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

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(45) **Date of Patent:** **** Jun. 6, 2023**

- (54) **SECONDARY BATTERY**
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- (73) Assignee: **Murata Manufacturing Co., Ltd.**, Kyoto (JP)
- (**) Term: **15 Years**
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(30) **Foreign Application Priority Data**

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- (51) **LOC (14) Cl.** **13-02**
- (52) **U.S. Cl.**

USPC **D13/103**

(58) **Field of Classification Search**

USPC D13/102-106, 110, 118-119, 184
 CPC . Y02E 60/10; H01M 2220/30; H01M 50/209;
 H01M 50/213; H01M 50/183; H01M 50/10;
 H01M 50/529; H01M 50/531; H01M 10/0525;
 H01M 10/0436; H01M 10/052; H01M 10/0565;
 H01M 10/30; H01M 10/345; H01M 10/425; H01M
 2010/0495; B25F 5/02; B25F 5/00; A61B
 2017/00734

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D388,051 S * 12/1997 Harada D13/103
- 5,904,998 A * 5/1999 Dopp H01M 4/62
429/405

- D427,141 S * 6/2000 Luh D13/103
- D457,131 S * 5/2002 Kitoh D13/103
- 6,541,153 B2 * 4/2003 Hessabi H01M 50/121
429/161
- D539,216 S * 3/2007 Hamaguchi D13/103
- D664,092 S * 7/2012 Gea Suarez D13/103
- 8,524,386 B2 * 9/2013 Petrie H01M 50/216
429/96
- D720,688 S * 1/2015 Popper D13/103

(Continued)

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(57) **CLAIM**

The ornamental design for a secondary battery, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a secondary battery showing our new design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view thereof;

FIG. 4 is a left-side elevational view thereof;

FIG. 5 is a right-side elevational view thereof;

FIG. 6 is a top plan view thereof;

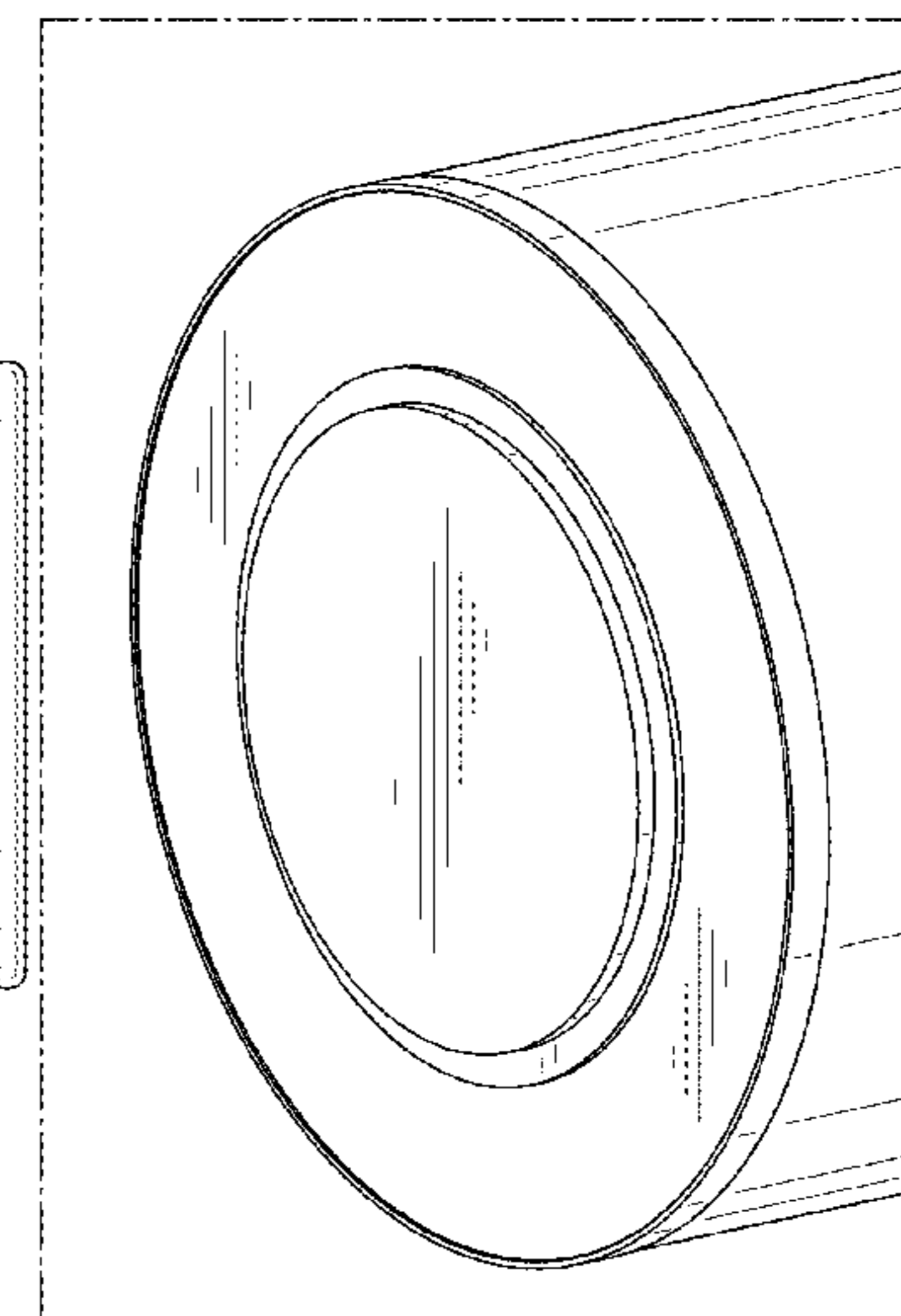
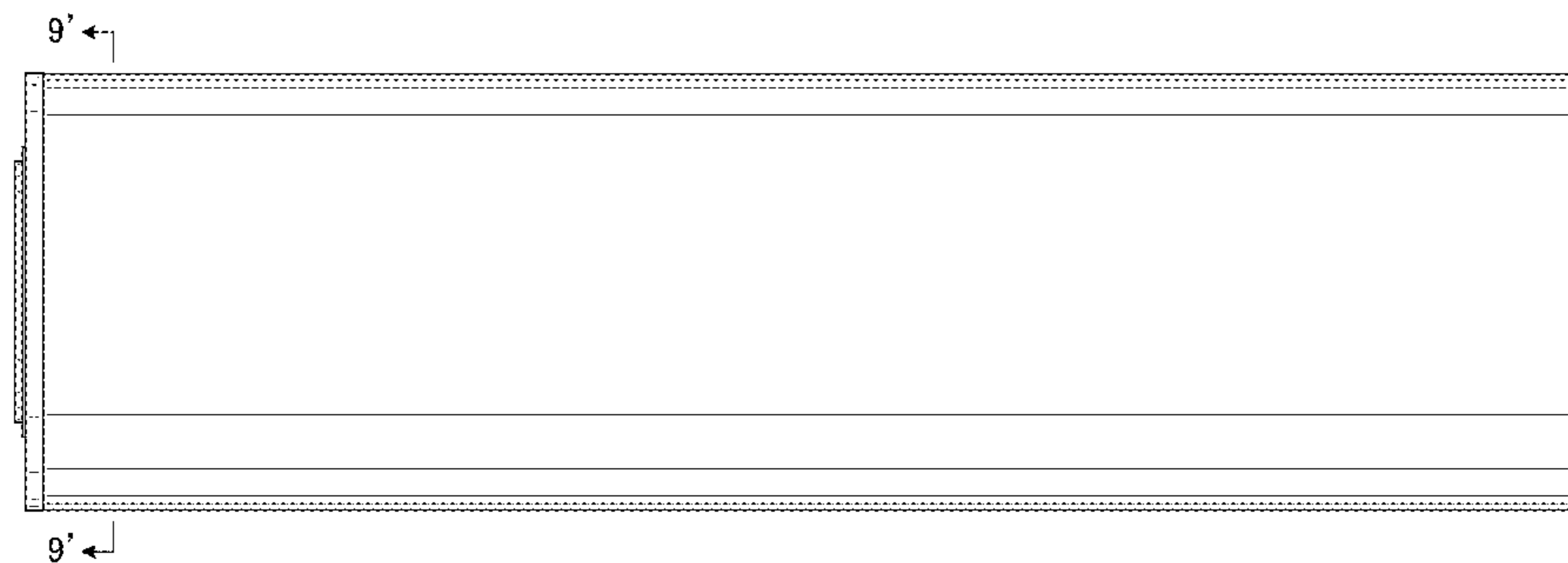
FIG. 7 is a bottom plan view thereof;

FIG. 8 is an enlarged view of area 8 designated by the dot-dash broken lines in FIG. 1; and,

FIG. 9 is an enlarged cross sectional view taken along line 9-9 in FIG. 4 in the direction of line 9'-9' in FIG. 2.

The rectangle and splined curve indicated by the dot-dash broken lines shown in FIG. 1 and FIG. 8 illustrate the boundary of enlarged area of the design. The dot-dash broken lines shown in FIG. 1 and FIG. 8 form no part of the claimed design. The even spaced broken lines in FIG. 9 depict portions of the secondary battery that form no part of the claimed design. The dot-dash broken line shown in FIG. 9 indicates the section line and forms no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D740,221 S	*	10/2015	Popper	D13/103
D850,595 S	*	6/2019	Li	D23/366
D926,120 S	*	7/2021	Richard	D13/103
D941,751 S	*	1/2022	Boris	D13/103

* cited by examiner

FIG. 1

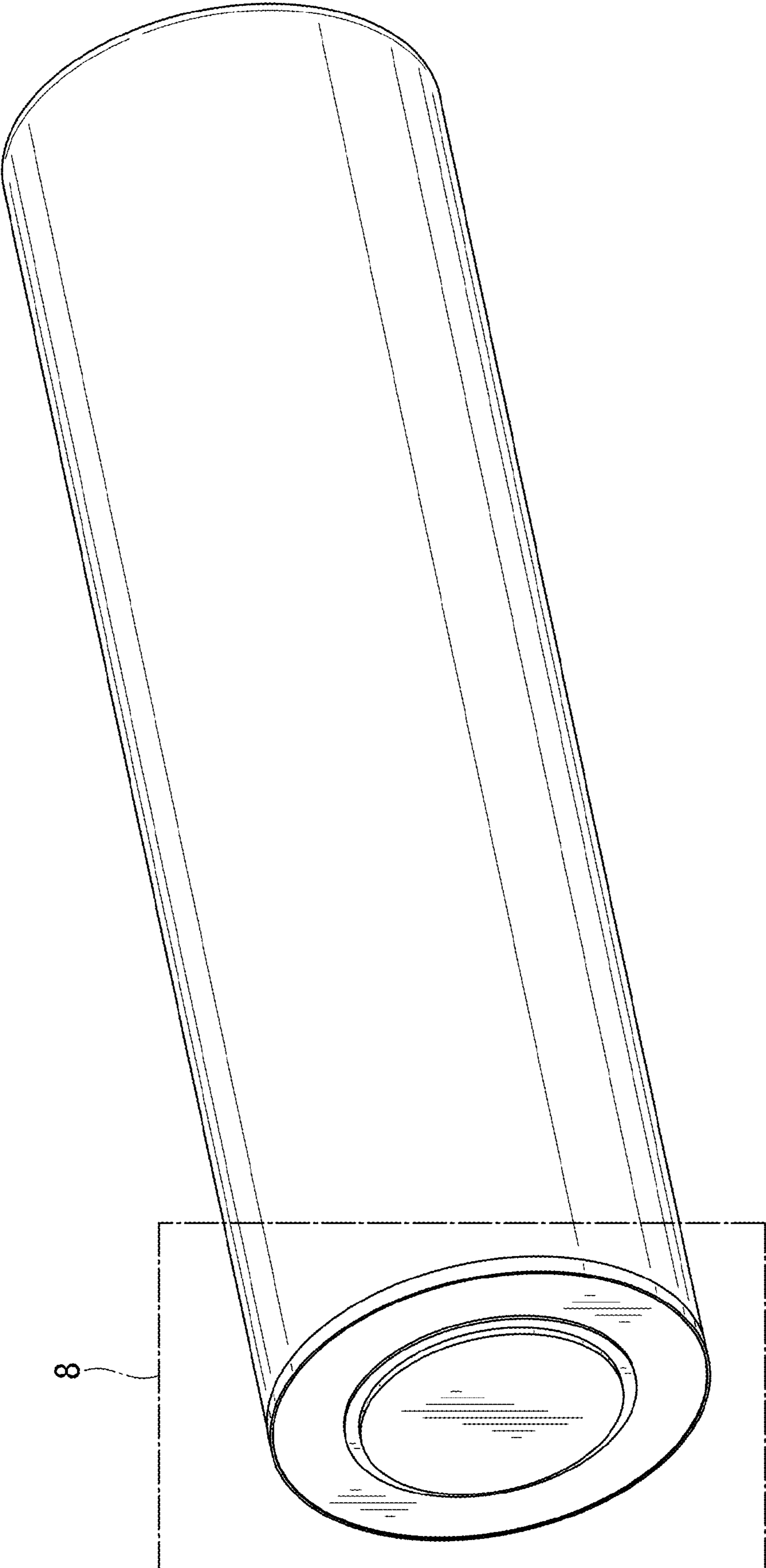


FIG. 2

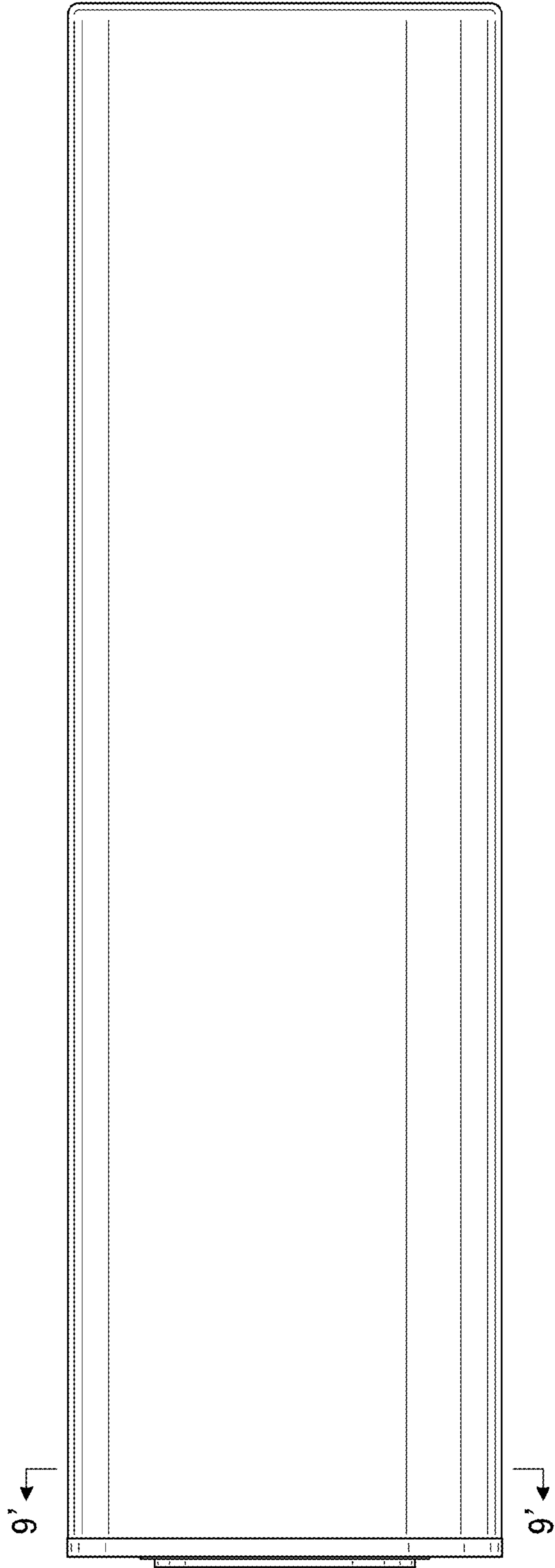


FIG. 3

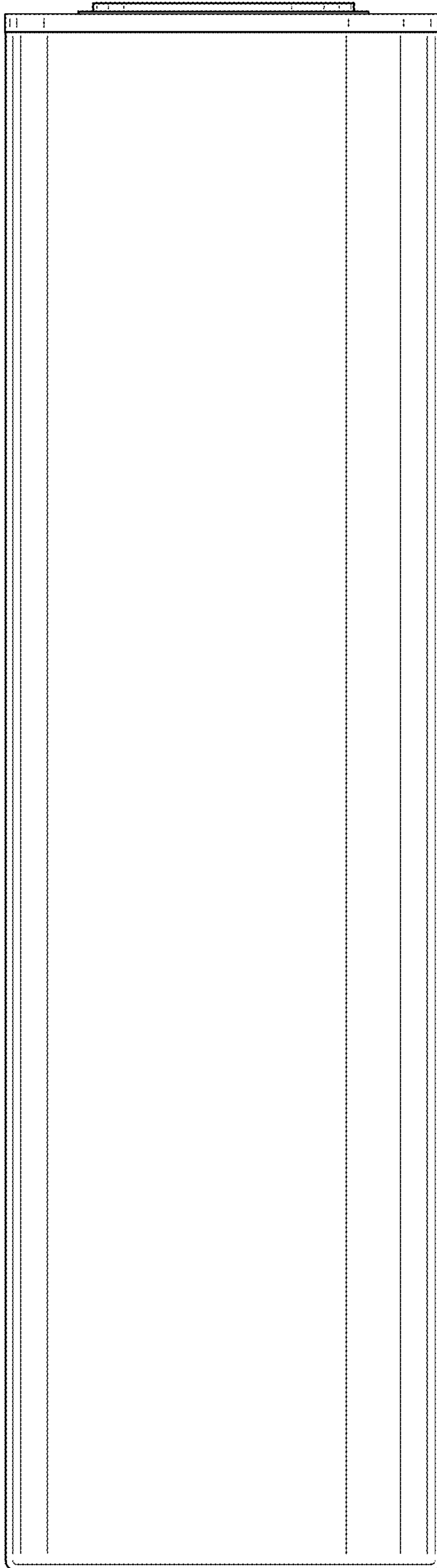


FIG. 5

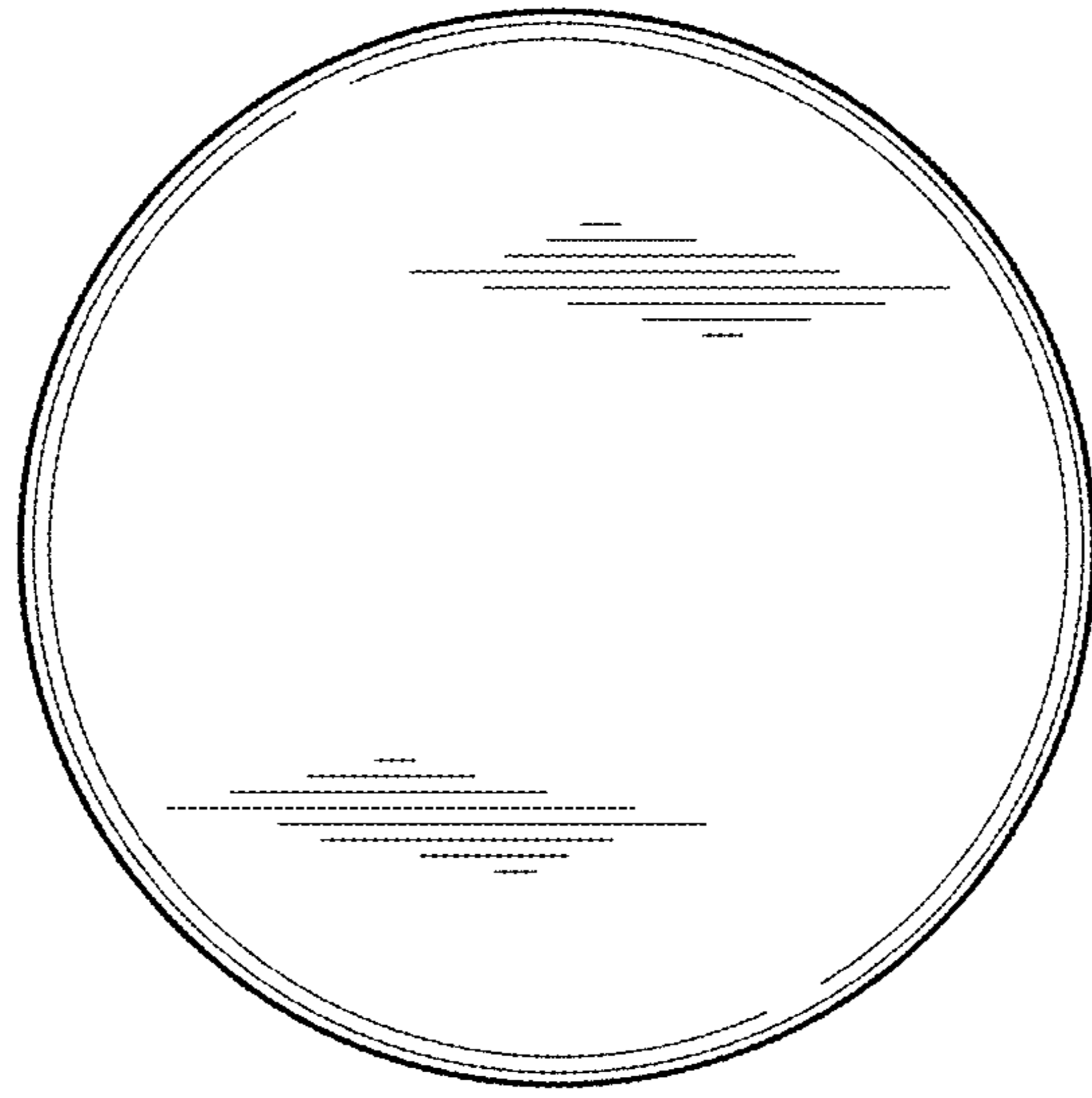


FIG. 4

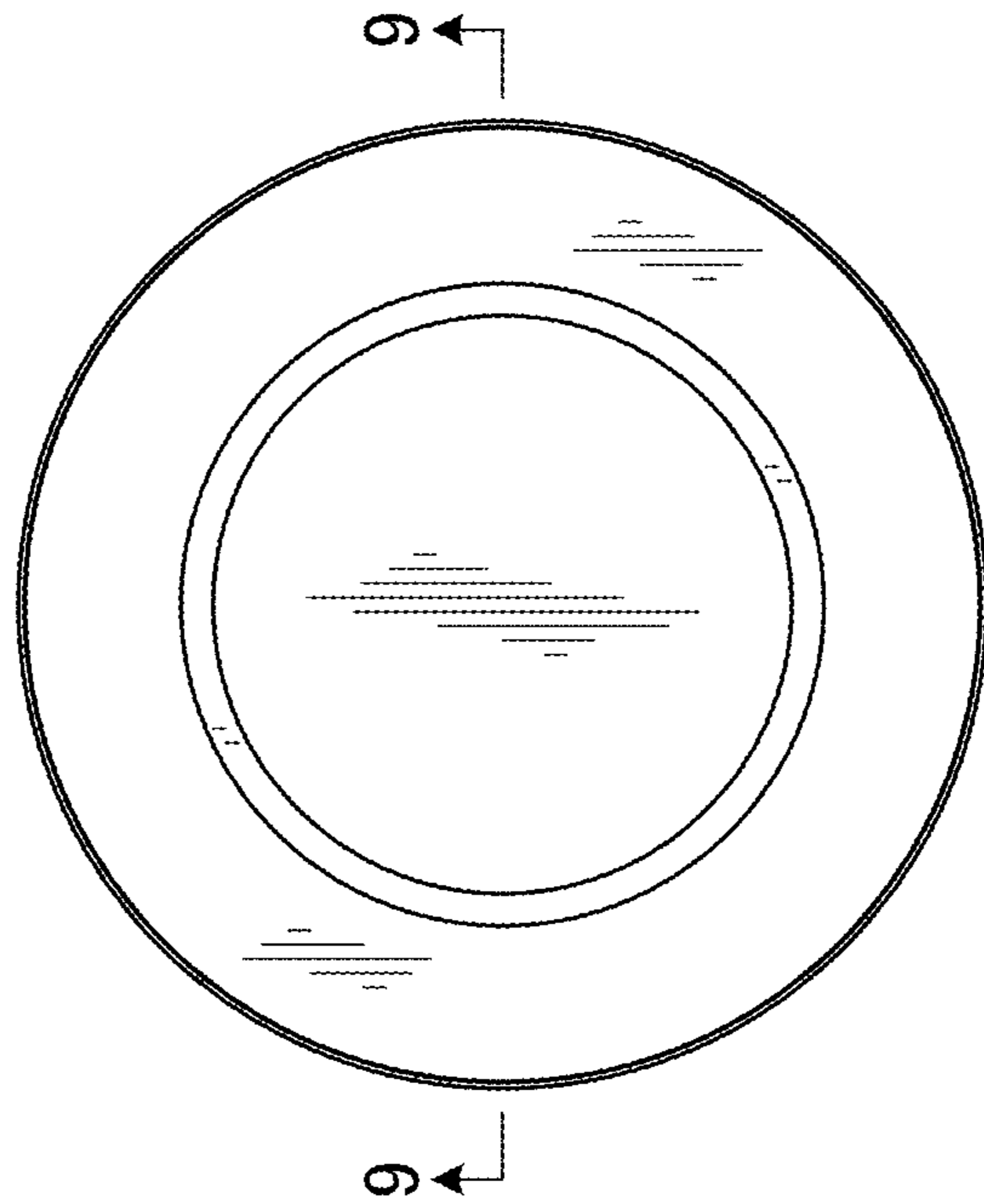


FIG. 6

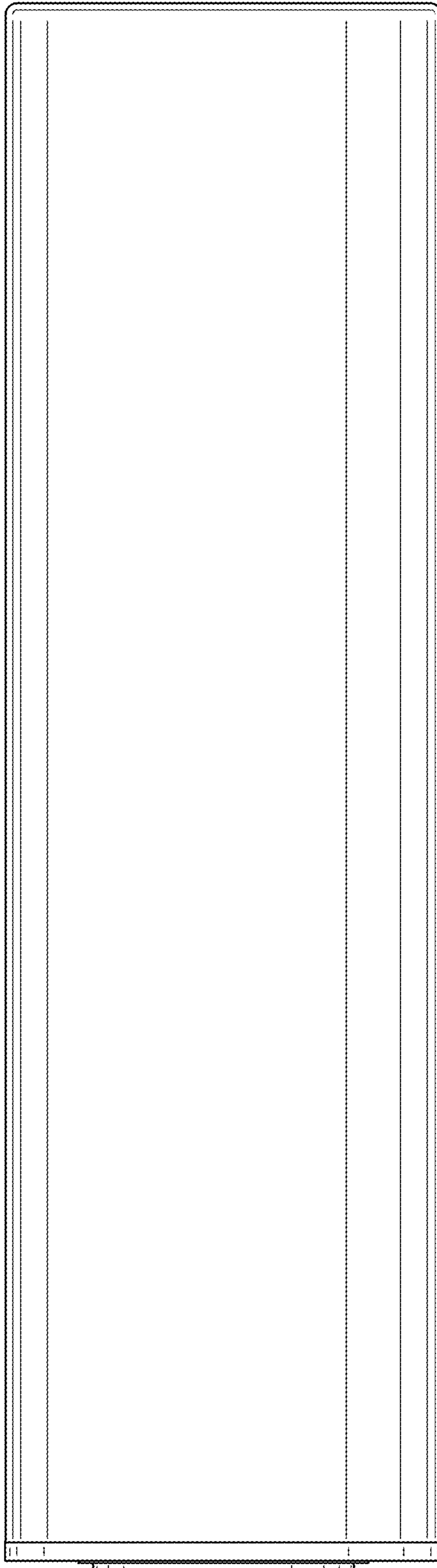


FIG. 7

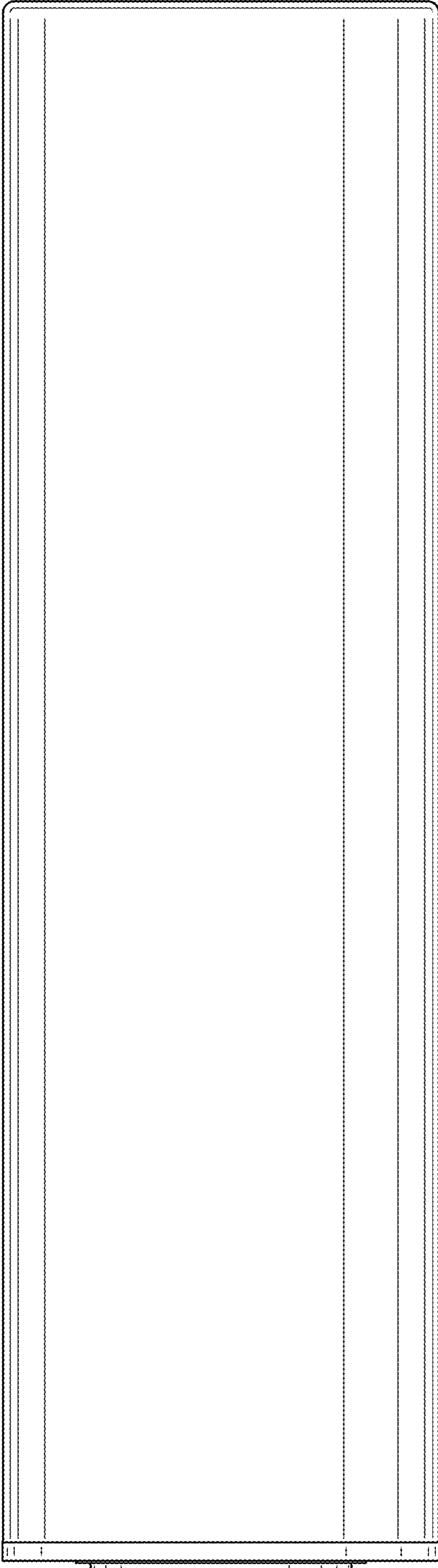


FIG. 8

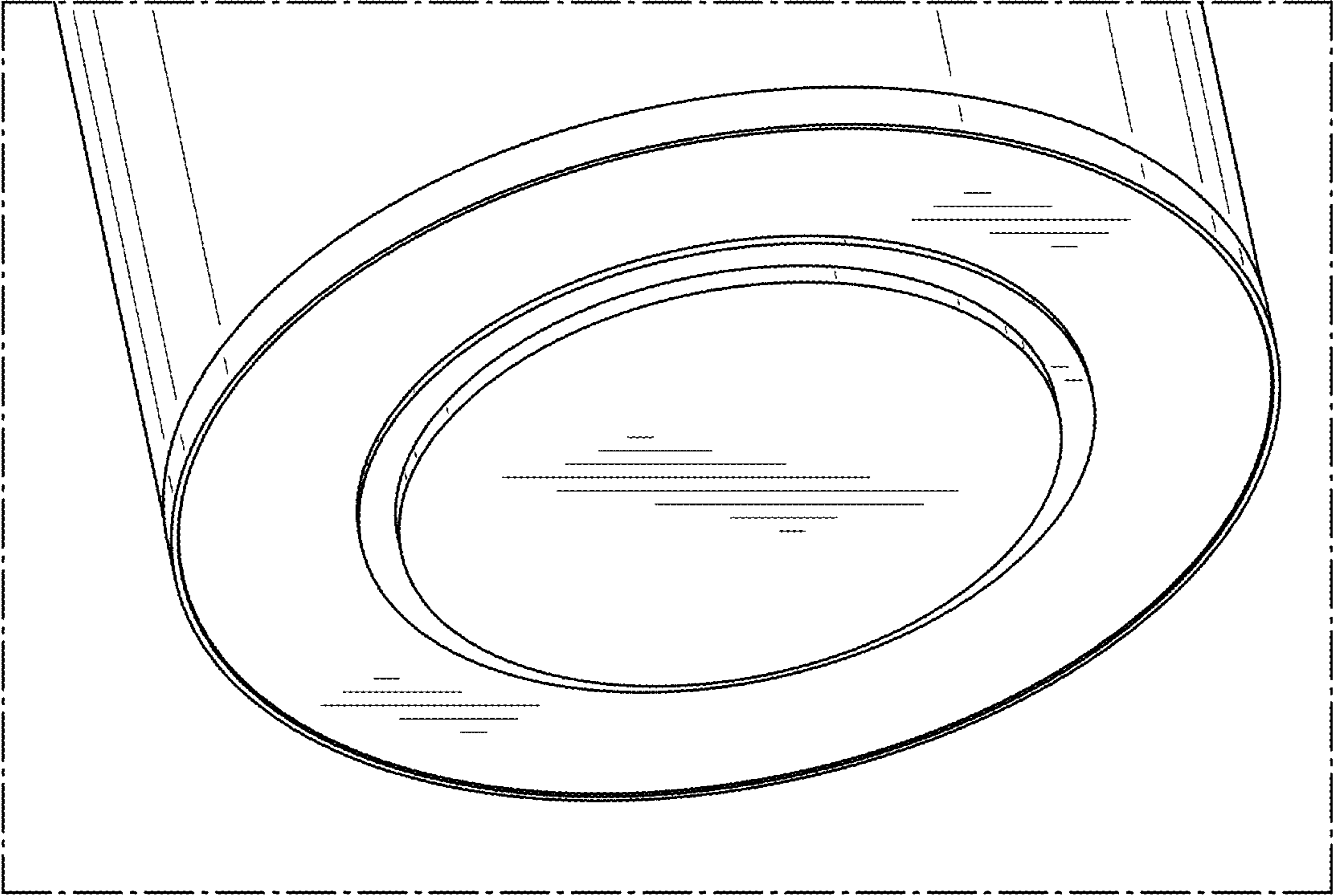


FIG. 9

