

US00D967882S

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

(10) **Patent No.:** **US D967,882 S**

(45) **Date of Patent:** **** Oct. 25, 2022**

(54) **LINEAR ACTUATOR**

(71) Applicant: **LINAK A/S**, Nordborg (DK)

(72) Inventor: **Morten Svendsen**, Rødekro (DK)

(73) Assignee: **Linak A/S**, Nordborg (DK)

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

(21) Appl. No.: **29/748,450**

(22) Filed: **Aug. 28, 2020**

(30) **Foreign Application Priority Data**

Mar. 3, 2020 (DK) DA 2020 00026

(51) **LOC (13) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/148**

(58) **Field of Classification Search**
USPC D15/1-5, 7, 9, 143, 148, 149, 199;
D13/118, 158, 162, 184
CPC F16H 2025/2031; F16H 2025/2084; F16H
2025/204; F16H 2025/2037; F16H
2061/326
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | |
|-------------------|---------|-------------|-------|-------------------------|
| D523,880 S * | 6/2006 | Christensen | ..... | D15/143 |
| D695,798 S * | 12/2013 | Wu | ..... | D15/143 |
| D776,729 S * | 1/2017 | Wu | ..... | D15/143 |
| D806,151 S * | 12/2017 | Landerholm | ..... | D15/143 |
| D809,038 S * | 1/2018 | Zhuang | ..... | D15/148 |
| D855,670 S * | 8/2019 | Zhuang | ..... | D15/148 |
| 2007/0169578 A1 * | 7/2007 | Christensen | ..... | F16H 25/2021 74/625 |
| 2008/0150749 A1 * | 6/2008 | Lin | ..... | G08C 17/02 340/13.24 |
| 2008/0184828 A1 * | 8/2008 | Chen | ..... | F16H 25/20 74/25 |

| | | | | |
|-------------------|---------|----------|-------|------------------------|
| 2012/0222509 A1 * | 9/2012 | Winther | ..... | F16H 25/20 74/89 |
| 2015/0180306 A1 * | 6/2015 | Nakamura | ..... | H02K 13/10 310/68 R |
| 2019/0390751 A1 * | 12/2019 | Sorensen | ..... | G01B 7/003 |
| 2020/0132175 A1 * | 4/2020 | Knudsen | ..... | F16H 25/20 |

OTHER PUBLICATIONS

Product Brochure for TiMotion MA2 Series Linear Actuator (5 pgs.), with date of Apr. 11, 2017.

(Continued)

Primary Examiner — Lauren R Calve

(74) *Attorney, Agent, or Firm* — Dykema Gossett PLLC

(57) **CLAIM**

The ornamental design for a linear actuator, as shown and described.

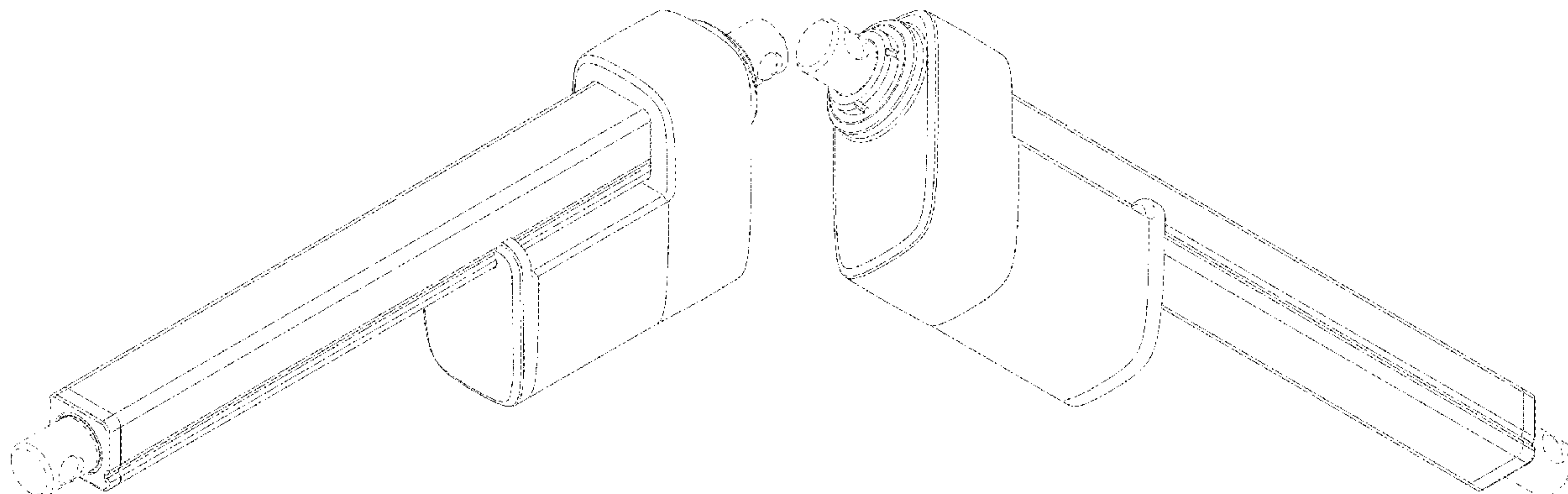
DESCRIPTION

FIG. 1 is a front perspective view of the linear actuator seen from the top;
FIG. 2 is a rear perspective view seen from the bottom thereof;
FIG. 3 is a first side elevation view thereof;
FIG. 4 is a second, opposing side elevation view thereof;
FIG. 5 is a bottom plan view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a front end elevation view thereof; and,
FIG. 8 is a rear end elevation view thereof.

The linear actuator can be used in various applications for example only with industrial applications such as agricultural machinery, vehicles, industrial automation, lifts, and the like.

The features shown in broken lines in the drawings depict portions of the linear actuator which form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

OTHER PUBLICATIONS

Data Sheet for LINAK Linear Actuator LA36 (2 pgs.), retrieved from <https://web.archive.org/web/20170603060448/https://www.linak.com/products/linear-actuators/la36/>, (Wayback Machine), with date of Jun. 3, 2017.

Data Sheet for LINAK Linear Actuator LA37 (2 pgs.), retrieved from <https://web.archive.org/web/20170603051050/https://www.linak.com/products/linear-actuators/la37/>, (Wayback Machine), with date of Jun. 3, 2017.

Data Sheet for DewertOkin Linear Actuator LD1000 (2 pgs.), <https://lectura.press/en/picture/dewertokin-ld1000/53044>, with date of Sep. 9, 2019.

* cited by examiner

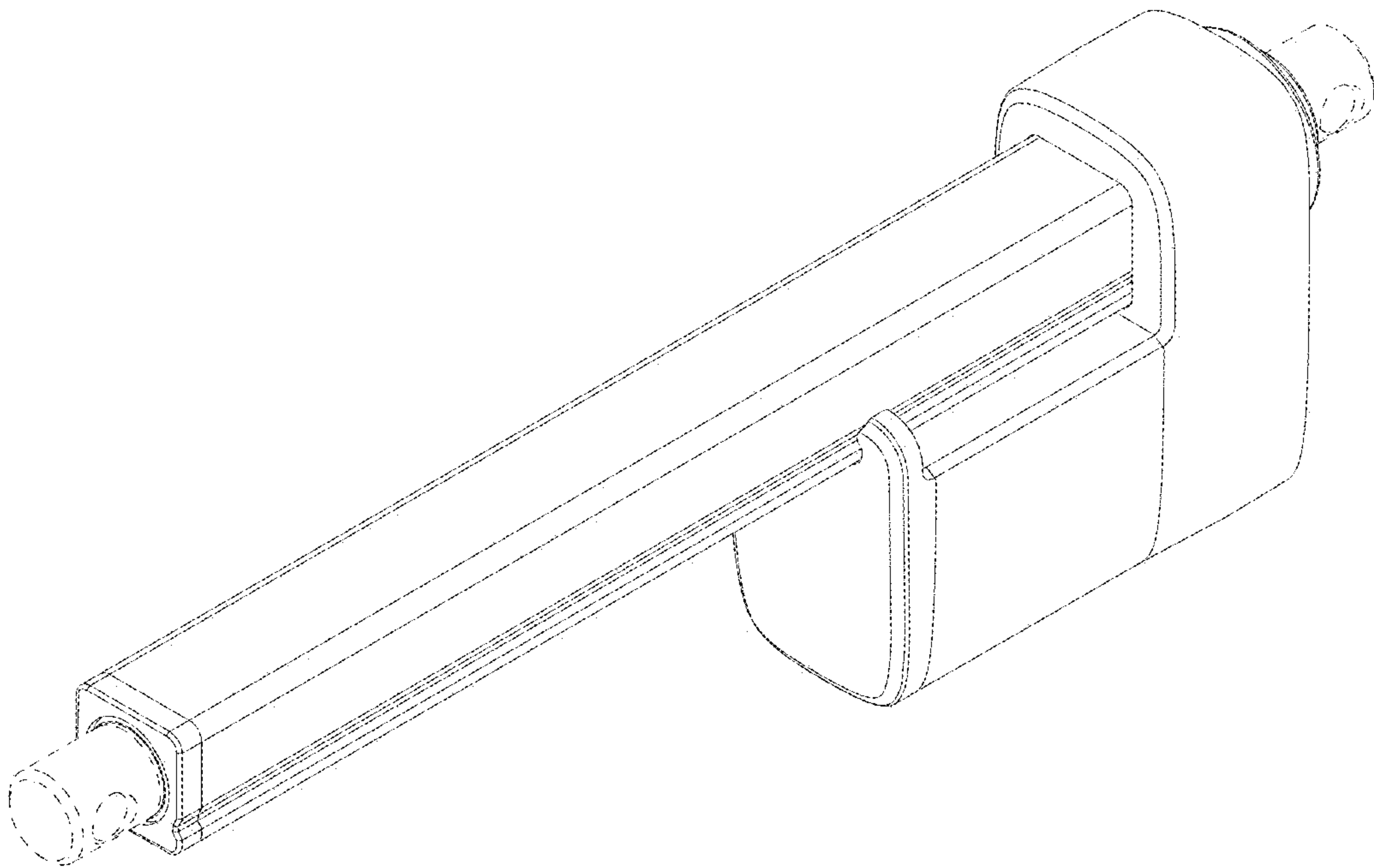


FIG. 1

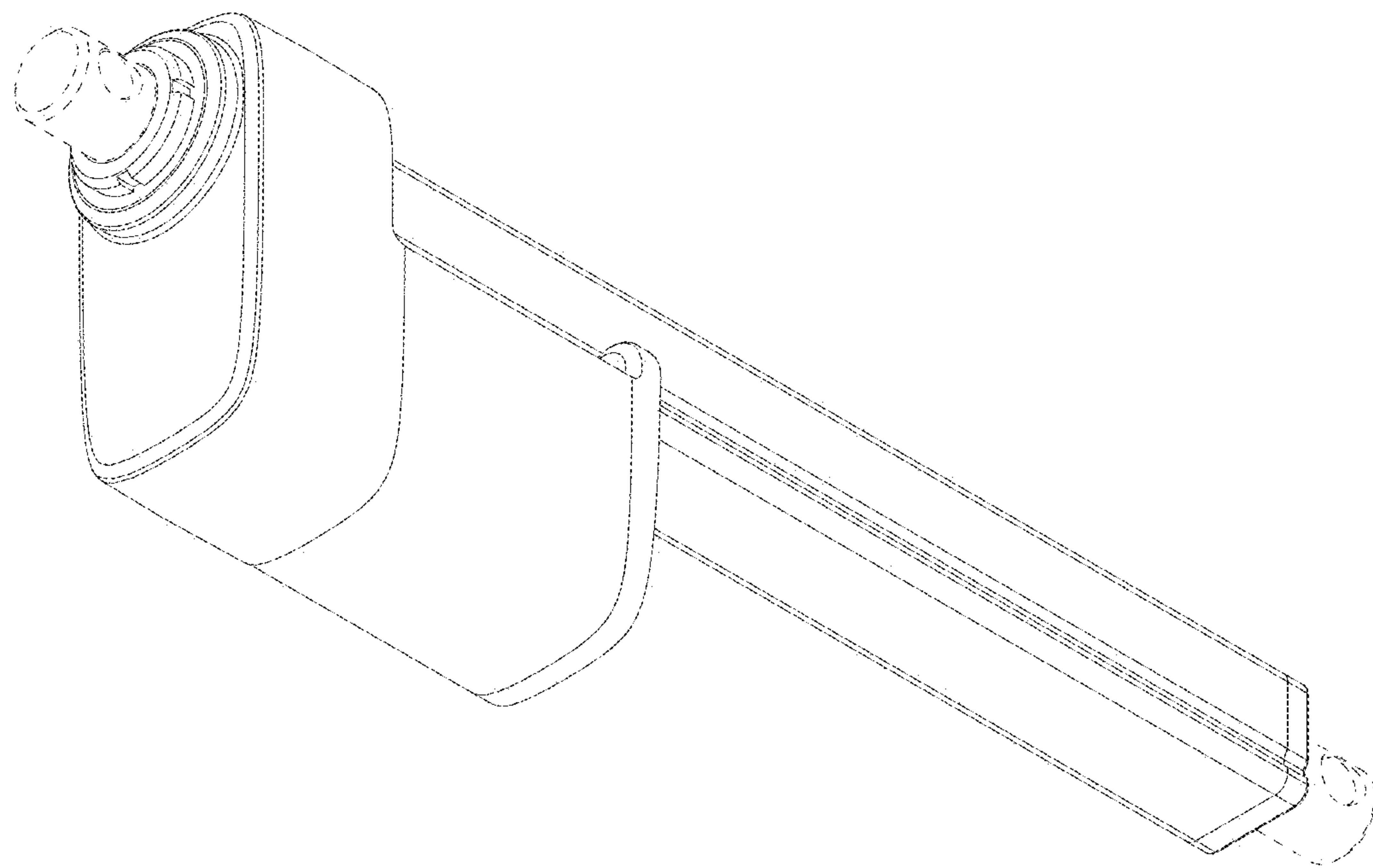


FIG. 2

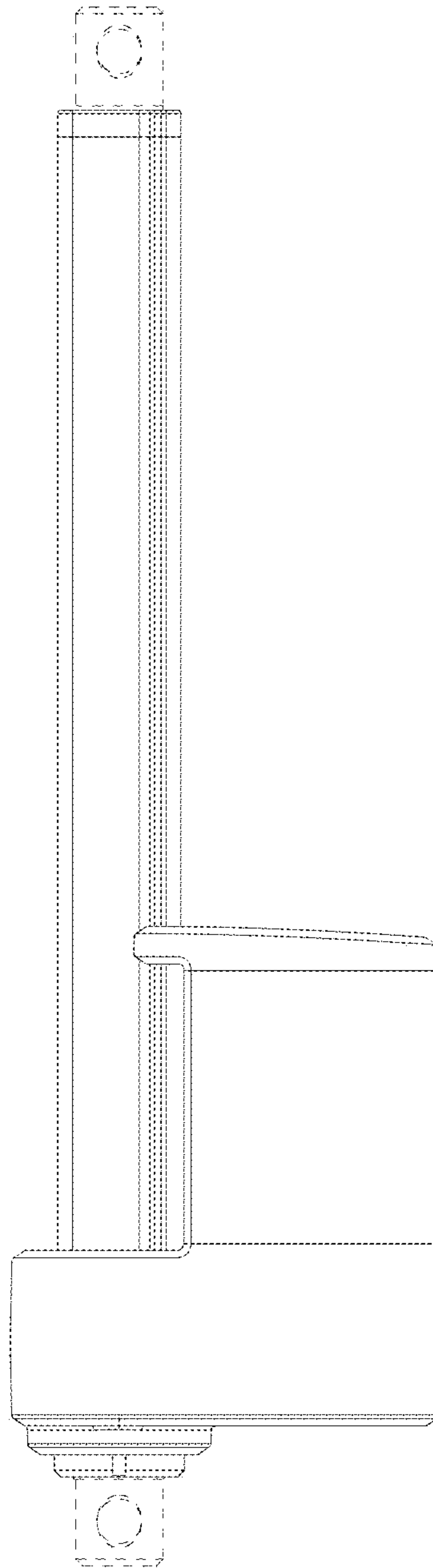


FIG. 3

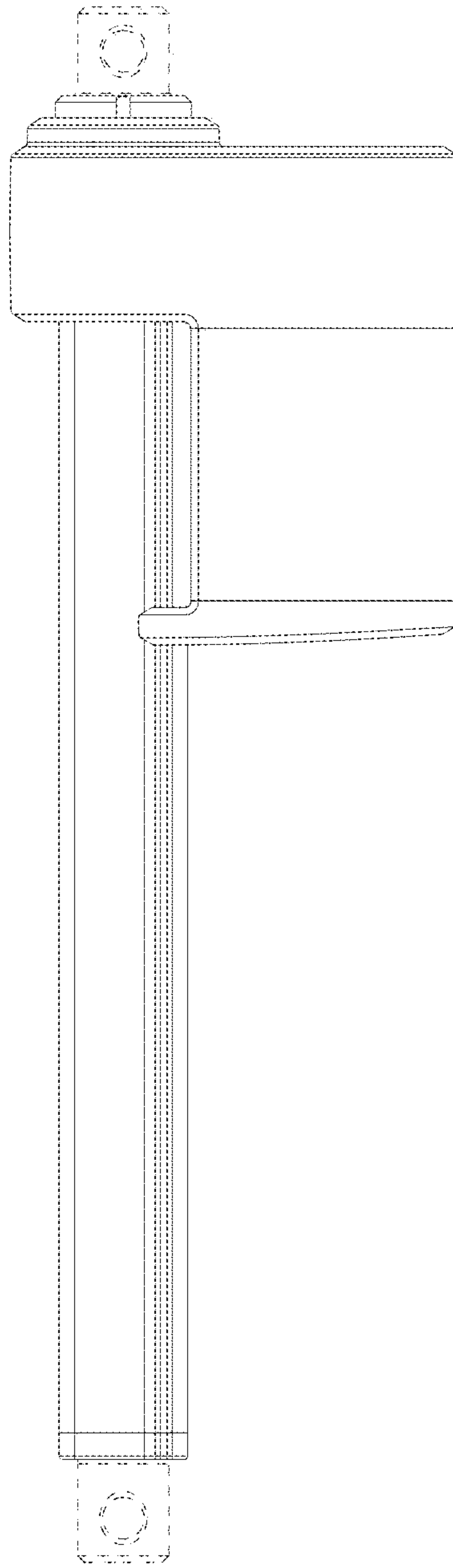


FIG. 4

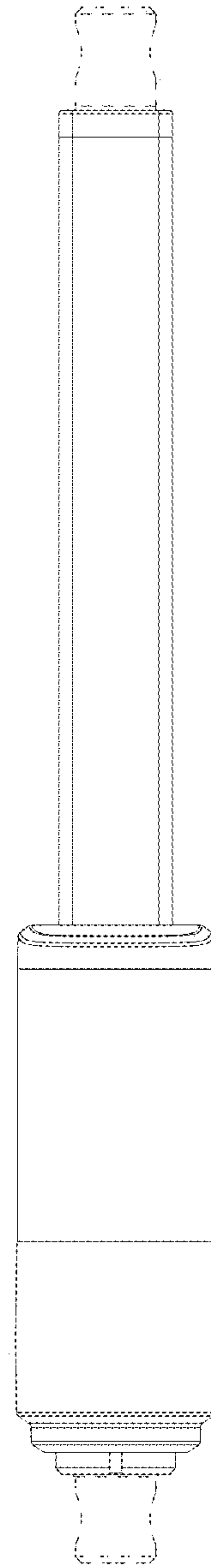


FIG. 5

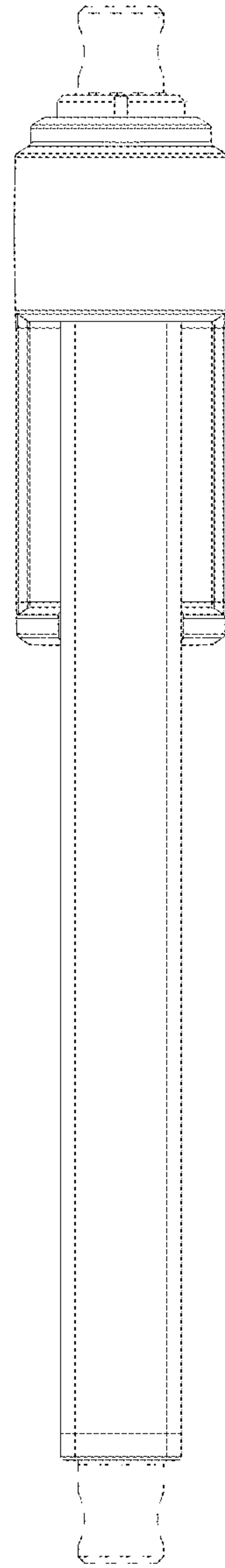


FIG. 6

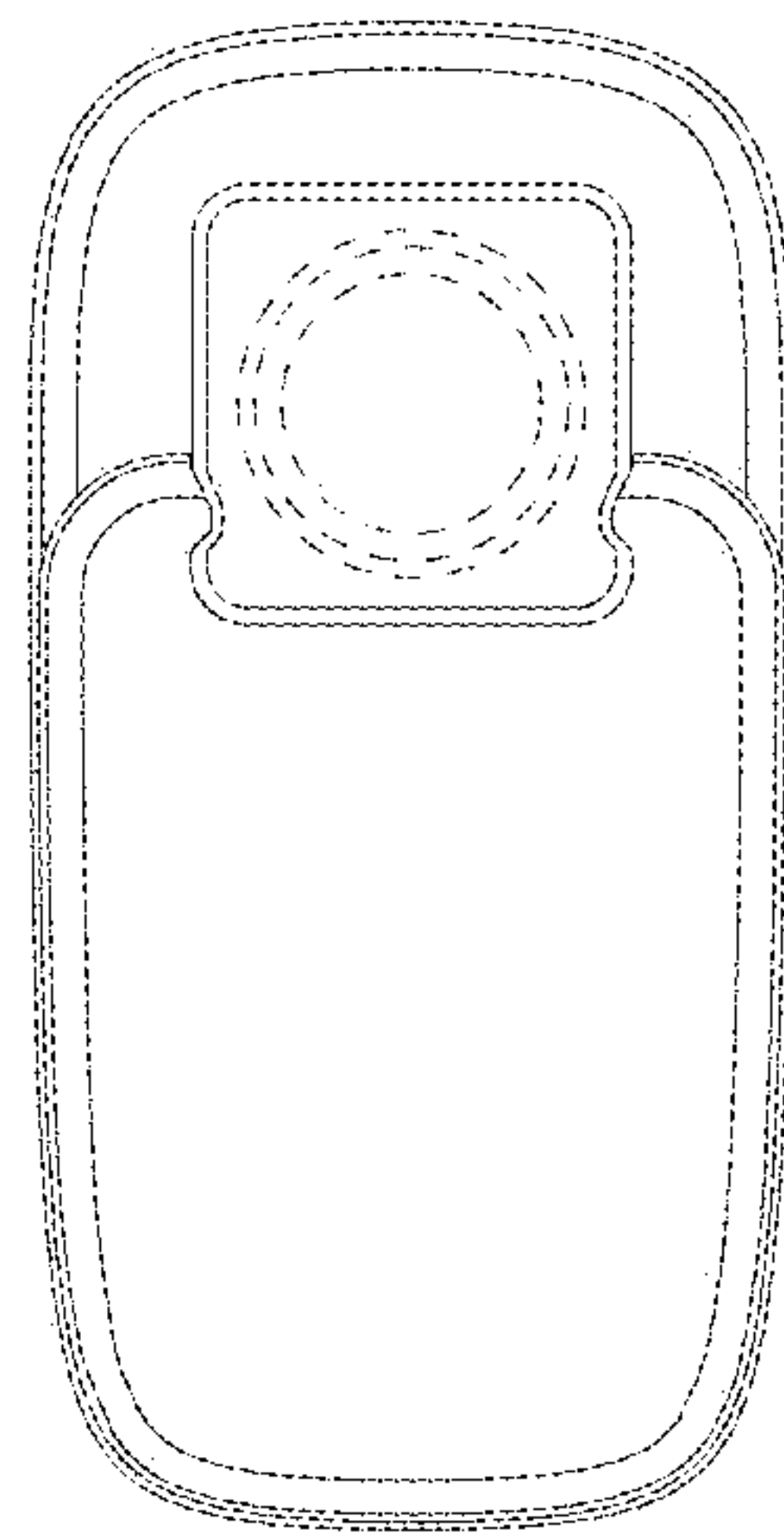


FIG. 7

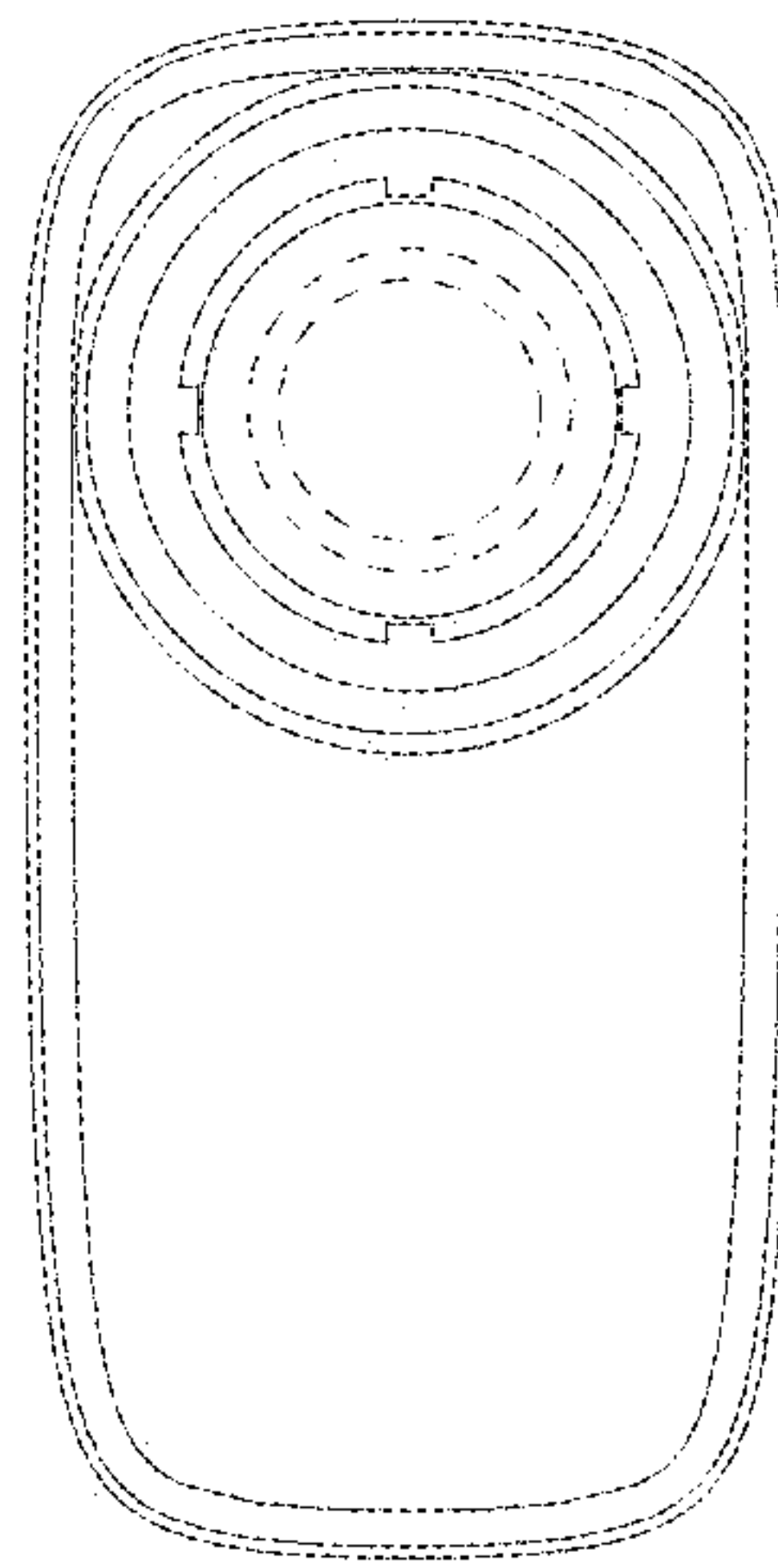


FIG. 8