



US00D798911S

(12) **United States Design Patent** (10) **Patent No.:** **US D798,911 S**  
**Chao** (45) **Date of Patent:** **\*\* Oct. 3, 2017**

(54) **HANDHELD VACUUM PUMPING DEVICE**

(71) Applicant: **BIG GOOD DESIGN CO., LTD.,**  
Taipei (TW)

(72) Inventor: **Ta-Ching Chao,** New Taipei (TW)

(73) Assignee: **Big Good Design Co., Ltd.,** Taipei  
(TW)

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

(21) Appl. No.: **29/590,571**

(22) Filed: **Jan. 11, 2017**

(51) **LOC (10) Cl.** ..... **15-02**

(52) **U.S. Cl.**  
USPC ..... **D15/7**

(58) **Field of Classification Search**  
USPC ..... D15/7-9; D23/231, 232, 225; 417/60,  
417/235, 265, 321, 355, 358, 363, 359,  
417/410.1, 415-416, 405, 900, 269, 539;  
60/408, 412; 184/26-37; 415/140-147;  
123/495, 509; 137/565.34  
CPC ..... F02M 37/04; F02M 37/14; F04B 53/92;  
F04B 1/005  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D229,235 S \* 11/1973 Bunch ..... D15/7  
D274,433 S \* 6/1984 Boller ..... D15/7  
D309,308 S \* 7/1990 Webb ..... D15/7

D313,418 S \* 1/1991 Webb ..... D15/7  
D384,678 S \* 10/1997 Kotlarek ..... D15/9  
D464,362 S \* 10/2002 Tsai ..... D15/7  
D534,187 S \* 12/2006 Sato ..... D15/9  
D694,267 S \* 11/2013 Ohm ..... D15/7

**OTHER PUBLICATIONS**

Japanese Notification of Reasons for Refusal for Japanese Appli-  
cation No. 2017-000292, dated Jun. 27, 2017, with an English  
translation.

\* cited by examiner

*Primary Examiner* — Ralf Seifert

(74) *Attorney, Agent, or Firm* — Birch, Stewart, Kolasch  
& Birch, LLP

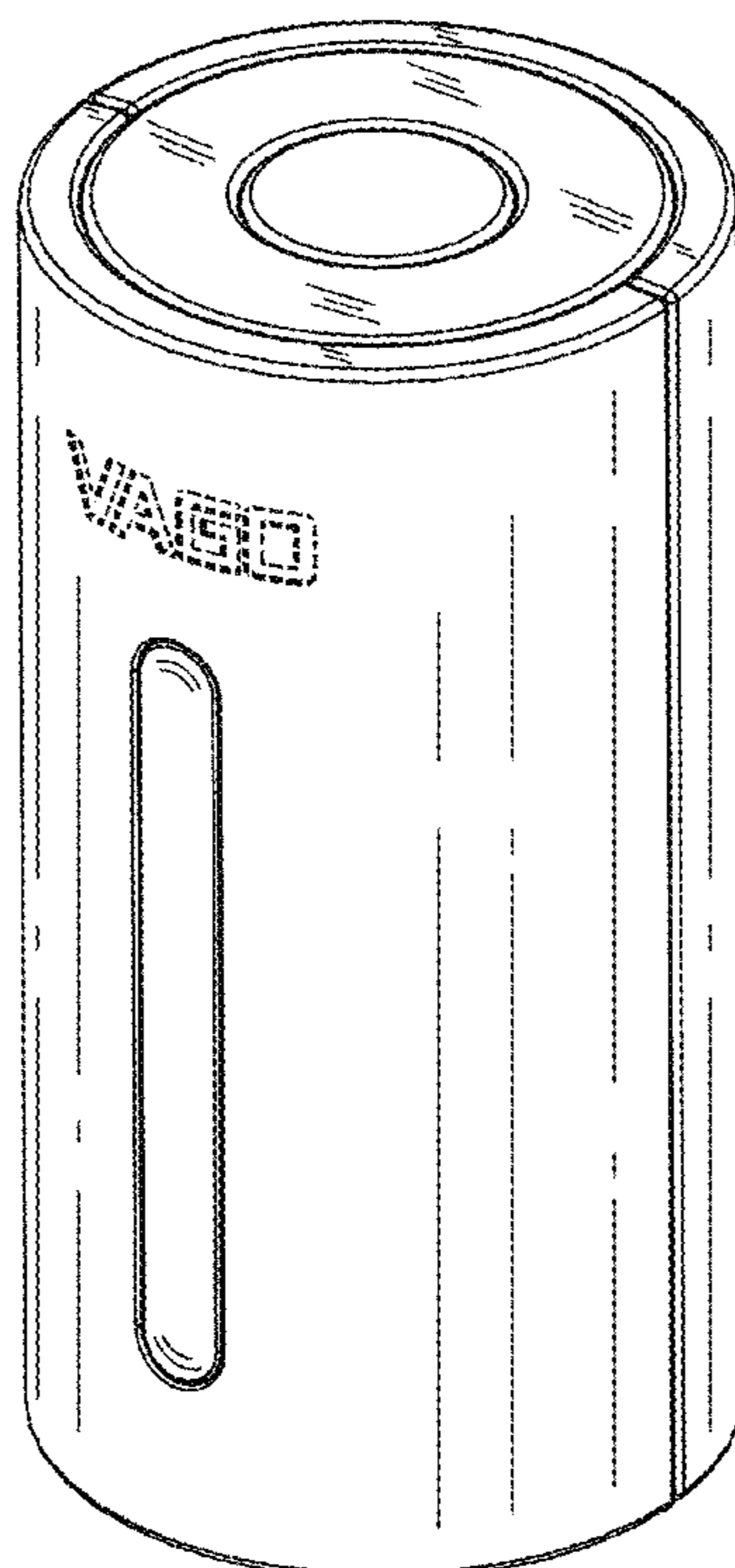
(57) **CLAIM**

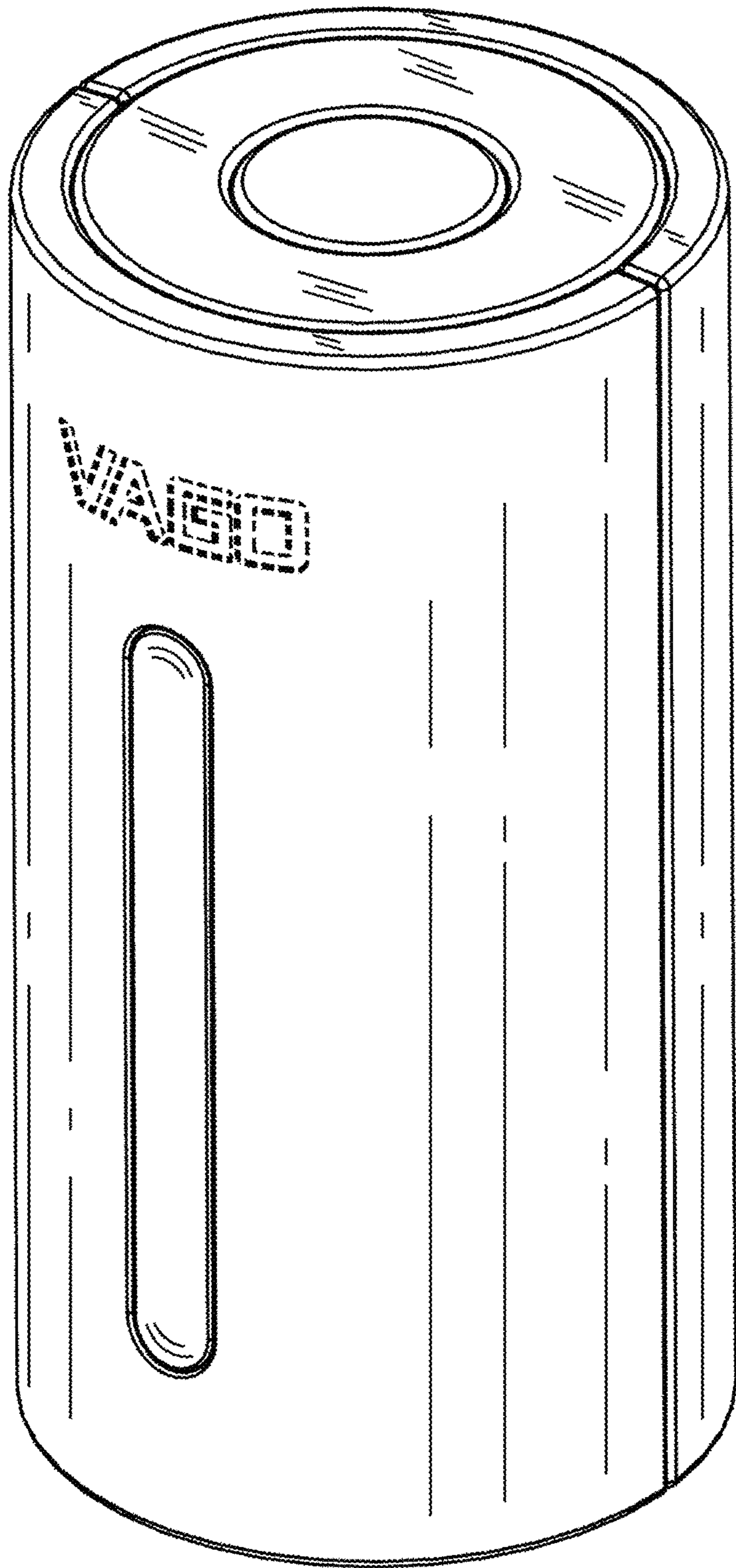
The ornamental design for a handheld vacuum pumping  
device, substantially as shown and described.

**DESCRIPTION**

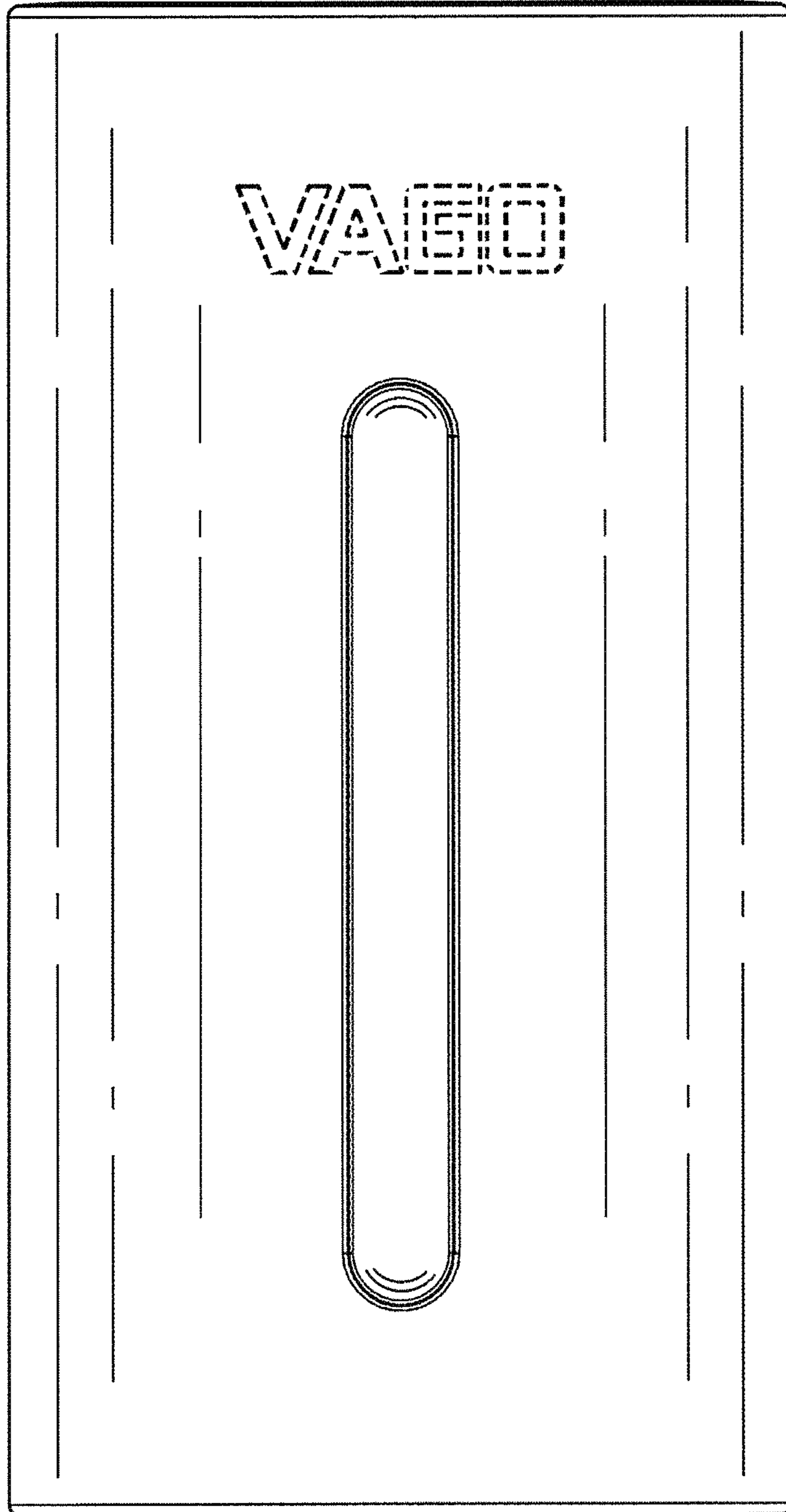
FIG. 1 is a top, right, front perspective view of a handheld  
vacuum pumping device showing the new design;  
FIG. 2 is a front view thereof;  
FIG. 3 is a rear view thereof;  
FIG. 4 is a left side view thereof;  
FIG. 5 is a right side view thereof;  
FIG. 6 is a top view thereof;  
FIG. 7 is a bottom view thereof;  
FIG. 8 is a bottom, right, rear perspective view thereof; and,  
FIG. 9 is a bottom, left, front perspective view thereof.  
Features shown in broken lines in the drawings form no part  
of the claimed design.

**1 Claim, 9 Drawing Sheets**

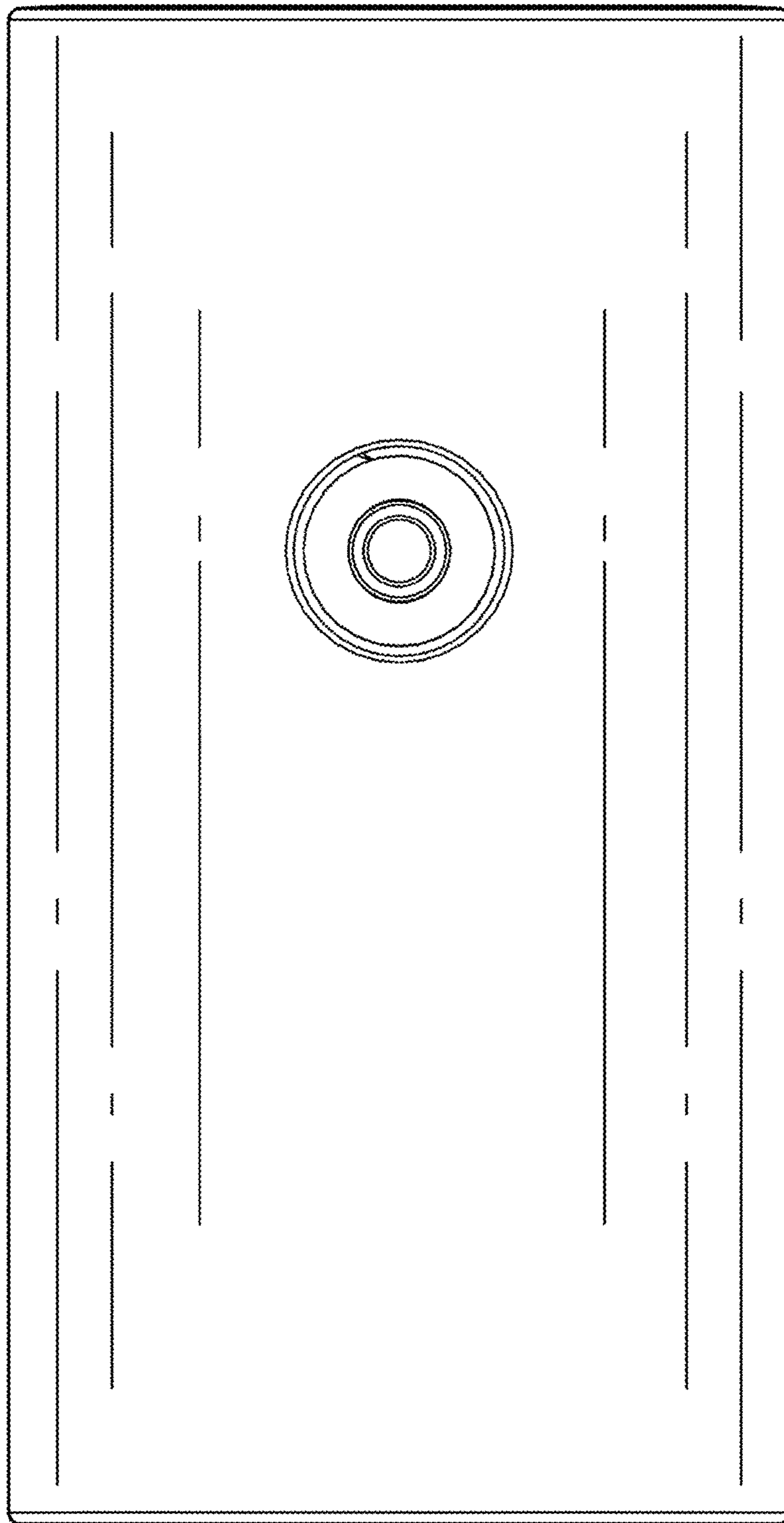




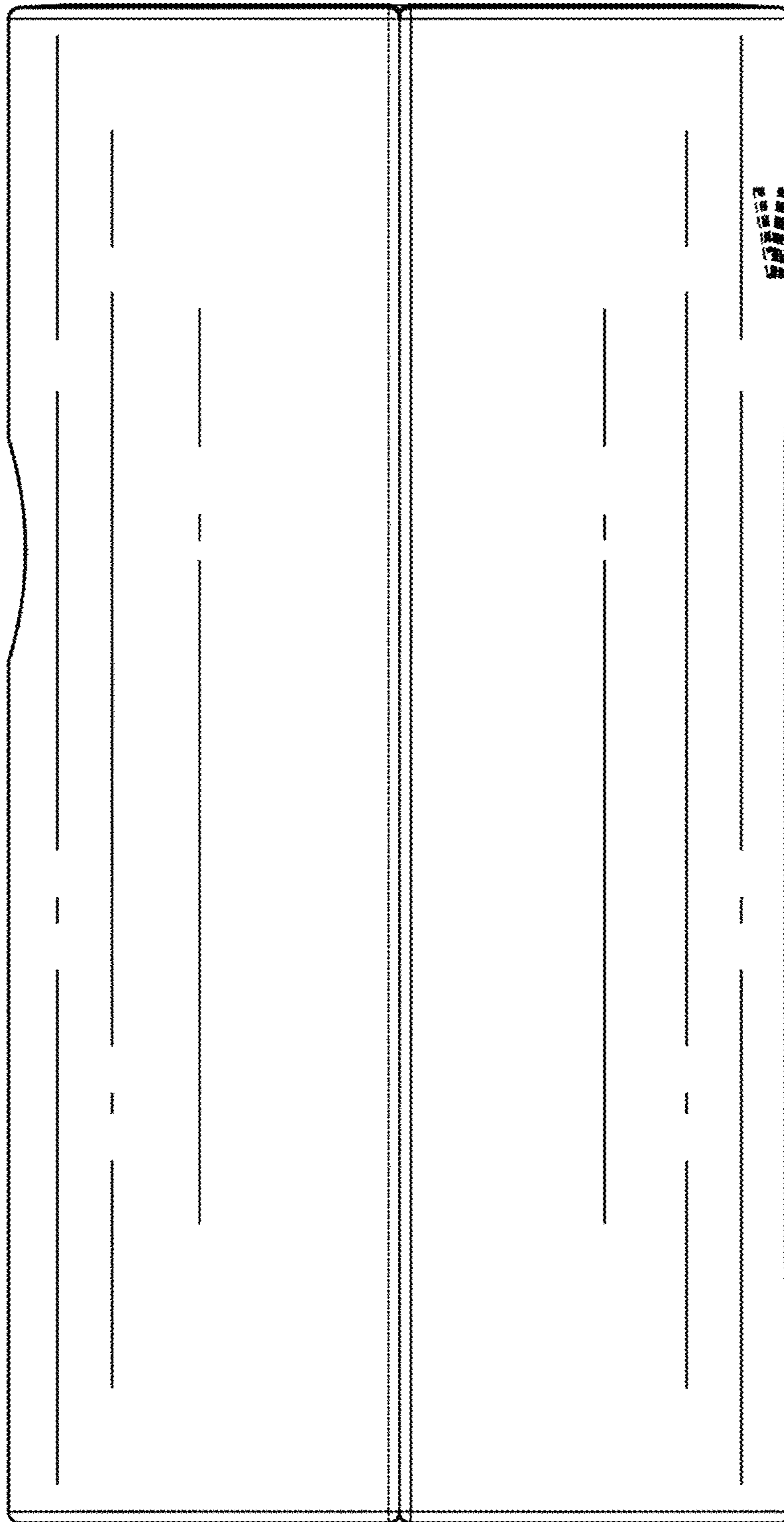
**FIG. 1**



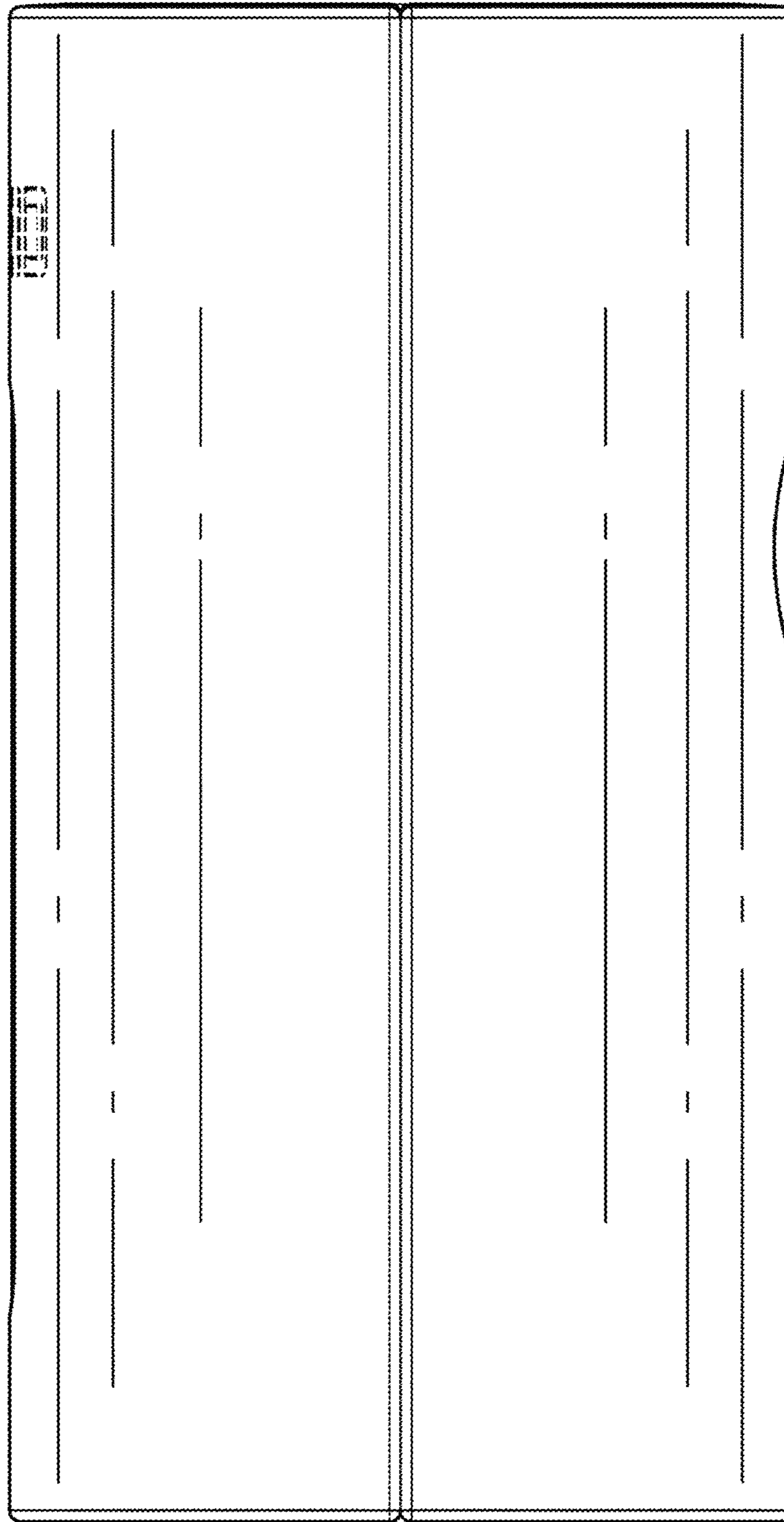
**FIG. 2**



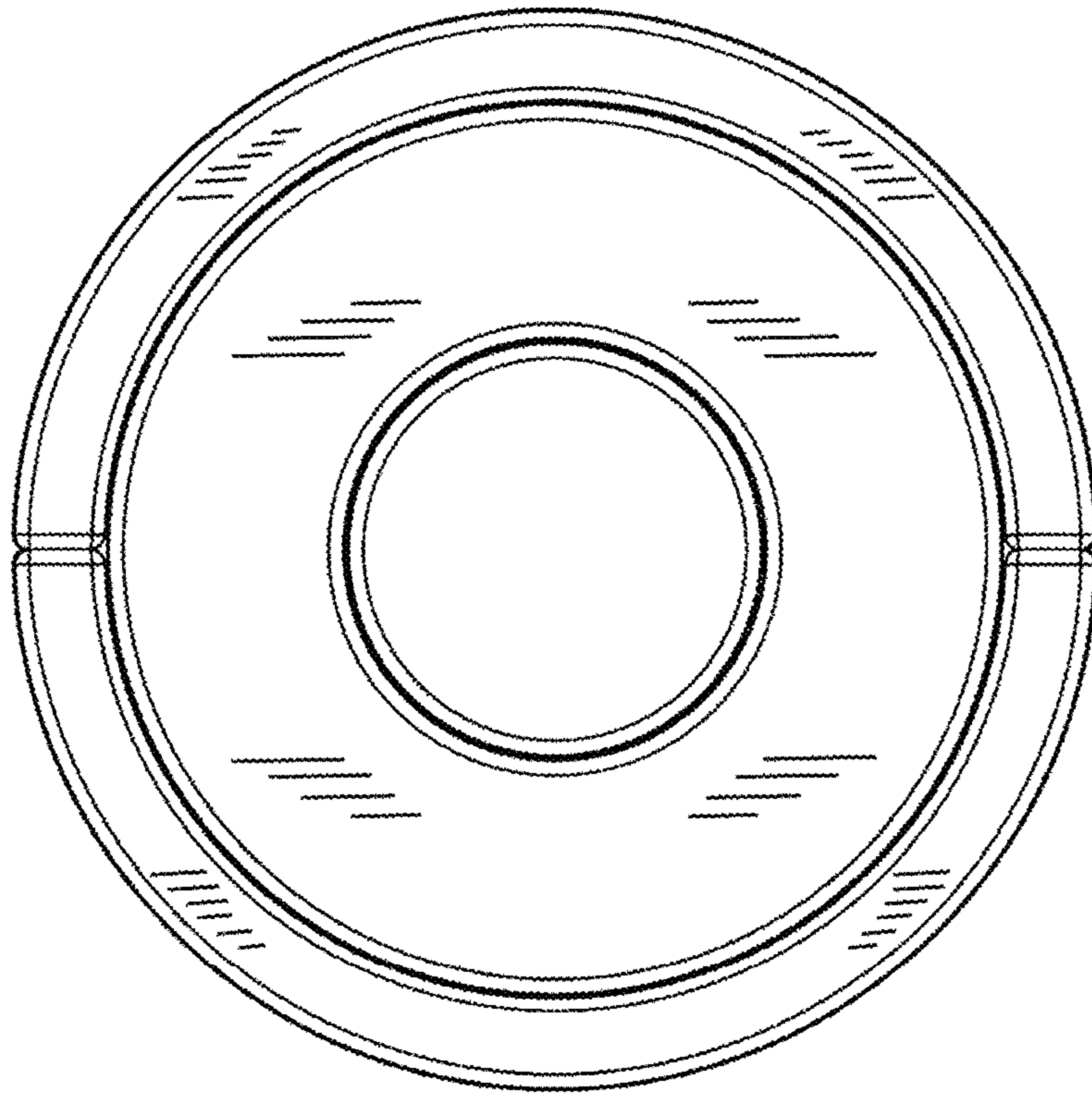
**FIG. 3**



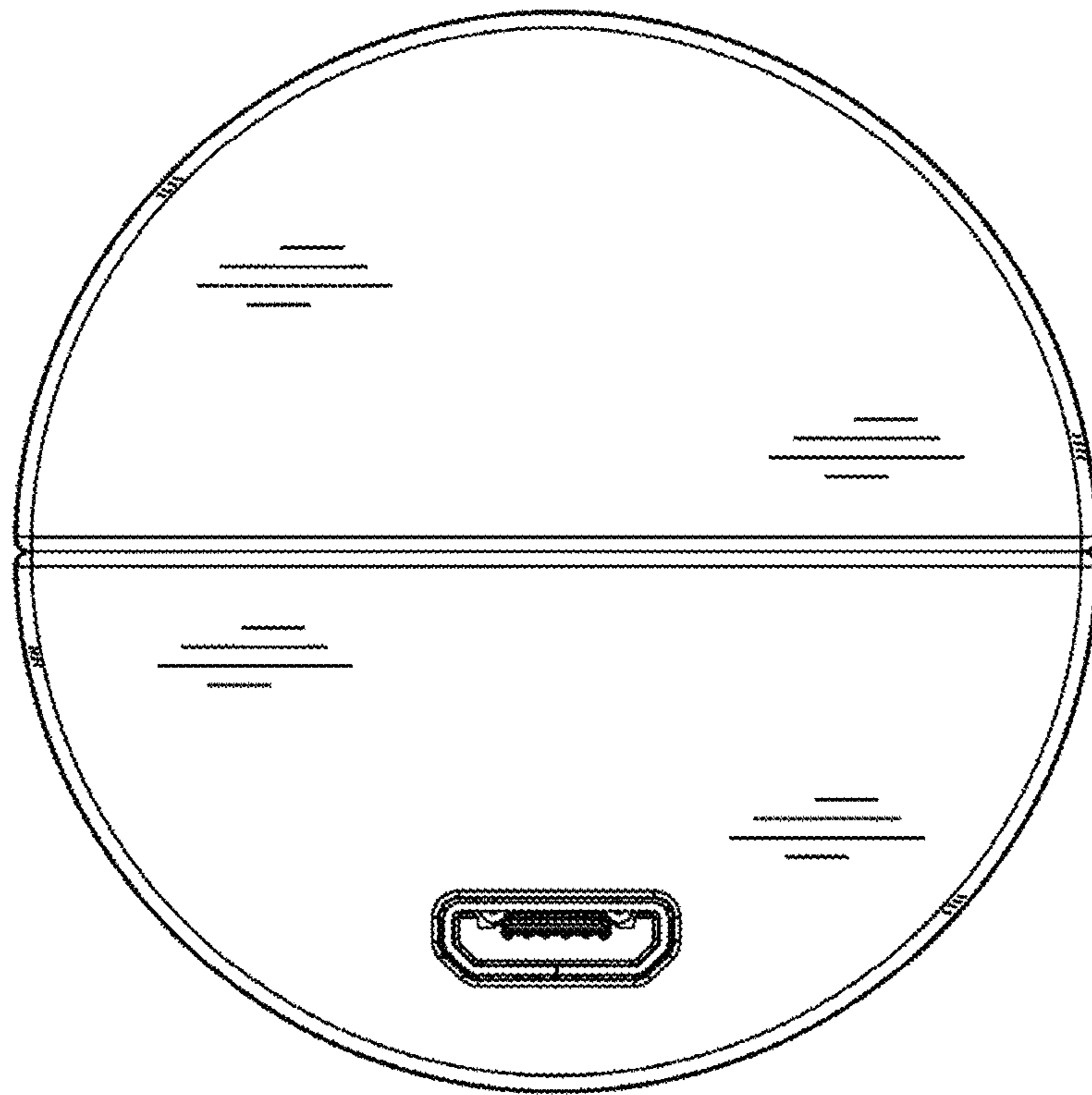
**FIG. 4**



**FIG. 5**

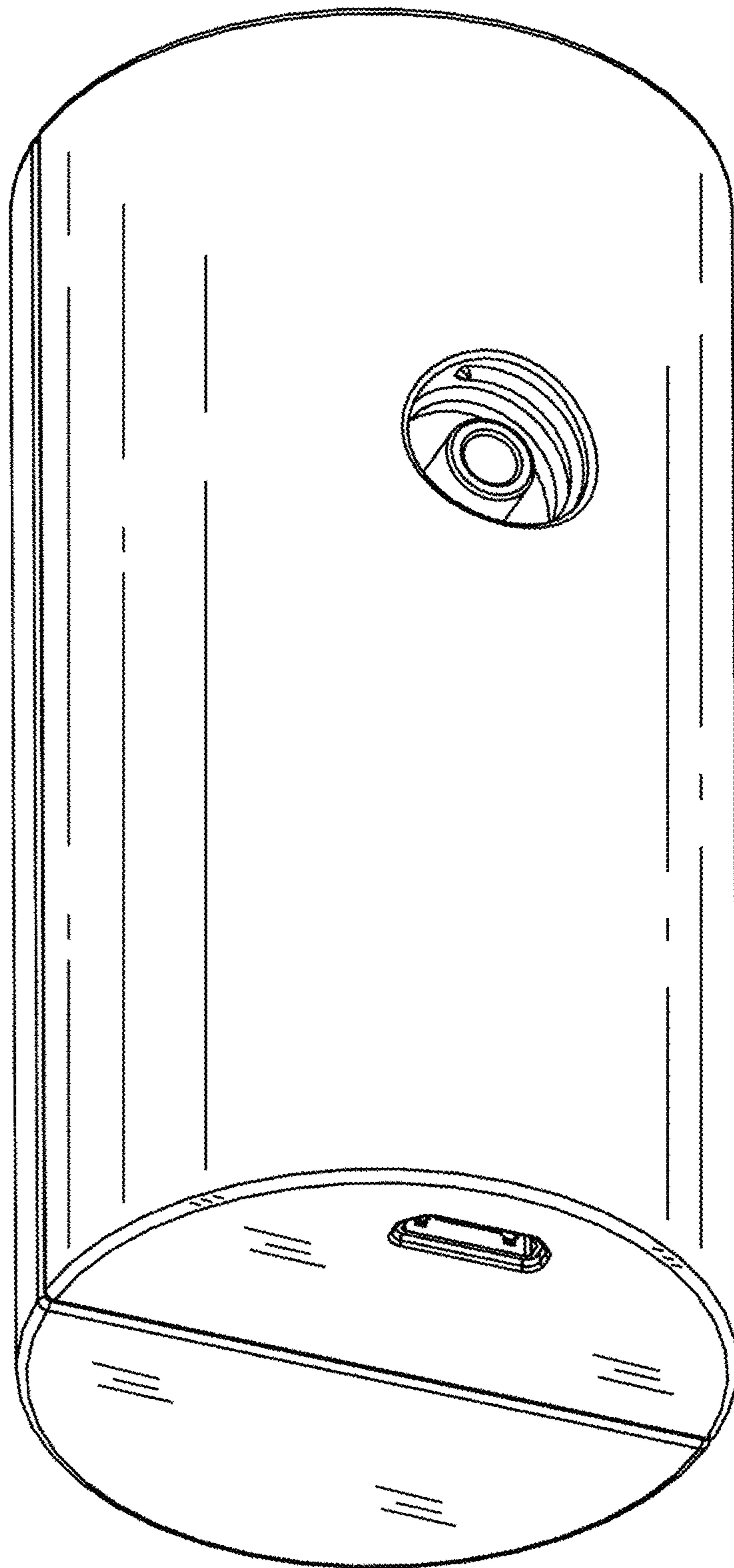


**FIG. 6**



**FIG. 7**





**FIG. 8**

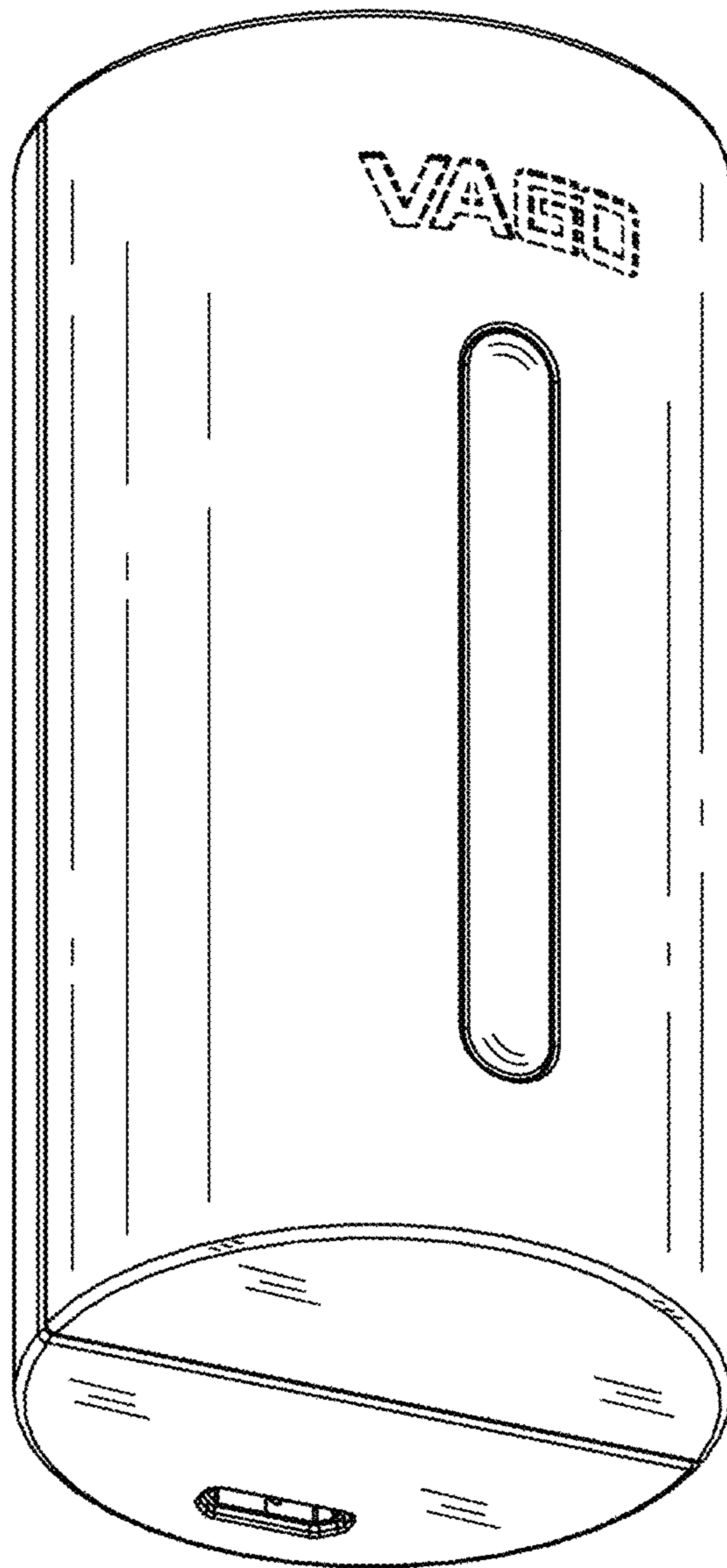


FIG. 9