



US00D746798S

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

(10) **Patent No.:** **US D746,798 S**  
(45) **Date of Patent:** **\*\* Jan. 5, 2016**

- (54) **INDOOR ANTENNA**
- (71) Applicant: **DISH Digital L.L.C.**, Englewood, CO (US)
- (72) Inventors: **Kevin P. Grundy**, Fremont, CA (US);  
**Peter Otto Schmidt**, San Jose, CA (US);  
**Lawrence Herman Fong**, Daly City, CA (US)
- (73) Assignee: **ECHOSTAR TECHNOLOGIES L.L.C.**, Englewood, CO (US)
- (\*\*) Term: **14 Years**
- (21) Appl. No.: **29/441,124**
- (22) Filed: **Dec. 31, 2012**
- (51) **LOC (10) Cl.** ..... **14-03**
- (52) **U.S. Cl.**  
USPC ..... **D14/230**
- (58) **Field of Classification Search**  
USPC ..... D14/230–238, 299, 358;  
343/700 R–705, 711–713, 871–908;  
455/90.2, 90.3; 333/193; D21/441,  
D21/443, 451, 681; D6/653.18, 653.22, 677  
CPC ..... H01Q 7/00; H01Q 13/10; H01Q 9/285;  
H01Q 19/30; H01Q 19/12; H01Q 1/38;  
H04B 1/0475; H04B 1/034; H05K 11/00  
See application file for complete search history.

- D274,852 S \* 7/1984 Withers et al. .... D32/25
- D294,895 S \* 3/1988 Valento ..... D6/680.3
- D300,531 S \* 4/1989 Higgins ..... D14/230
- D327,690 S \* 7/1992 Ogawa et al. .... D14/230
- D362,470 S \* 9/1995 Smith ..... D21/443
- D373,912 S \* 9/1996 Lladro Roig et al. .... D6/677
- D387,771 S \* 12/1997 Martinson et al. .... D14/230

(Continued)

**FOREIGN PATENT DOCUMENTS**

- CN 301176493 \* 4/2010
- CN 301245987 \* 6/2010

(Continued)

**OTHER PUBLICATIONS**

Radioshack 15-1892: Indoor Antenna w/ RF Remote | Missing Remote, blog date Apr. 17, 2007, online, site visited Apr. 25, 2015, <http://www.missingremote.com/review/radioshack-15-1892-indoor-antenna-w-rf-remote>.\*

(Continued)

*Primary Examiner* — John Windmuller  
*Assistant Examiner* — John R Yeh  
(74) *Attorney, Agent, or Firm* — Kilpatrick Townsend & Stockton LLP

(57) **CLAIM**

The ornamental design for the indoor antenna, as shown and described.

**DESCRIPTION**

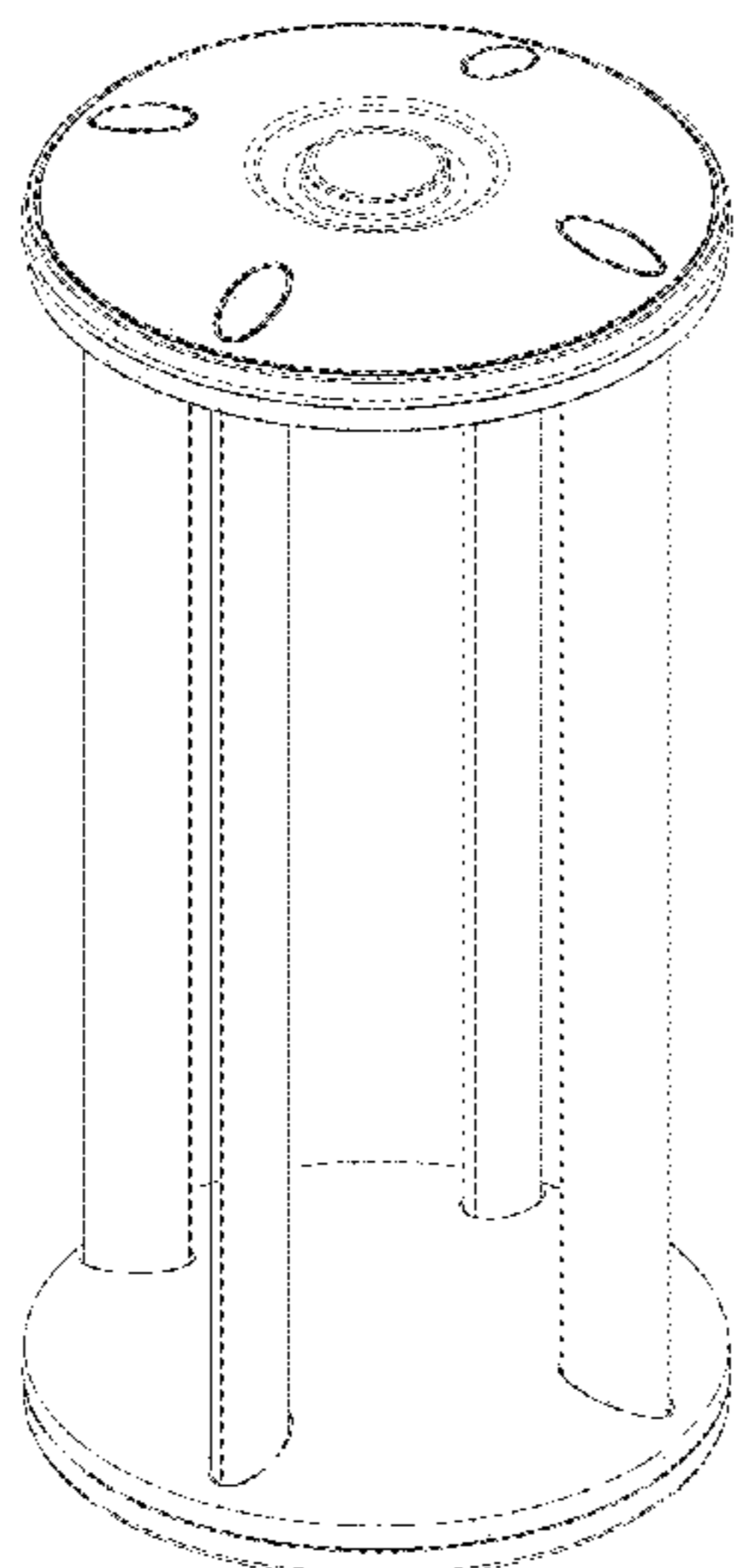
FIG. 1 is a top plan view of an indoor antenna;  
FIG. 2 is a bottom plan view thereof;  
FIG. 3 is a front elevation view thereof;  
FIG. 4 is a back elevation view thereof;  
FIG. 5 is a left side elevation view thereof;  
FIG. 6 is a right side elevation view thereof; and,  
FIG. 7 is a perspective view thereof.

**1 Claim, 7 Drawing Sheets**

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- D111,982 S \* 11/1938 Kushner ..... D6/457
- D208,310 S \* 8/1967 Patrick ..... D6/457
- D219,592 S \* 12/1970 Gibbons ..... D14/233
- D225,283 S \* 11/1972 Axelrod ..... D6/677
- 3,831,209 A \* 8/1974 Clingman ..... 441/136
- D235,040 S \* 5/1975 Wright ..... D6/677
- 4,081,784 A \* 3/1978 Wilson et al. .... 367/94
- D265,442 S \* 7/1982 Grossman ..... D6/677



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D398,676	S	*	9/1998	Marney .....	D21/681
D421,439	S	*	3/2000	Giuntoli .....	D14/230
D525,397	S	*	7/2006	Wang .....	D30/160
D617,319	S	*	6/2010	Maffetone et al. ....	D14/230
D695,725	S	*	12/2013	Taeger .....	D14/230
D725,714	S	*	3/2015	Kim .....	D21/443
2006/0290583	A1	*	12/2006	Forster et al. ....	343/767
2008/0136723	A1	*	6/2008	Tavassoli Hozouri .....	343/767
2008/0136724	A1	*	6/2008	Tavassoli Hozouri .....	343/770
2012/0056790	A1	*	3/2012	Lee et al. ....	343/702

FOREIGN PATENT DOCUMENTS

GB	2033569	*	12/1993
JP	D1313829	*	10/2007
KR	300580935-0000	*	12/2010

OTHER PUBLICATIONS

Marine Electronics, TV antennas for boats—google publish date May 5, 2013, online, <http://www.nauticexpo.com/cat/marine-electronics/tv-antennas-boats-WA-1560.html>, [site visited Apr. 25, 2015 6:05:25 PM].\*

Check out how small this u-blox GPS receiver is! | CoolRC, article date, Sep. 8, 2013, online, site visited Apr. 25, 2015, <https://coolrc.wordpress.com/2013/09/08/check-out-how-small-this-u-blox-gps-receiver-is/>.\*

Boeing E-3 Sentry—Wikipedia, the free encyclopedia, introduction date Mar. 1977, online, site visited Apr. 25, 2015, [http://en.wikipedia.org/wiki/Boeing\\_E-3\\_Sentry](http://en.wikipedia.org/wiki/Boeing_E-3_Sentry).\*

\* cited by examiner

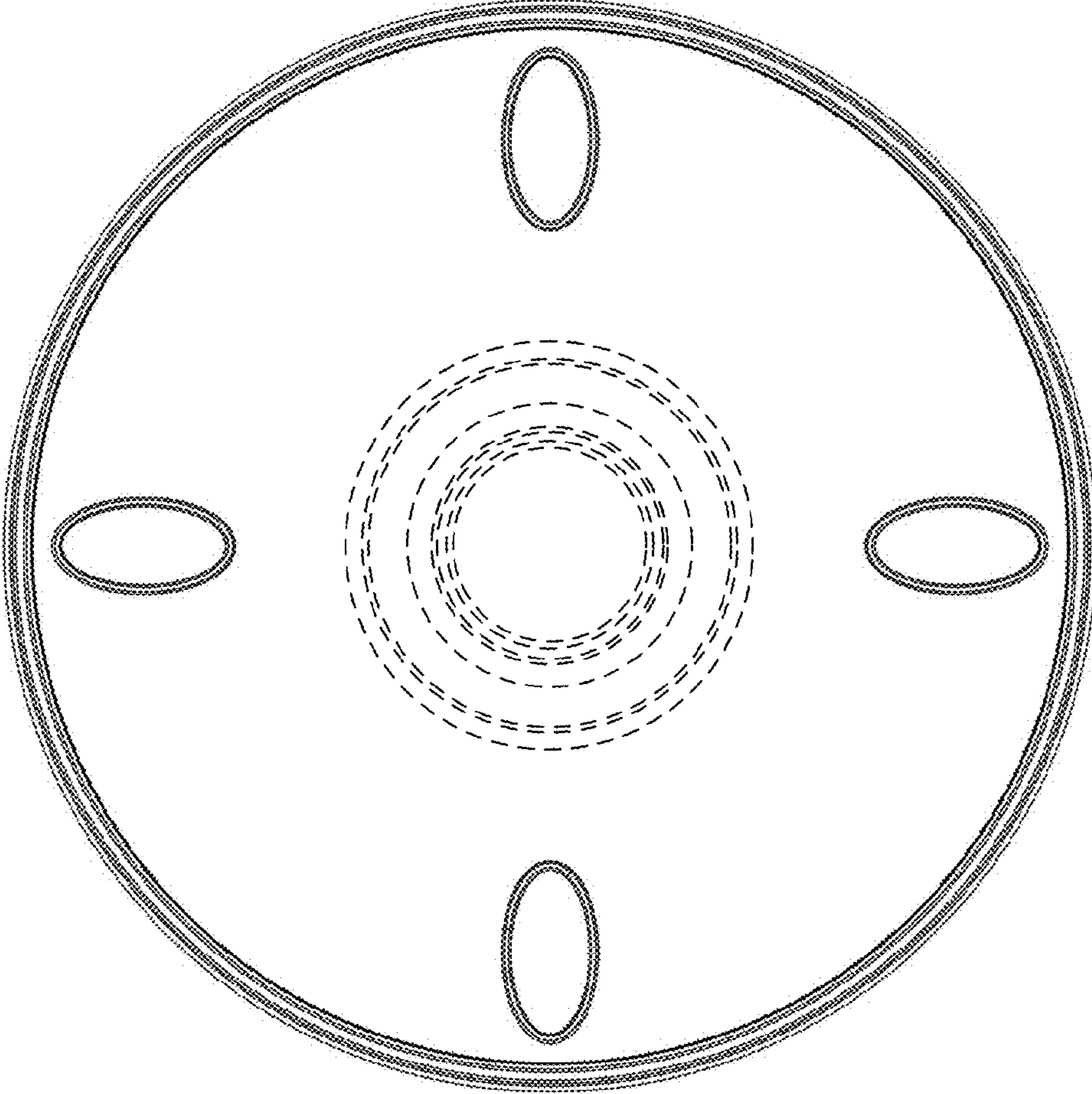


Fig. 1

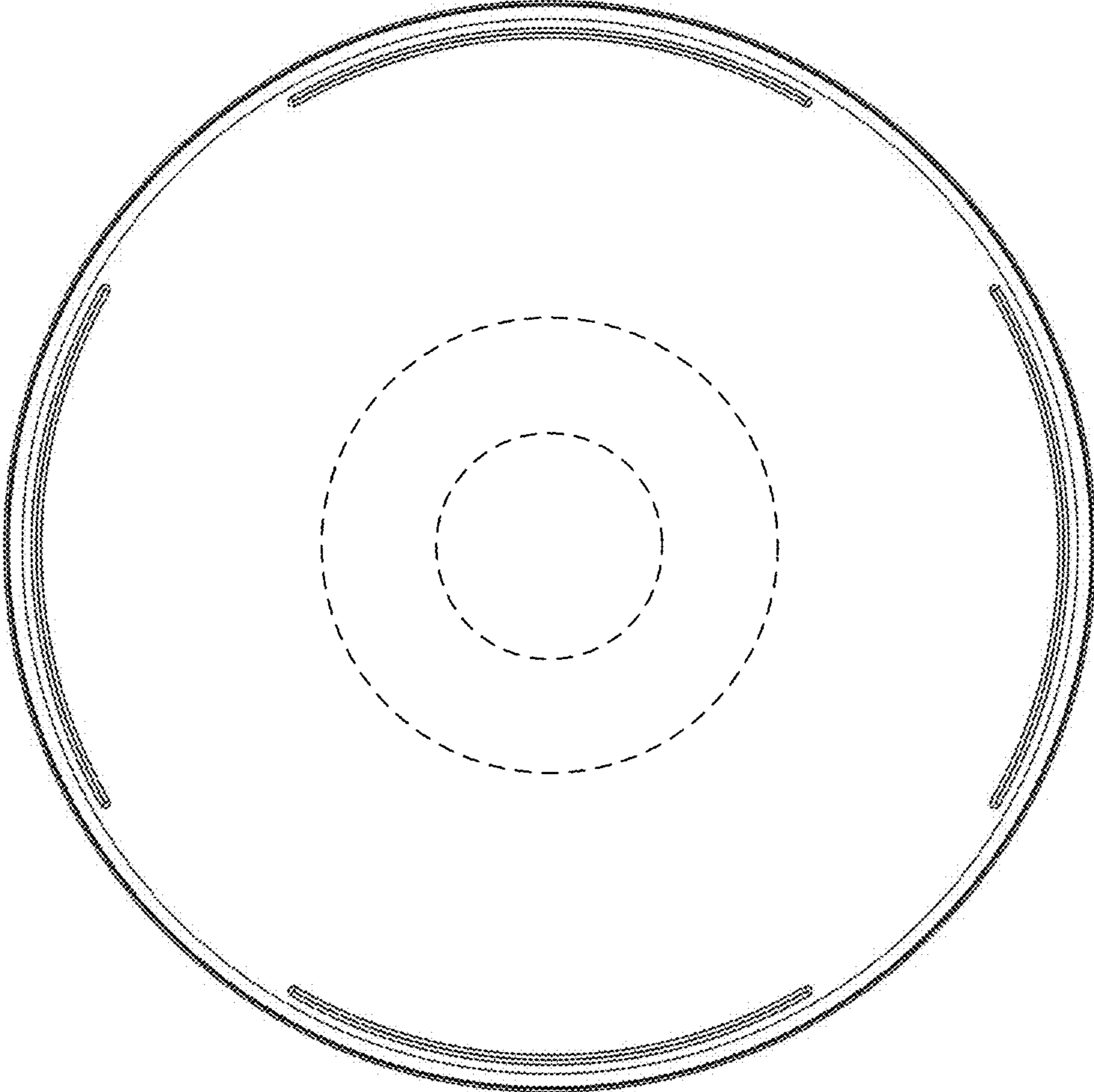


Fig. 2

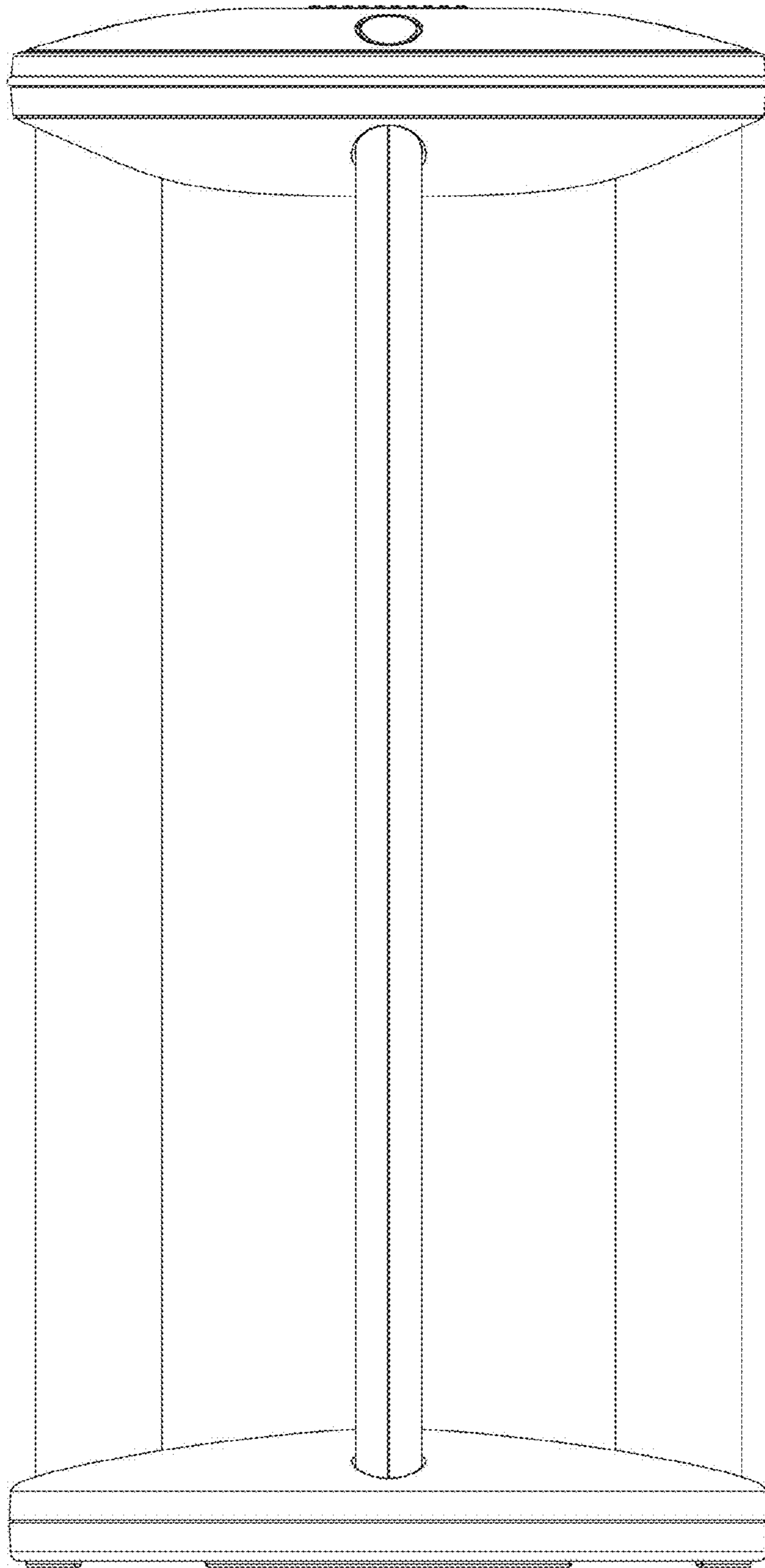


Fig. 3

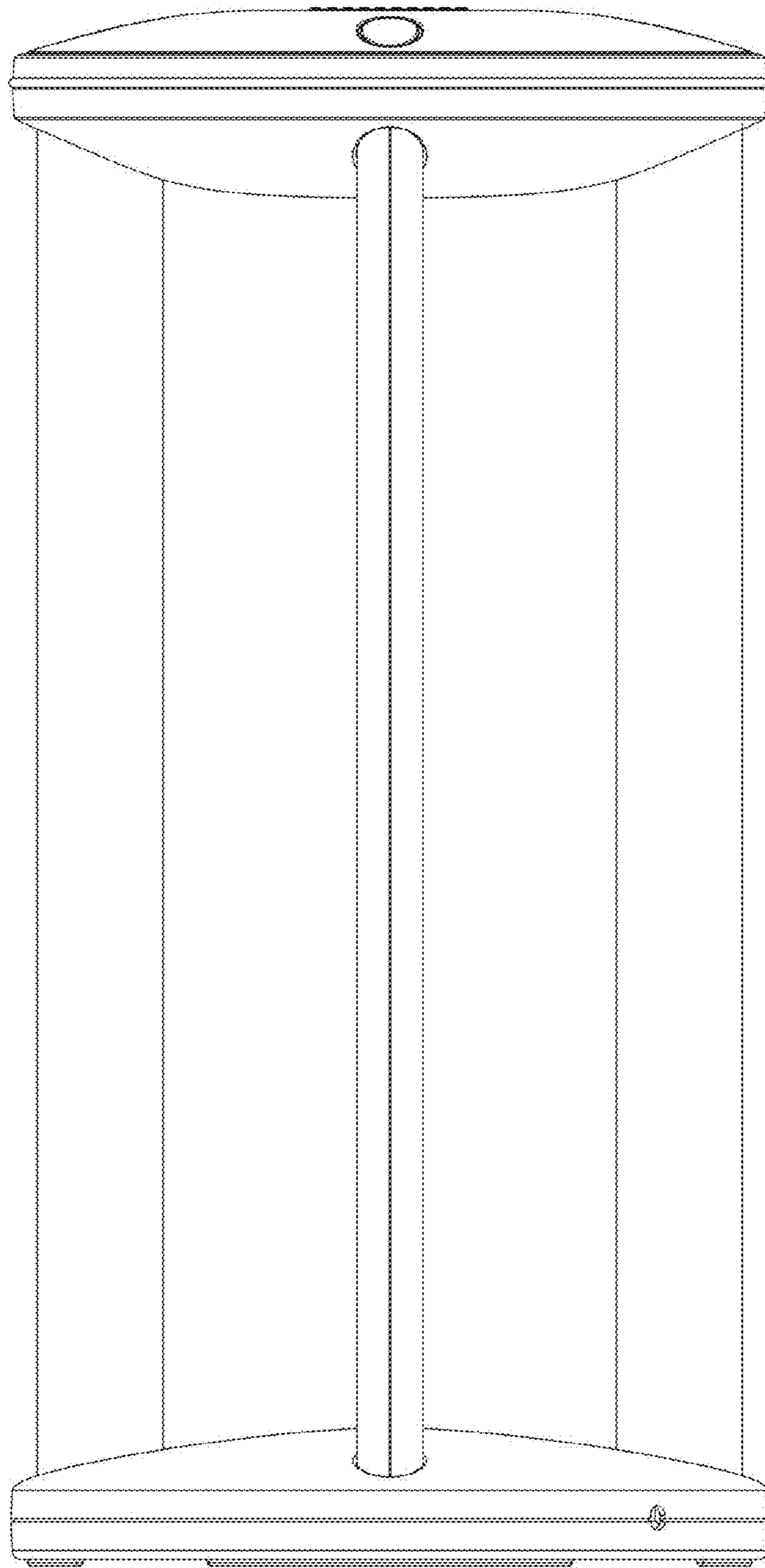


Fig. 4

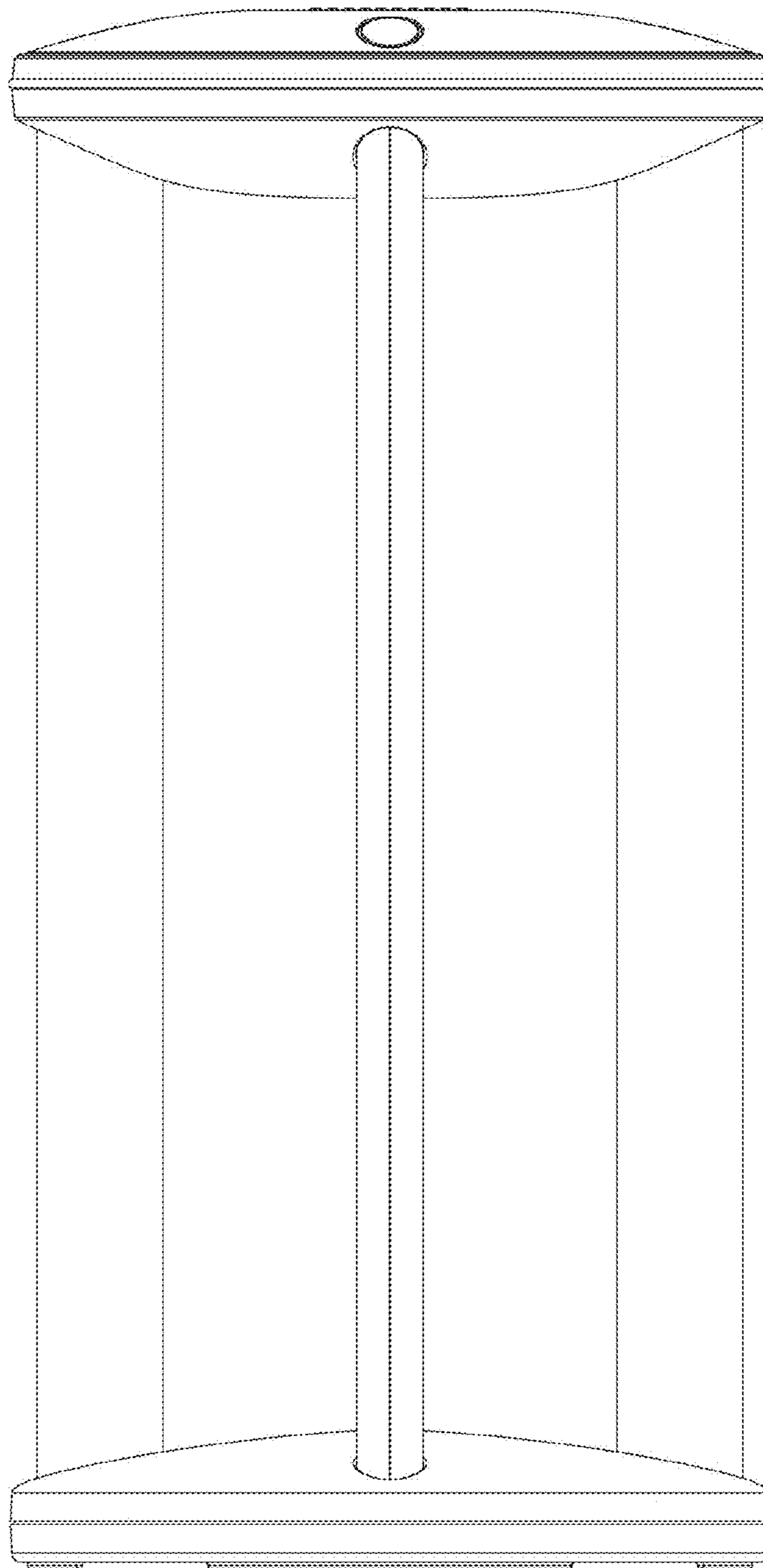


Fig. 5

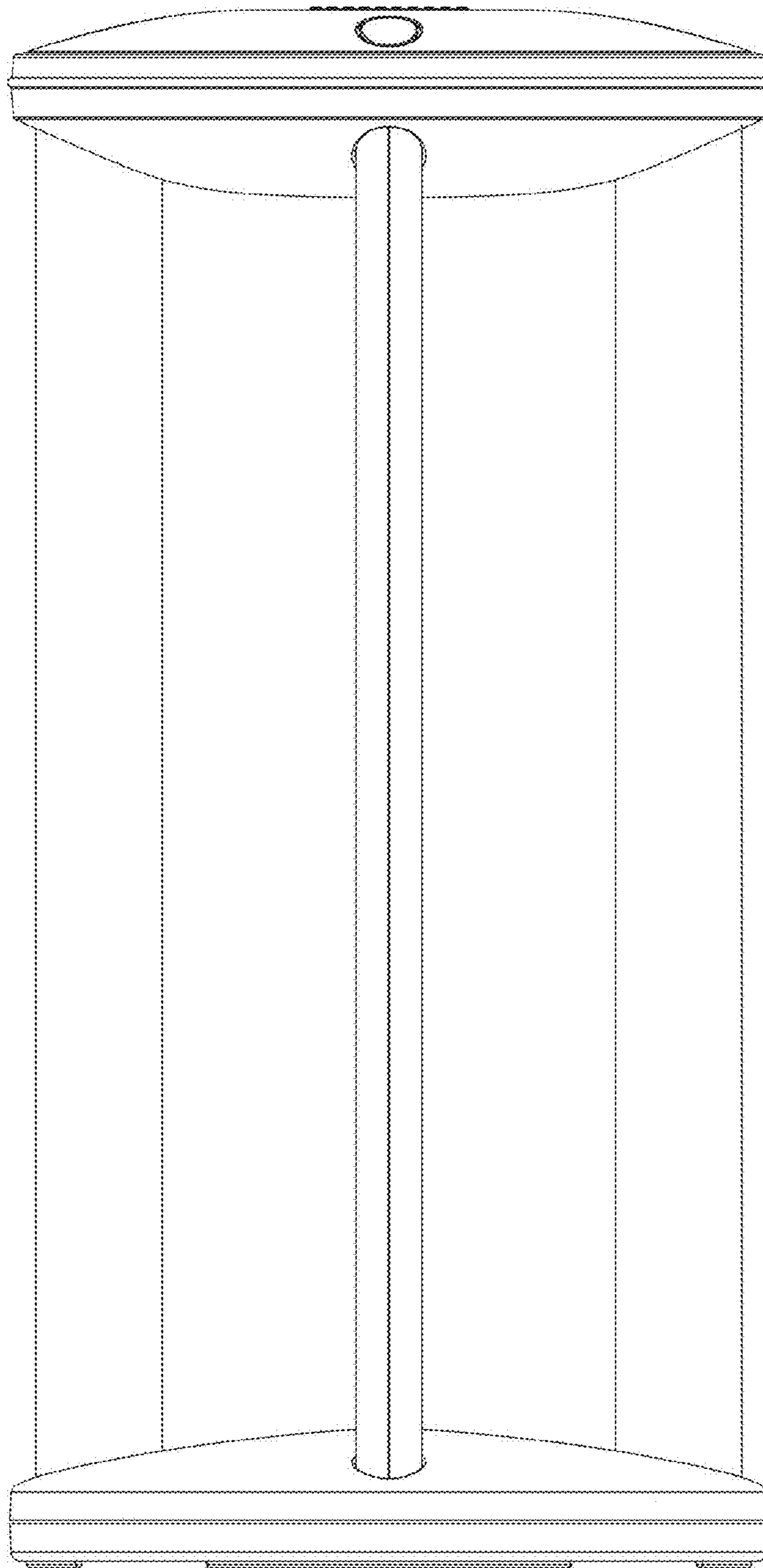


Fig. 6



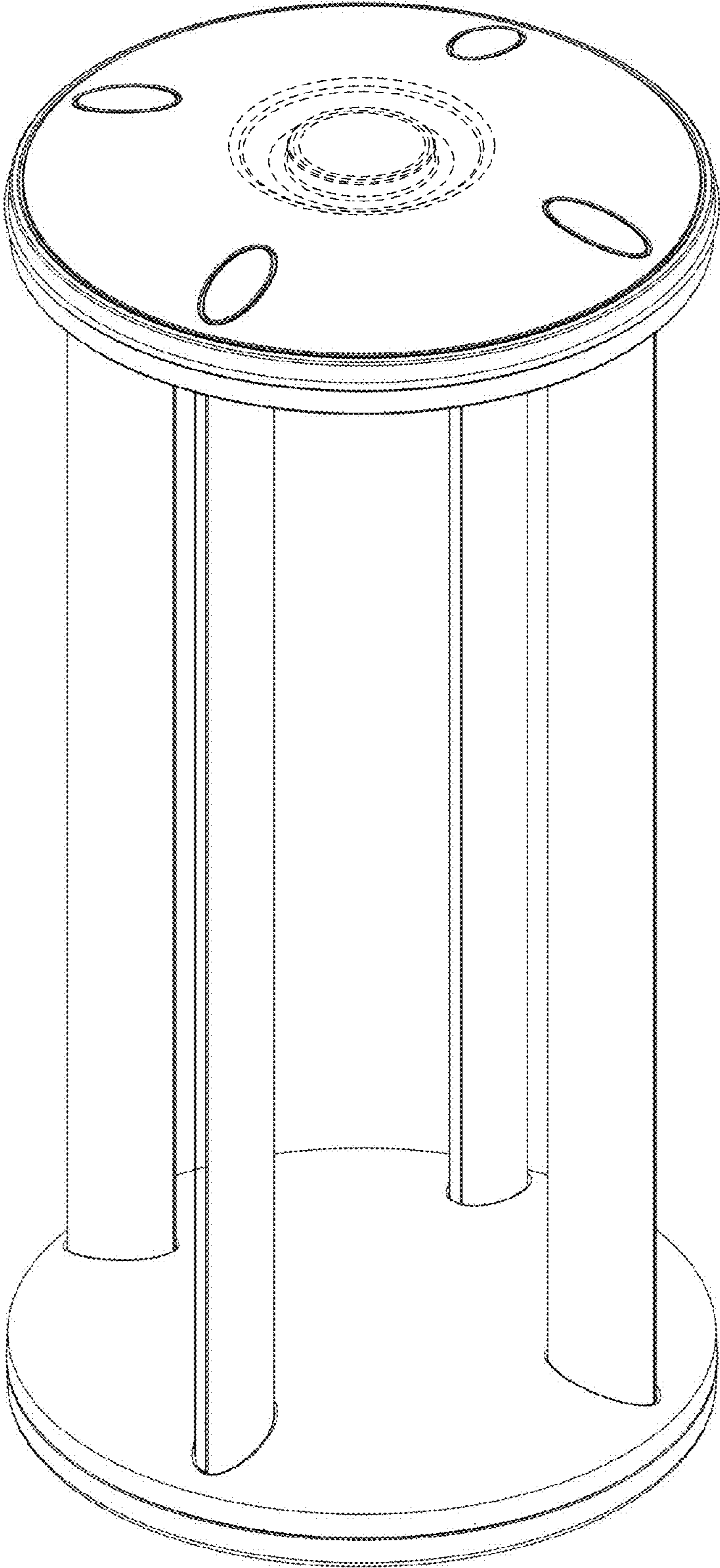


Fig. 7