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

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(54) **SWING HULA HOOP**

(71) Applicant: **Gangzhong Xu, Yongchun (CN)**

(72) Inventor: **Gangzhong Xu, Yongchun (CN)**

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (14) Cl.** **21-01**

(52) **U.S. Cl.**
USPC **D21/457**

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D21/694; D24/200, 211, 215; 482/110;
601/23, 121, 124
CPC A63B 19/00; A63B 19/02; A63B 21/0004;
A63B 21/0608; A63B 21/0609; A63B
21/0618; A63B 21/065; A63B 21/22;
A63B 21/222; A63B 21/4009; A63B
21/4025; A63B 23/0205; A63B 23/0211;
A63B 2213/00; A61H 15/0028
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,997,449 A * 12/1999 Lee A63B 19/00
446/236
D442,094 S 5/2001 Seo
D442,234 S 5/2001 Seo
6,231,420 B1 * 5/2001 Lin A63B 19/00
446/241
D447,192 S 8/2001 Kim

D450,097 S 11/2001 Seo
D458,651 S 6/2002 Lee
D847,910 S 5/2019 Yoon
D937,357 S * 11/2021 Ju D21/457
D954,857 S * 6/2022 Yang D21/662
2013/0289454 A1 * 10/2013 Wang A61H 15/00
601/132
2014/0342882 A1 * 11/2014 Huang A63B 21/222
482/110
2017/0100620 A1 * 4/2017 Hsiao A63B 21/0618

FOREIGN PATENT DOCUMENTS

CN 204092930 U * 1/2015
CN 208193474 U * 12/2018
CN 305897453 * 7/2020
CN 112915456 A * 6/2021 A63B 19/02
CN 213313130 U * 6/2021
CN 306993562 * 12/2021
KR 200232242 Y1 * 9/2001

* cited by examiner

Primary Examiner — Michael A. Pratt
(74) *Attorney, Agent, or Firm* — Rumit Ranjit Kanakia

(57) **CLAIM**

The ornamental design for a swing hula hoop, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a swing hula hoop showing my new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a right-side view thereof;
FIG. 5 is a left-side view thereof;
FIG. 6 is a top view thereof; and,
FIG. 7 is a bottom view thereof.

1 Claim, 7 Drawing Sheets

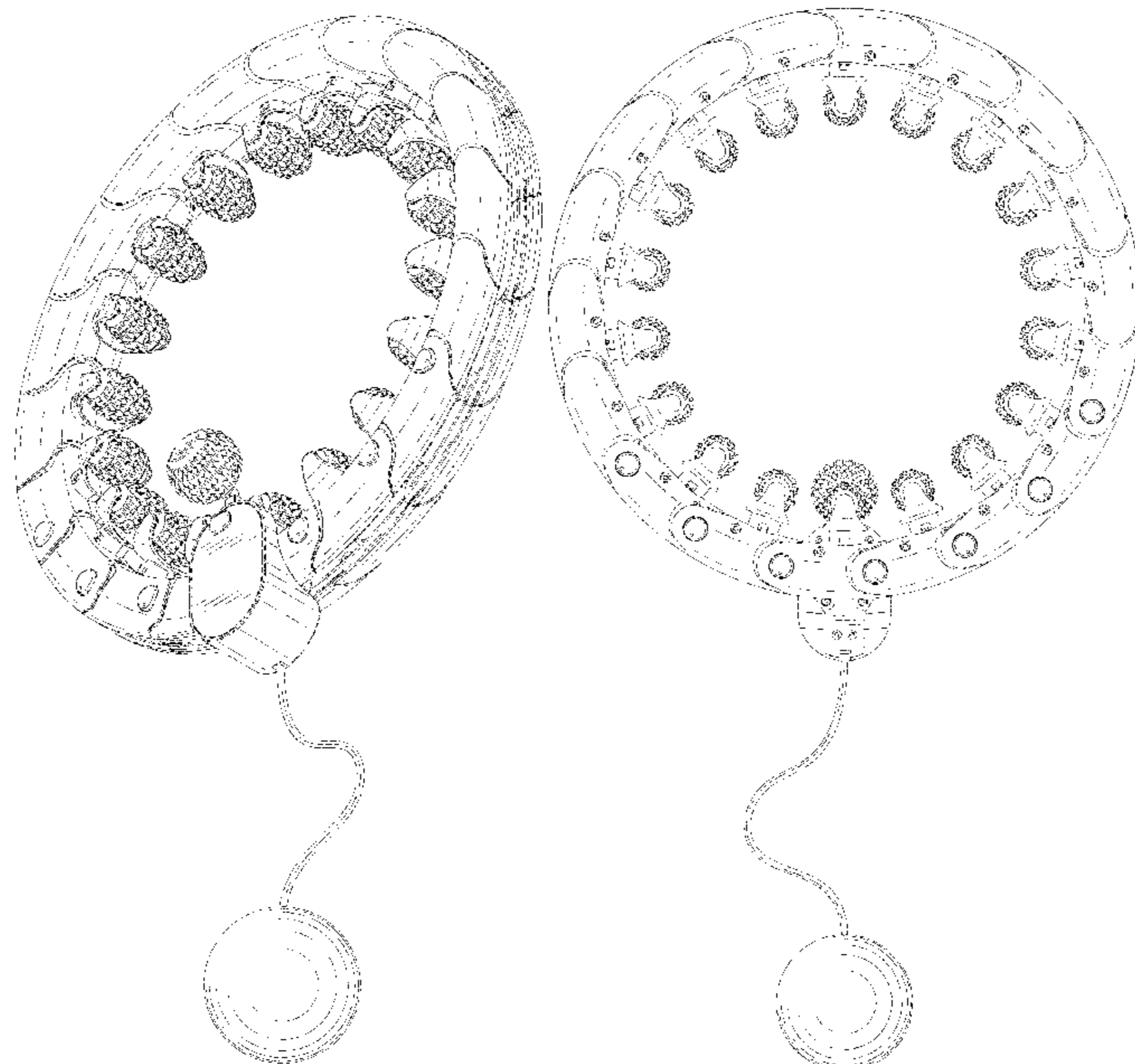




FIG. 1

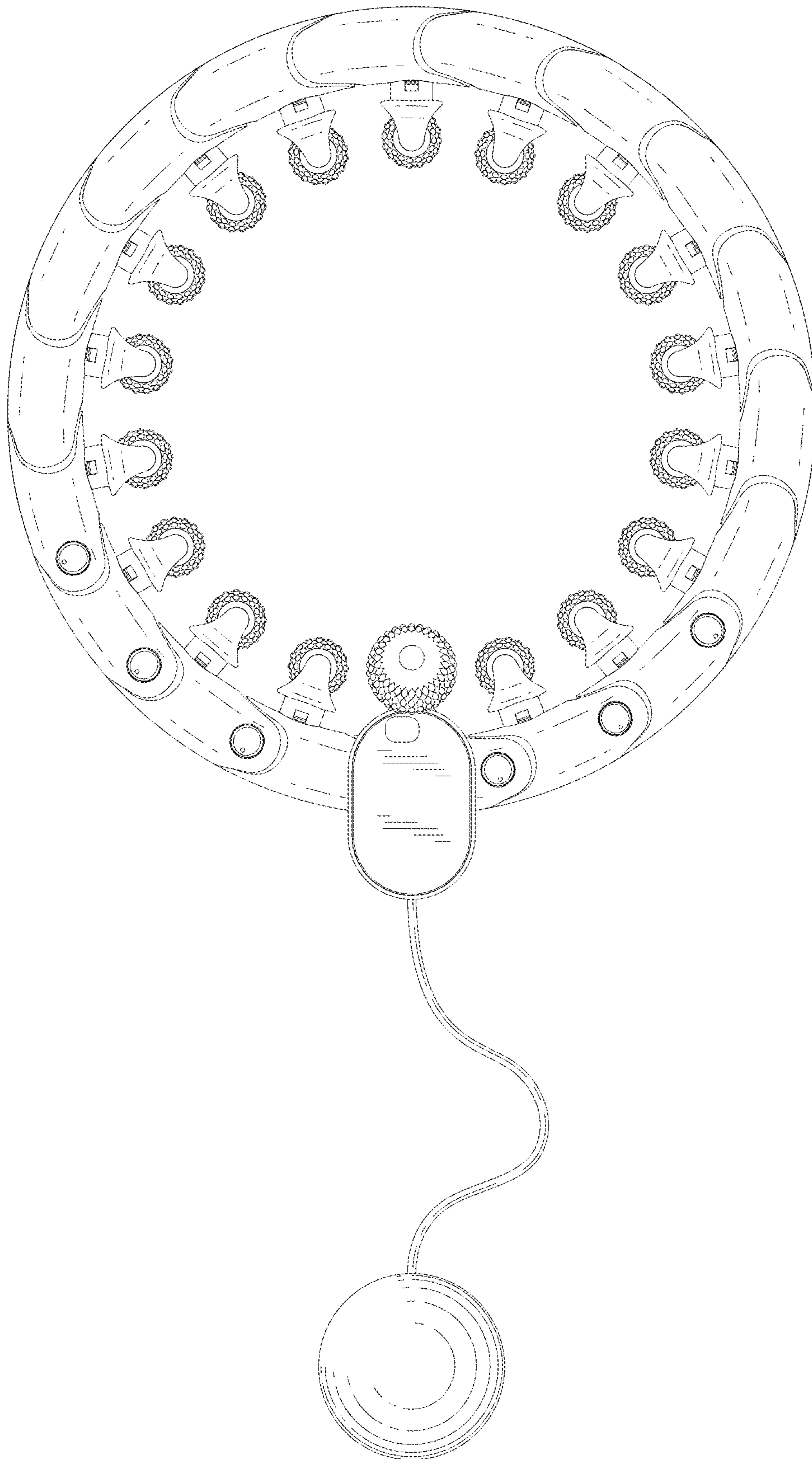


FIG. 2

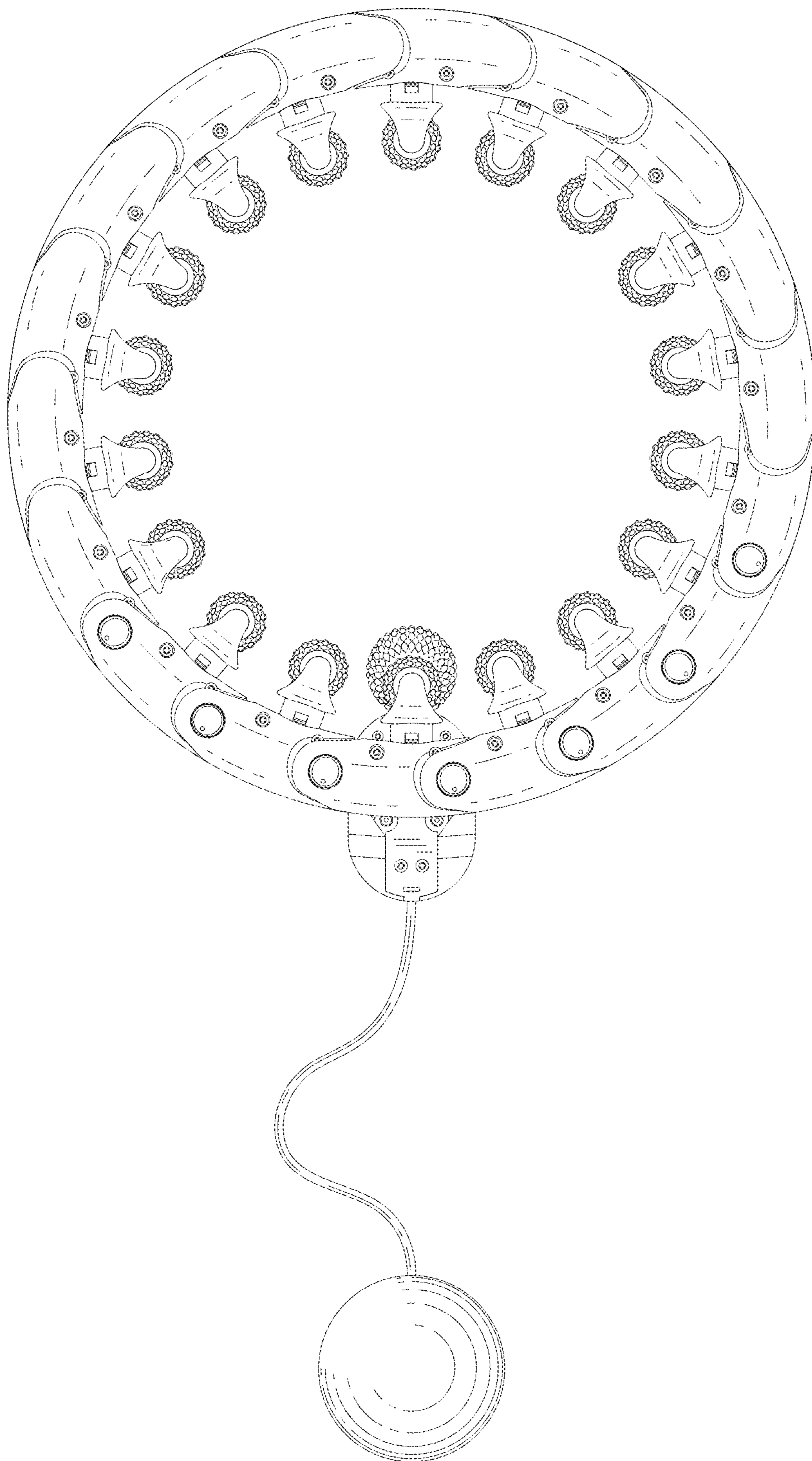


FIG. 3

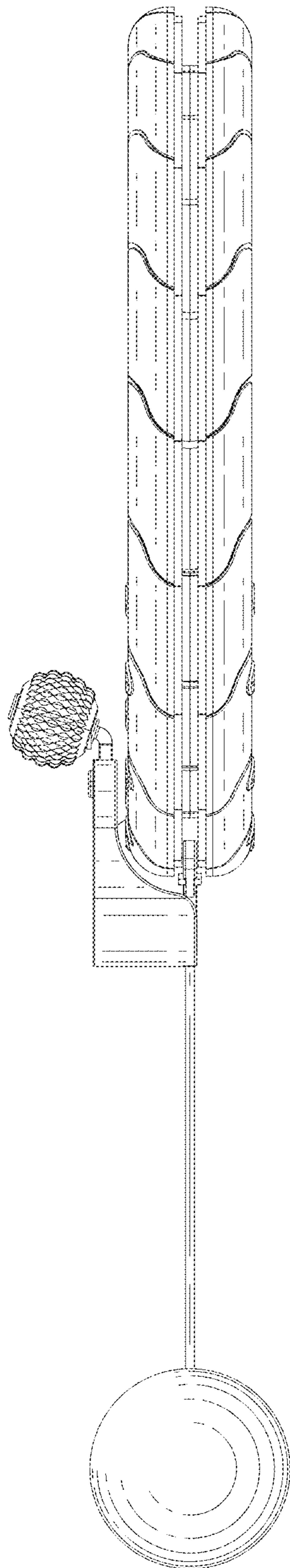


FIG. 4

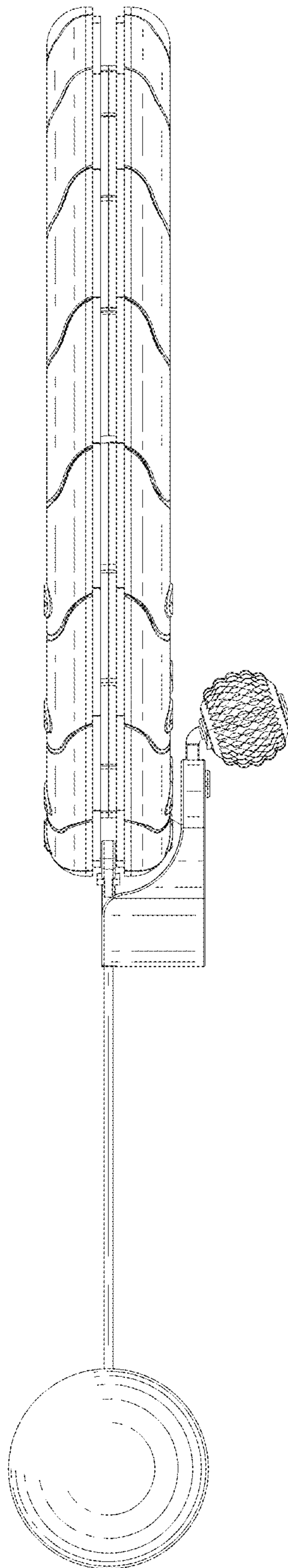


FIG. 5

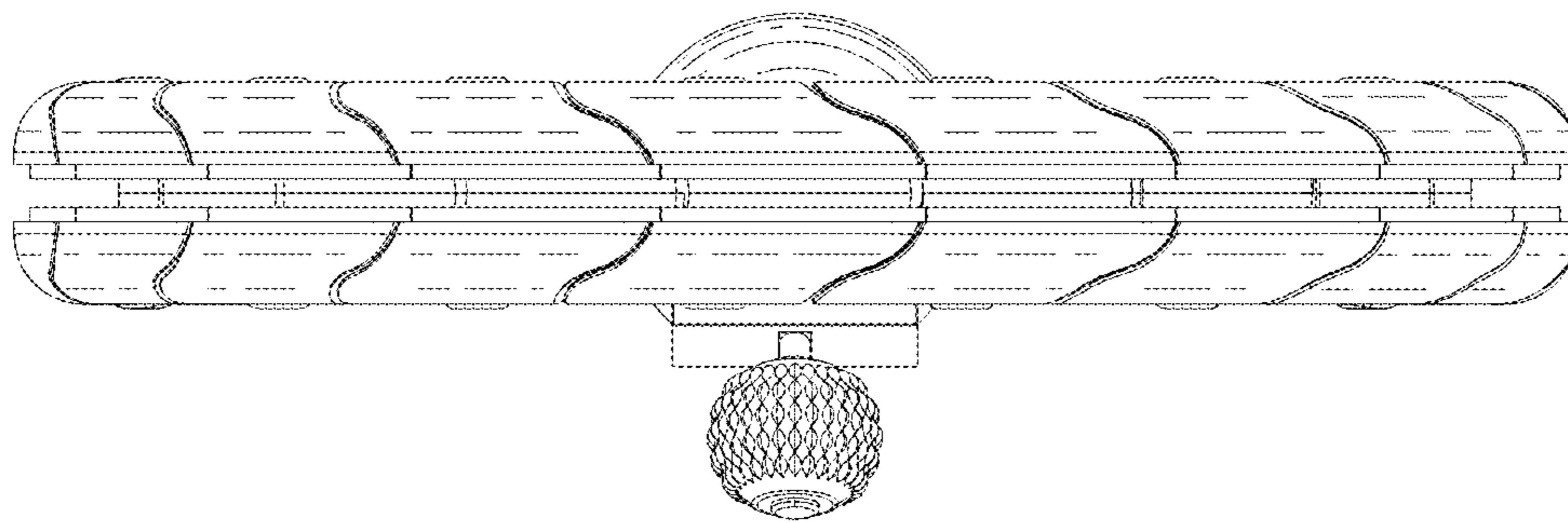


FIG. 6

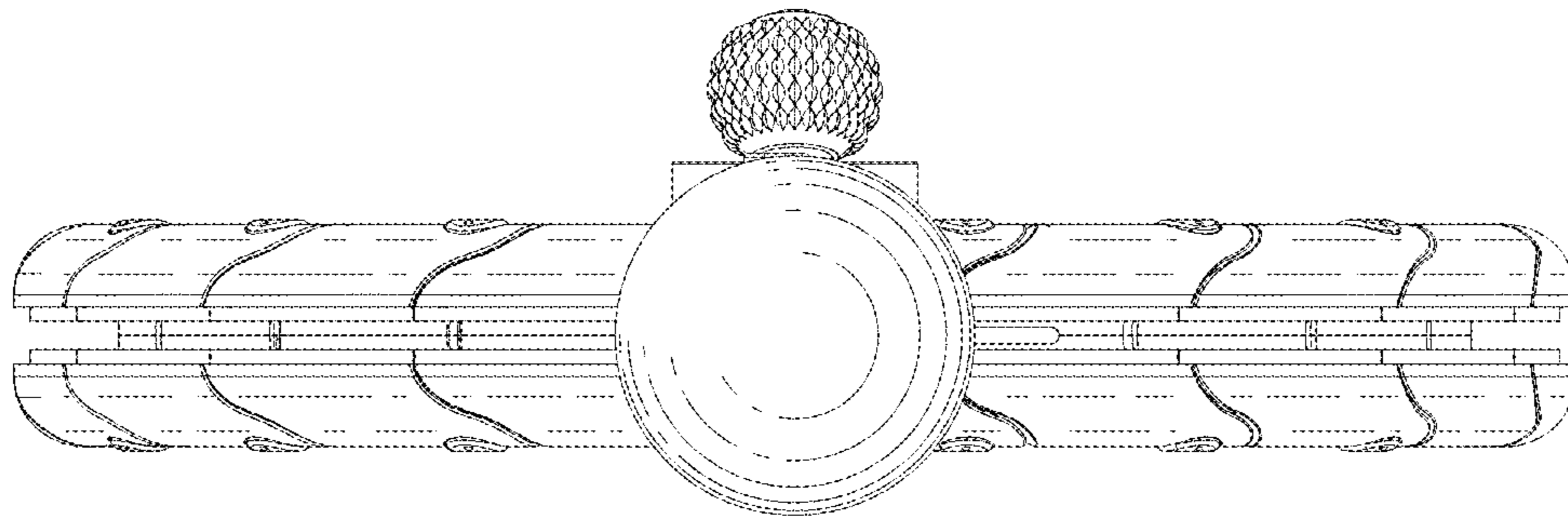


FIG. 7