * 12/2010 Repac D21/662
 7,878,960 B1 * 2/2011 Liu A63B 22/14
 482/52
 D684,222 S * 6/2013 Kim D21/662
 D720,819 S * 1/2015 Prats D21/670
 9,242,140 B1 * 1/2016 Yang A63B 22/0046
 9,399,153 B2 * 7/2016 Green A63B 21/4013
 D781,383 S * 3/2017 Ho D21/670
 D781,384 S 3/2017 Ho et al.
 D795,364 S * 8/2017 Chang D21/670
 9,901,773 B2 * 2/2018 Lee A63B 22/04
 D822,773 S * 7/2018 Khubani D21/668
 D855,704 S * 8/2019 Nino D21/698
 D908,179 S * 1/2021 Hsieh D21/670
 11,122,859 B2 * 9/2021 Lee A63B 71/0622
 D945,538 S * 3/2022 Chen D21/670
 D949,255 S * 4/2022 Hsieh D21/670
 D958,268 S * 7/2022 Zhu D21/686
 2003/0096676 A1 * 5/2003 Chen A63B 23/0429
 482/51

2003/0114273 A1 * 6/2003 Chen A63B 23/0429
 482/53
 2003/0216223 A1 * 11/2003 Chuang A63B 23/0429
 482/53
 2004/0048721 A1 * 3/2004 Chou A63B 22/0056
 482/52
 2005/0064996 A1 * 3/2005 Chen A63B 22/0056
 482/53
 2005/0272563 A1 * 12/2005 Liang A63B 21/4047
 482/53
 2006/0035756 A1 * 2/2006 Chen A63B 22/0069
 482/53
 2006/0073942 A1 * 4/2006 Yang A63B 69/18
 482/53
 2006/0100557 A1 * 5/2006 Huang A61H 15/0078
 601/28
 2006/0229166 A1 * 10/2006 Fan A63B 23/03575
 482/53
 2008/0132387 A1 * 6/2008 Teng A63B 22/0056
 482/80
 2008/0146421 A1 * 6/2008 Hsieh A63B 21/02
 482/129
 2009/0270230 A1 * 10/2009 Piaget A63B 21/0085
 482/130
 2010/0248923 A1 * 9/2010 Lo A63B 22/14
 482/146
 2011/0111927 A1 * 5/2011 Kim A63B 22/0056
 482/52
 2012/0295768 A1 * 11/2012 Prats A63B 22/0056
 482/53
 2016/0271439 A1 * 9/2016 Chuang A63B 22/0061
 2016/0271440 A1 * 9/2016 Chuang A63B 21/055
 2018/0056105 A1 * 3/2018 Ho A63B 22/0058
 2018/0207474 A1 * 7/2018 Chen A63B 21/4034
 2018/0236300 A1 * 8/2018 Yao A63B 22/0058
 2020/0129804 A1 * 4/2020 Colburn A63B 22/0664
 2020/0298042 A1 * 9/2020 Hsieh A63B 22/0056

* cited by examiner

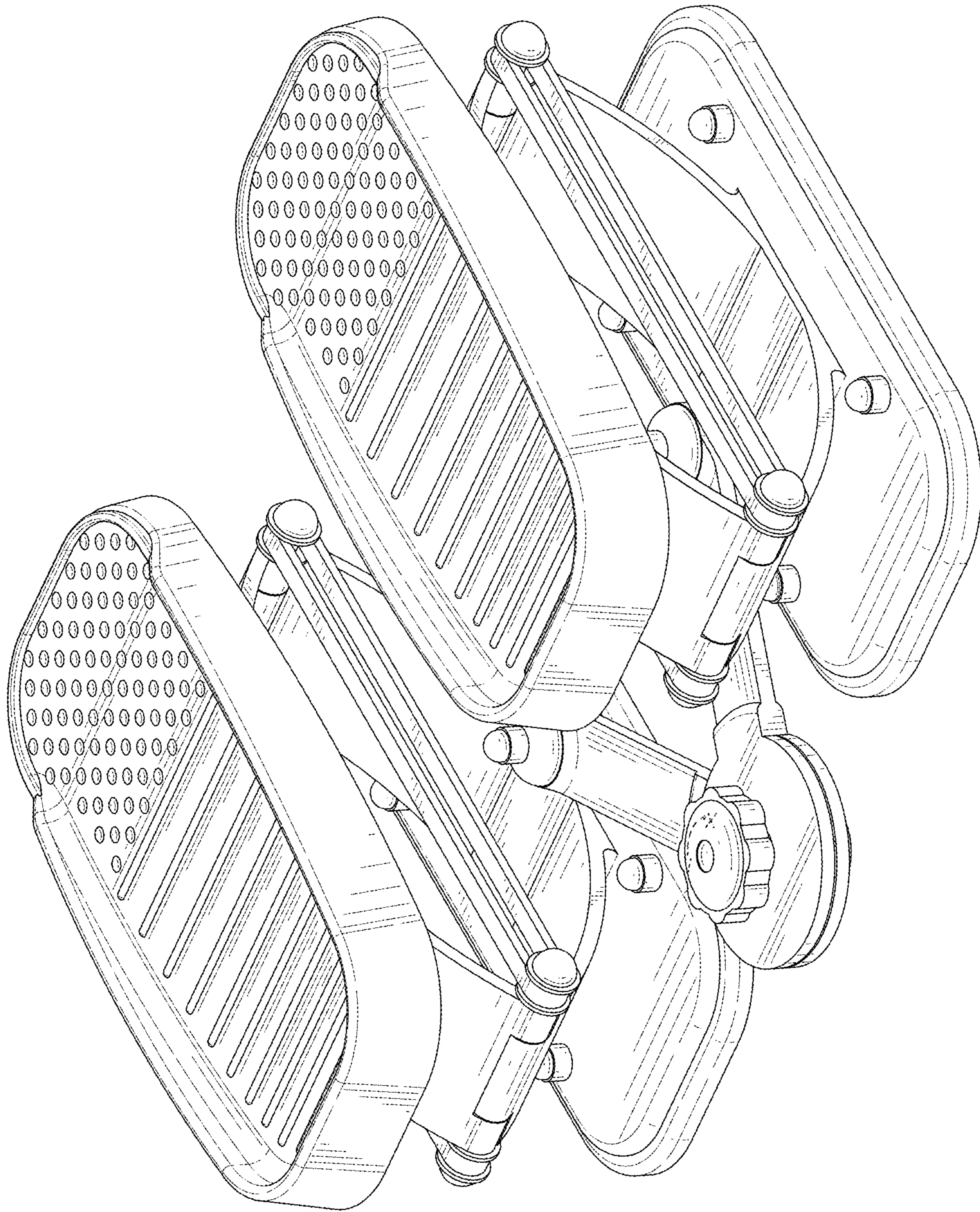


FIG. 1

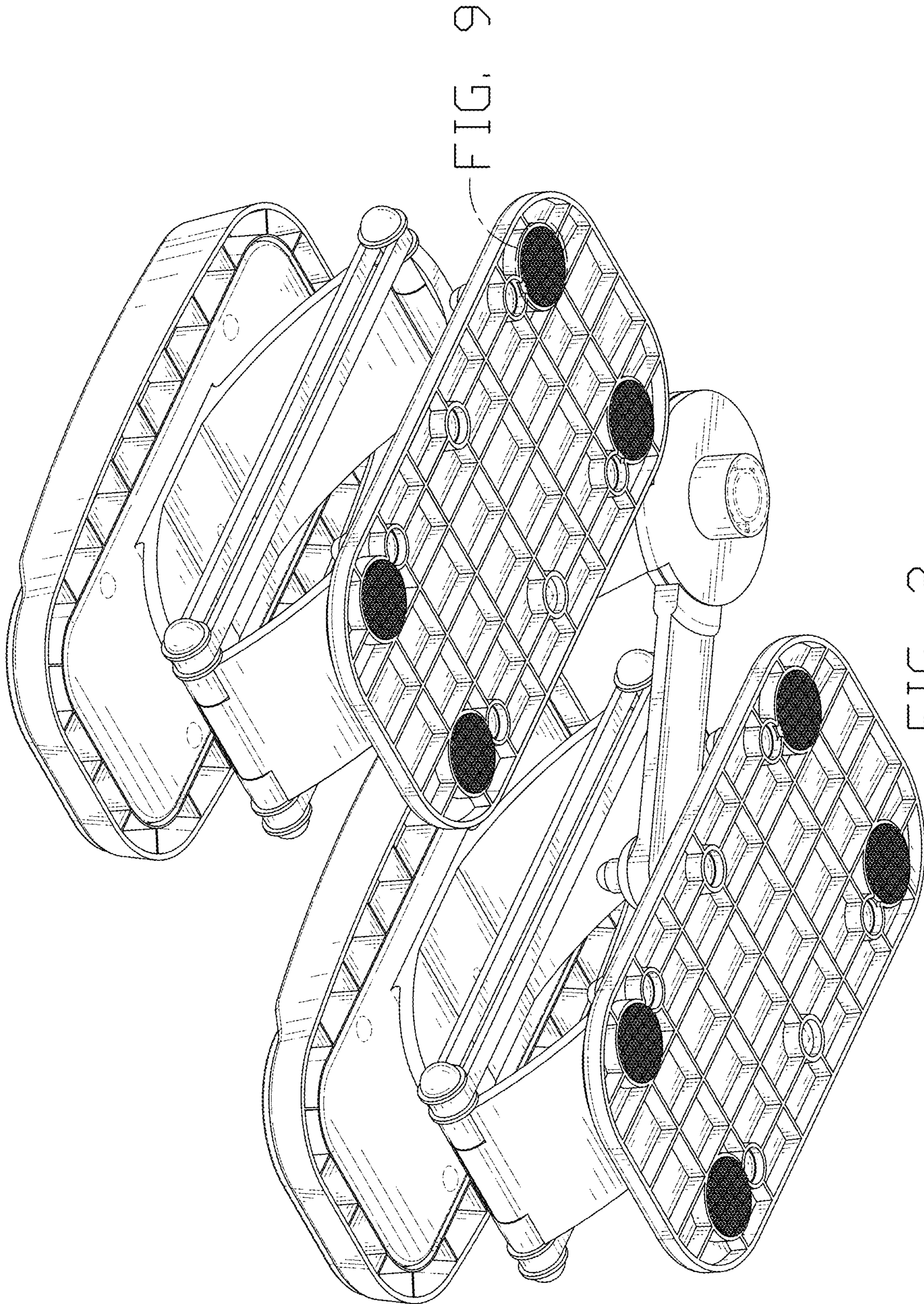


FIG. 2

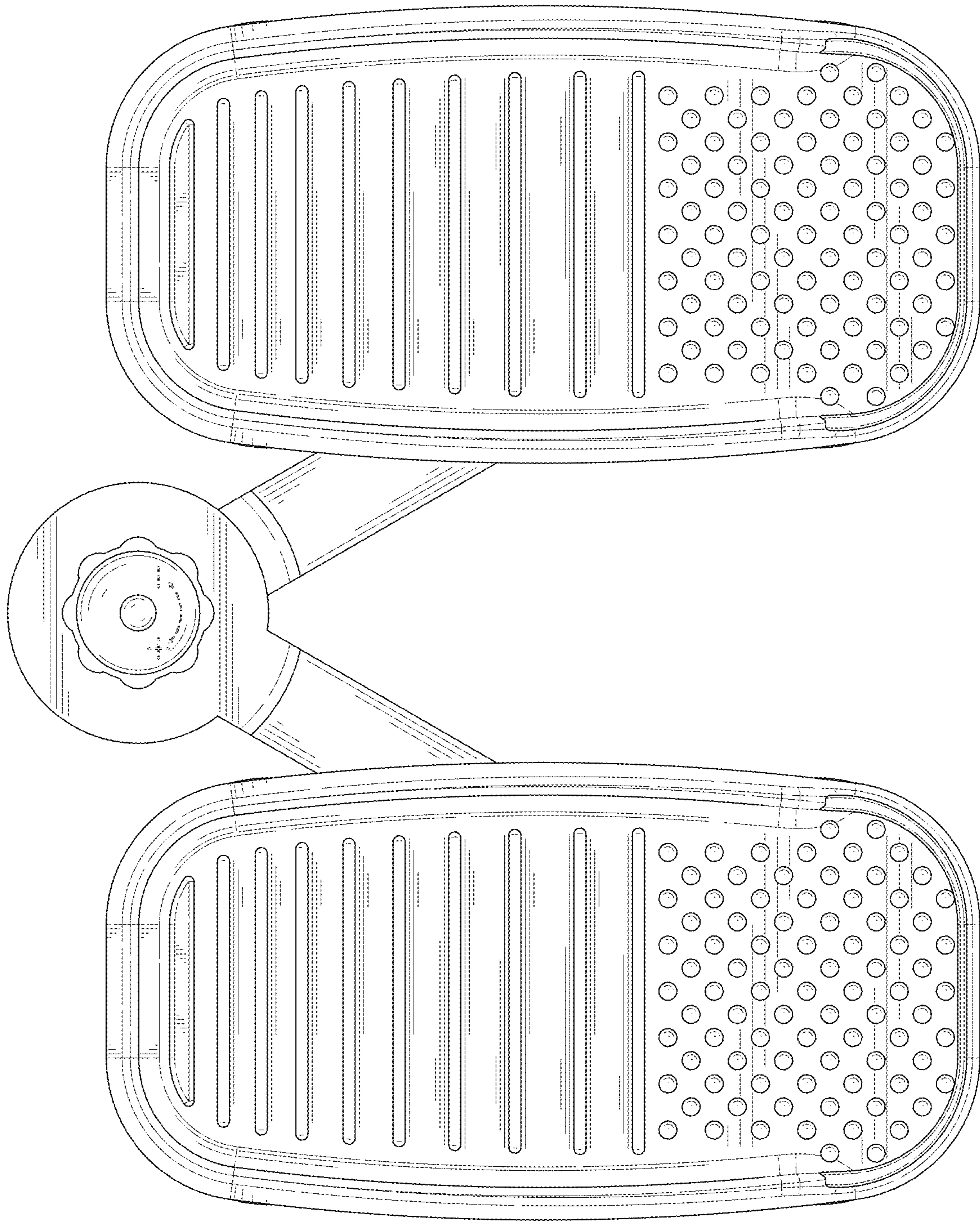


FIG. 3

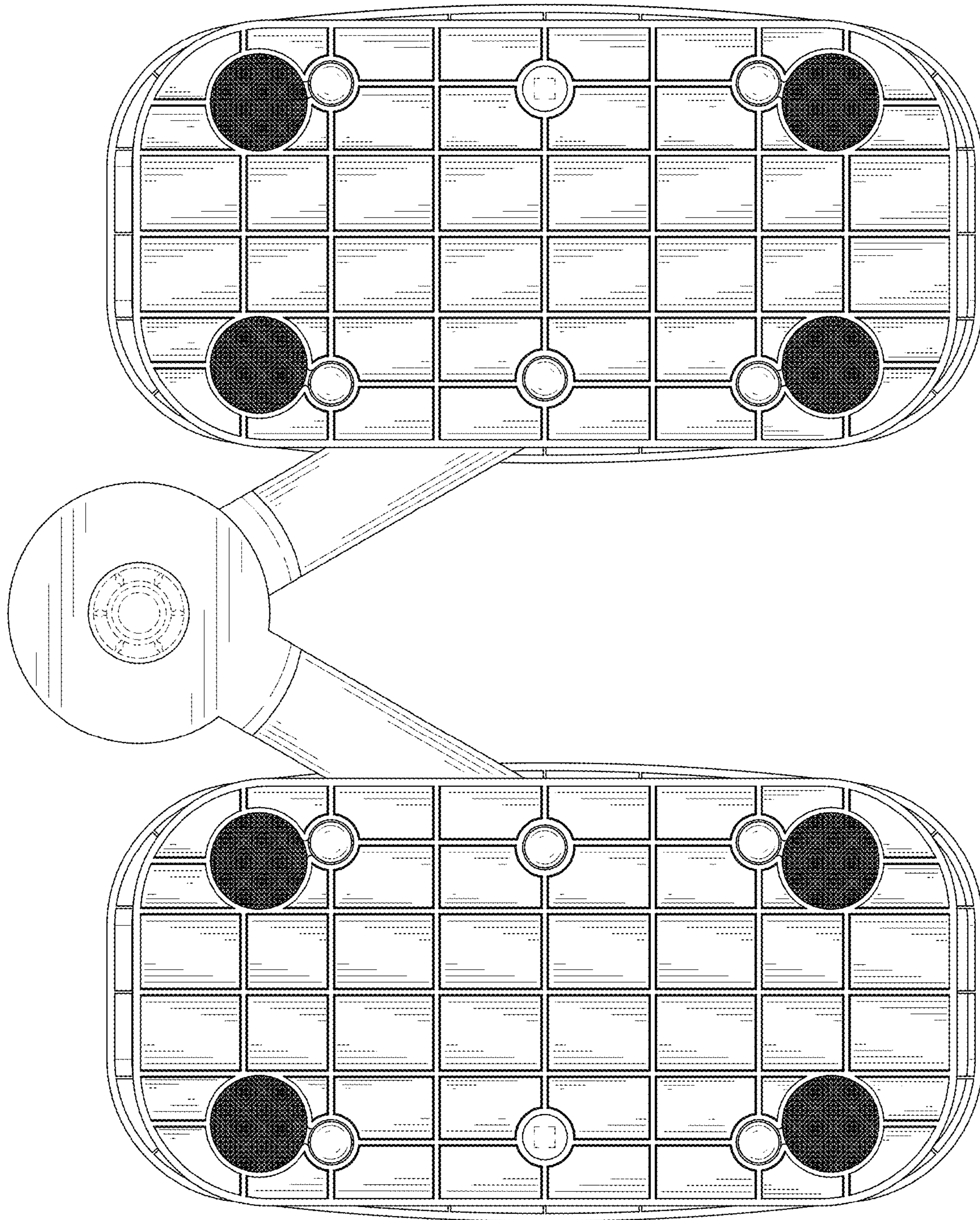


FIG. 4

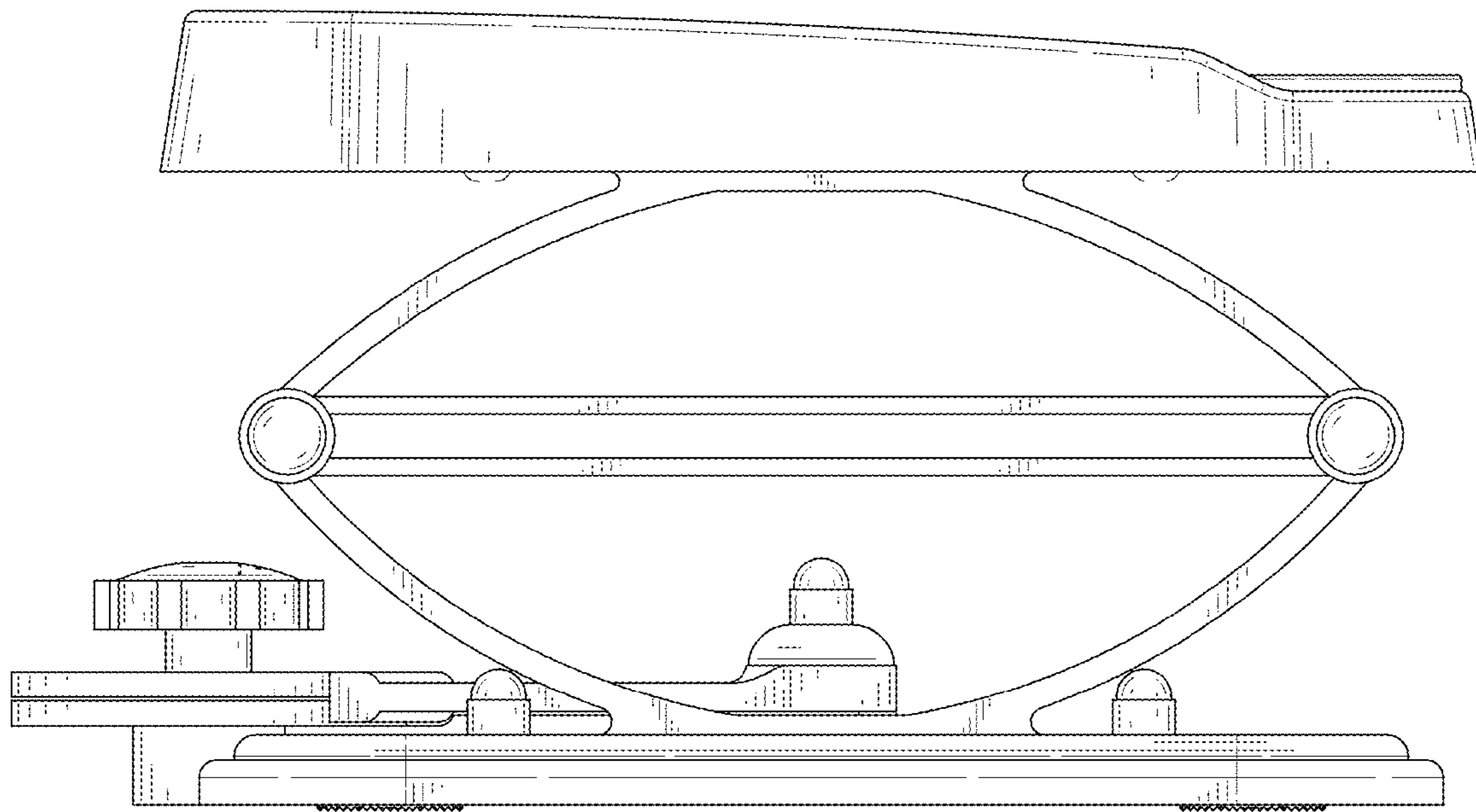


FIG. 5

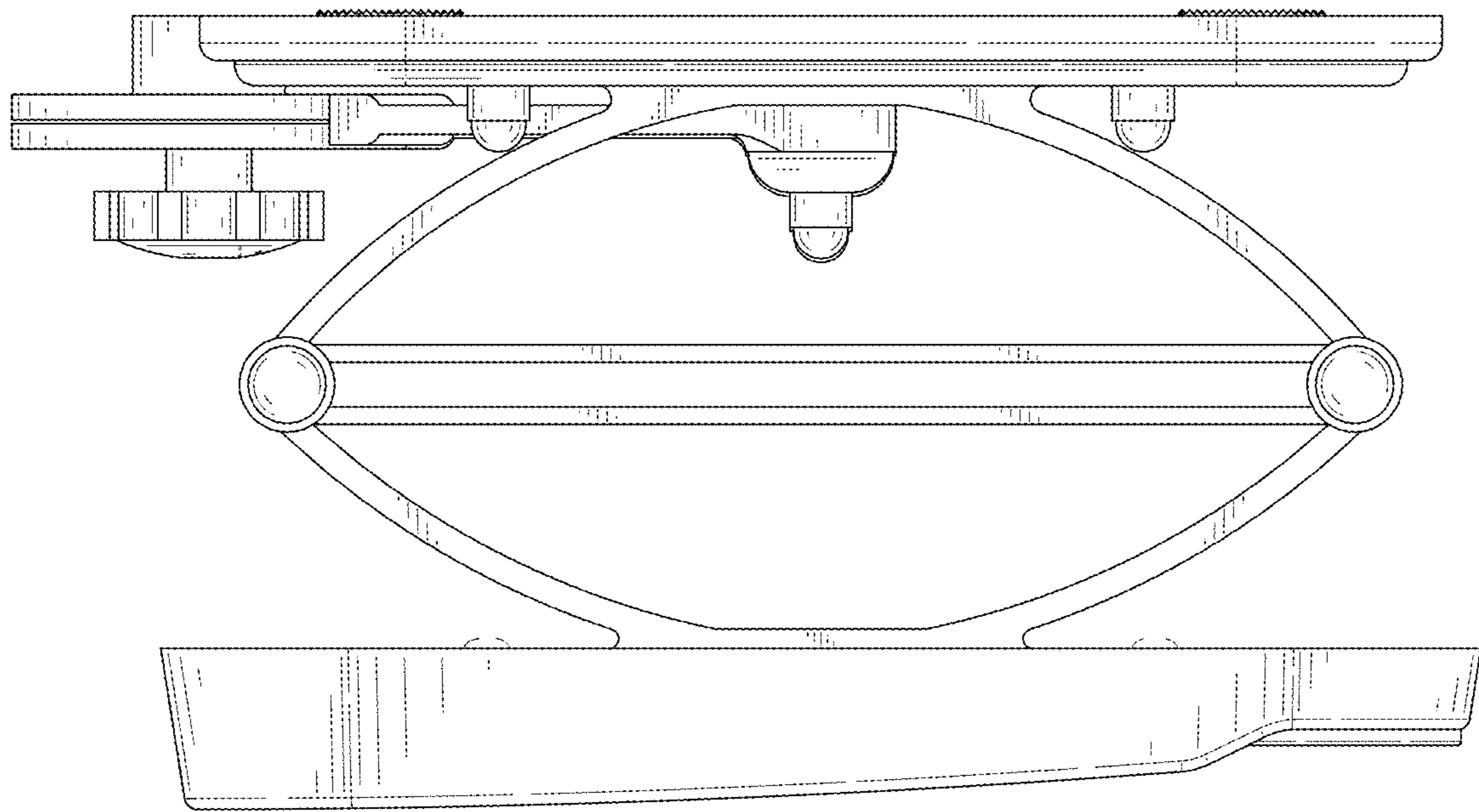


FIG. 6

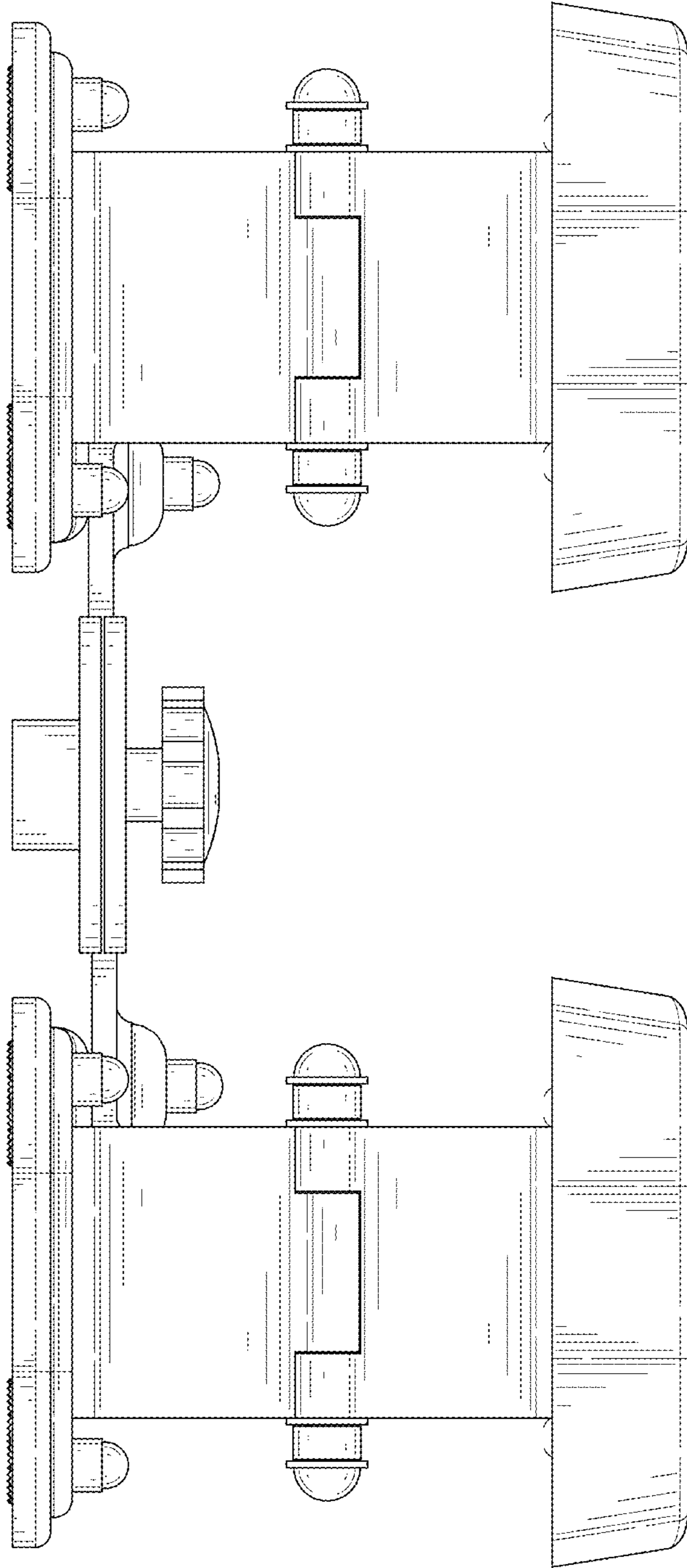


FIG. 7

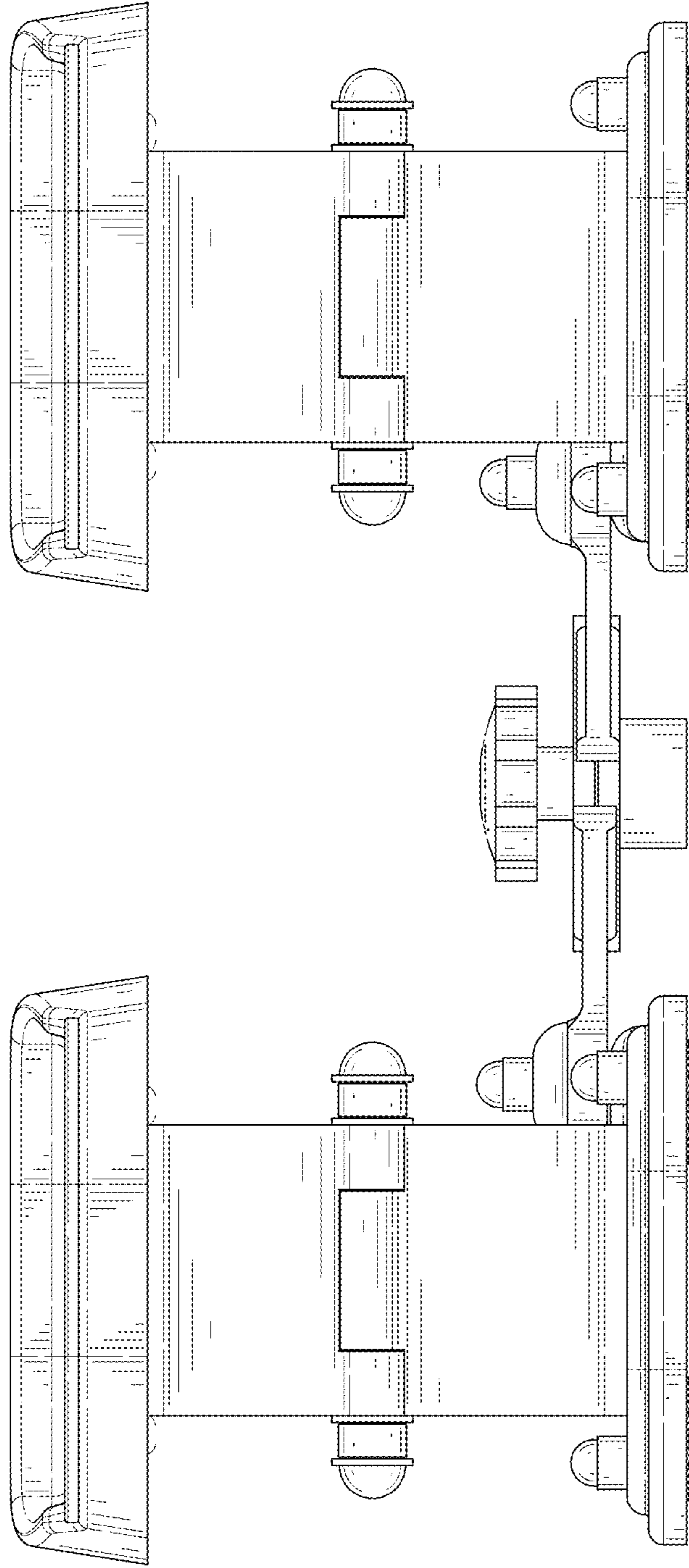


FIG. 8

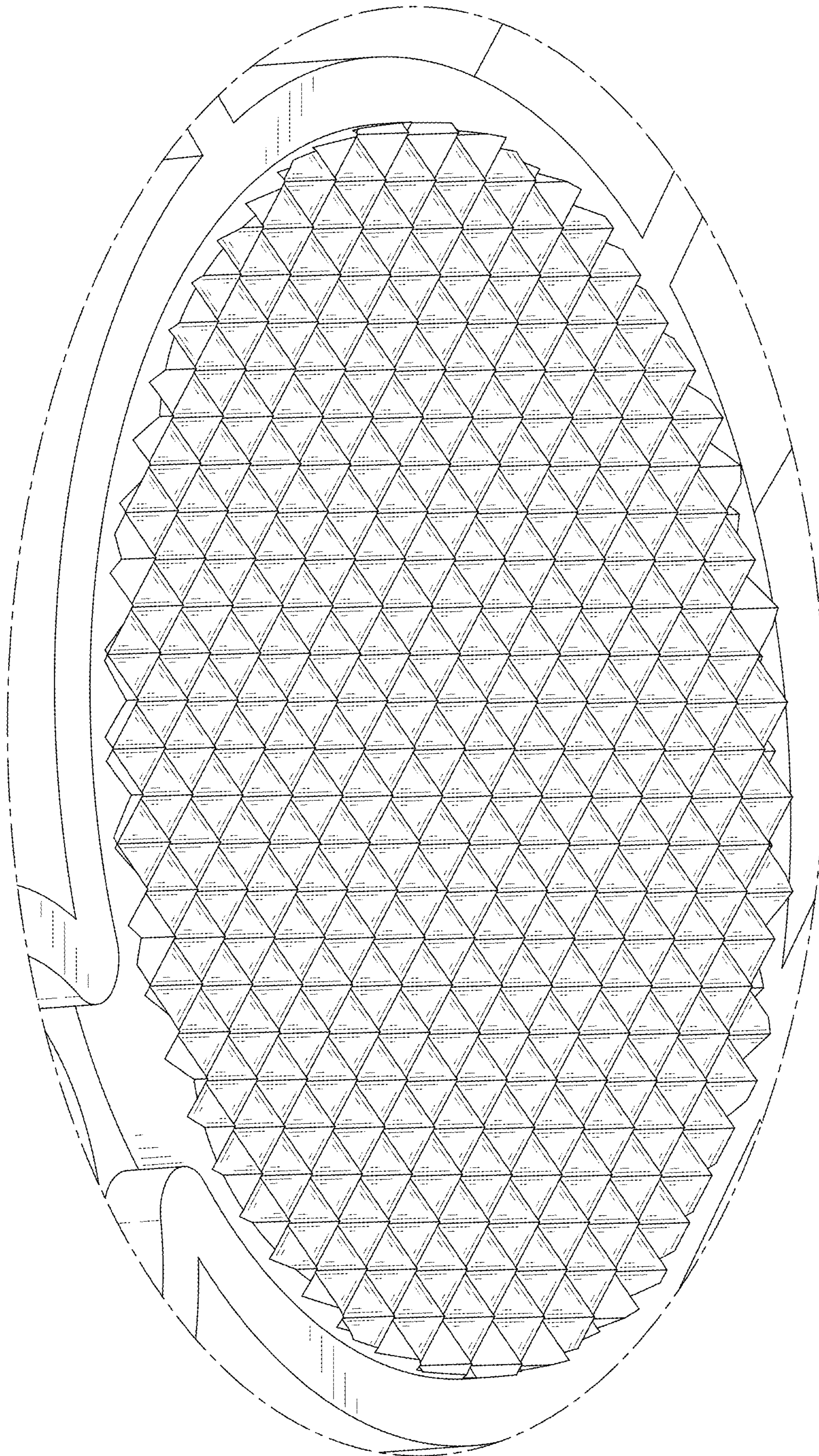


FIG. 9