



US00D915508S

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

(10) **Patent No.:** **US D915,508 S**

(45) **Date of Patent:** **\*\* Apr. 6, 2021**

(54) **INK CARTRIDGE**

(71) Applicant: **Yoshihisa Minagawa**, Ohta-ku (JP)

(72) Inventor: **Yoshihisa Minagawa**, Ohta-ku (JP)

(73) Assignee: **Ricoh Company, Ltd.**, Tokyo (JP)

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

(21) Appl. No.: **29/669,801**

(22) Filed: **Nov. 12, 2018**

(30) **Foreign Application Priority Data**

May 11, 2018 (JP) ..... 2018-010327 U

(51) **LOC (13) Cl.** ..... **18-02**

(52) **U.S. Cl.**  
USPC ..... **D18/56**

(58) **Field of Classification Search**  
USPC ..... D15/122, 135-138, 141, 66, 73, 76-78;  
D18/53, 59, 50, 14, 19, 54-57, 36-45,  
D18/34.4, 34.5, 34.6, 18, 51;  
D14/301-303, 307, 345; D6/691.4, 675,  
D6/708; D13/107, 108  
CPC ..... B41J 2/14; B41J 1/54; B41J 3/4073; B41J  
3/4078; B41F 17/22; B41F 17/003; B41F  
17/38; B28B 1/001; G03G 15/08; G03G  
15/0891; G03G 15/0875; G03G  
2215/0827; G03G 2215/0855; G03G  
21/1842  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D313,426 S \* 1/1991 Berriman ..... D18/56  
D354,076 S \* 1/1995 Fukuda ..... D18/36  
D410,248 S \* 5/1999 Gasvoda ..... D18/56  
D423,567 S \* 4/2000 Ishigami ..... 347/86  
D424,612 S \* 5/2000 Inoue ..... 347/86

D425,553 S \* 5/2000 Gasvoda ..... D18/56  
D426,261 S \* 6/2000 Gardiner ..... D18/56  
D432,567 S \* 10/2000 Gasvoda ..... D18/2  
D437,610 S \* 2/2001 Gasvoda ..... D18/56  
D444,497 S \* 7/2001 Gasvoda ..... D18/56  
D447,513 S \* 9/2001 Miyazawa ..... D18/56  
D449,068 S \* 10/2001 Miyazawa ..... D18/56  
D467,964 S \* 12/2002 Shinano ..... D18/56  
D477,020 S \* 7/2003 Seino ..... 347/86  
D478,344 S \* 8/2003 Kinoshita ..... D18/43  
D489,756 S \* 5/2004 Matsumoto ..... D18/56  
D536,374 S \* 2/2007 Shinada ..... 347/86  
D540,855 S \* 4/2007 Umezawa ..... 347/86  
D549,280 S \* 8/2007 Morino ..... 347/86  
D556,258 S \* 11/2007 Morino ..... D18/56  
D557,334 S \* 12/2007 Morino ..... D18/56  
D559,893 S \* 1/2008 Kouroku ..... D18/40  
D569,421 S \* 5/2008 Matsumoto ..... 347/86

(Continued)

*Primary Examiner* — George D. Kirschbaum

*Assistant Examiner* — Mary Claire Ramirez

(74) *Attorney, Agent, or Firm* — Oblon, McClelland,  
Maier & Neustadt, L.L.P.

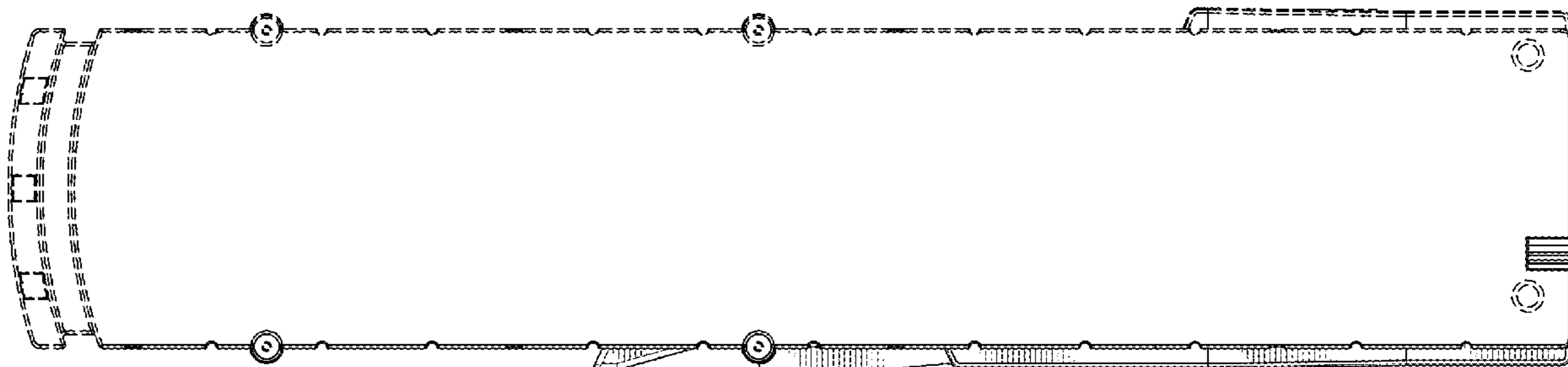
(57) **CLAIM**

The ornamental design for an ink cartridge, as shown and described.

**DESCRIPTION**

FIG. 1 is a rear, bottom, and right side perspective view of an ink cartridge showing the new design; FIG. 2 is a right side elevational view thereof; FIG. 3 is a left side elevational view thereof; FIG. 4 is a top plan view thereof; FIG. 5 is a bottom plan view thereof; FIG. 6 is a rear elevational view thereof; FIG. 7 is a front elevational view thereof; and, FIG. 8 is an enlarged rear elevational view thereof. The broken lines shown in the figures are for the purpose of illustrating portions of the ink cartridge that form no part of the claimed design.

**1 Claim, 5 Drawing Sheets**



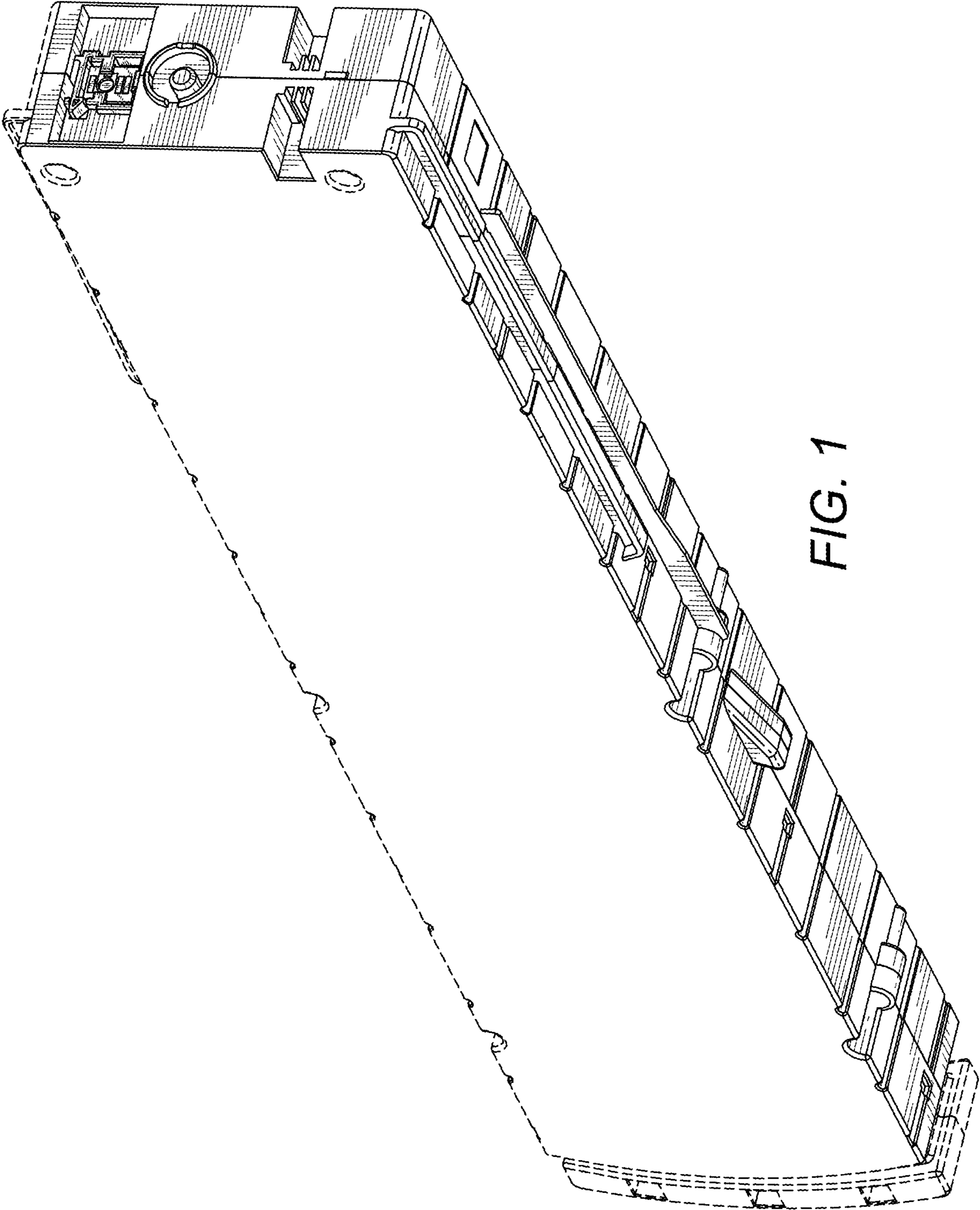
(56)

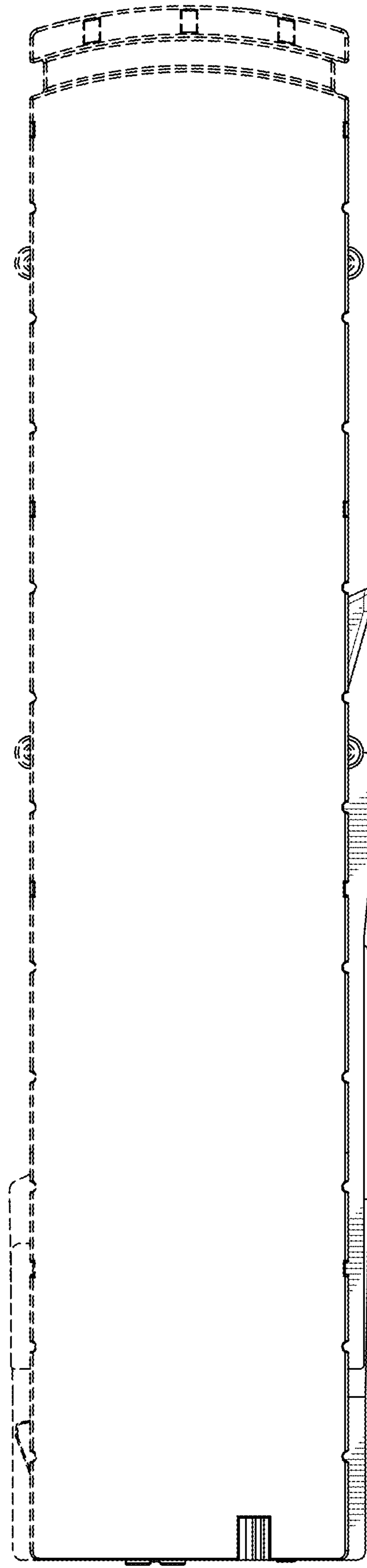
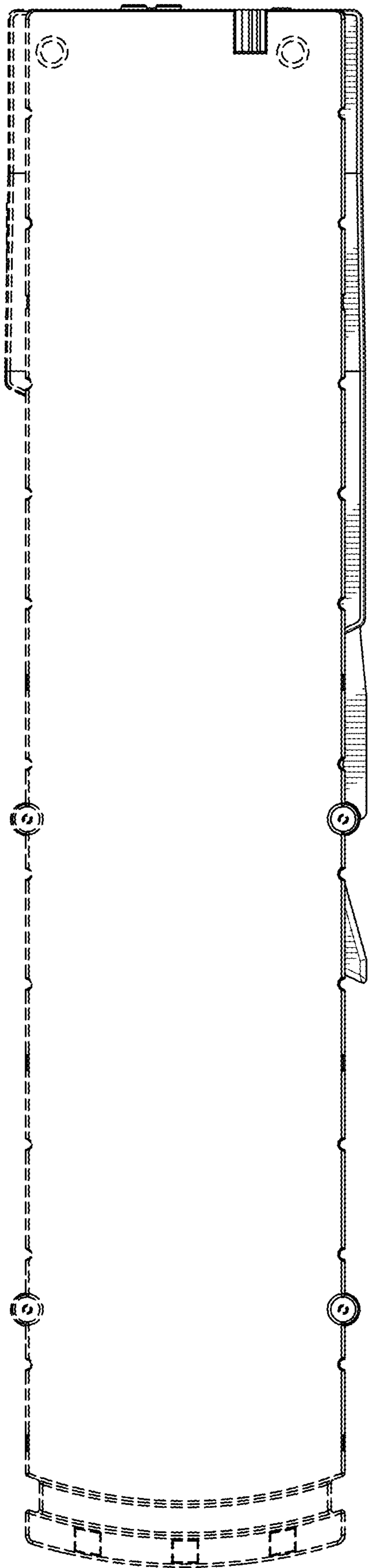
References Cited

U.S. PATENT DOCUMENTS

D580,485	S *	11/2008	Park	.....	D18/43
D580,971	S *	11/2008	Yuen	.....	D18/56
D586,849	S *	2/2009	Nozawa	.....	347/86
D587,748	S *	3/2009	Anderson, Jr.	.....	D18/56
D591,340	S *	4/2009	Nozawa	.....	347/86
D592,241	S *	5/2009	Nozawa	.....	347/86
D595,767	S *	7/2009	Hashimoto	.....	347/86
D629,040	S *	12/2010	Ricci	.....	D18/56
D637,227	S *	5/2011	Deng	.....	D18/56
D650,419	S *	12/2011	Butler	.....	D18/56
D656,184	S *	3/2012	Iwamuro	.....	D18/56
D656,185	S *	3/2012	Oya	.....	D18/56
D656,540	S *	3/2012	Oya	.....	D18/56
D666,240	S *	8/2012	Kawate	.....	D18/56
D677,722	S *	3/2013	Mizuno	.....	D18/56
D678,404	S *	3/2013	Saito	.....	D18/56
D678,405	S *	3/2013	Okuda	.....	D18/56
D678,408	S *	3/2013	Egami	.....	D18/56
D682,929	S *	5/2013	Aoki	.....	D18/56
D682,930	S *	5/2013	Aoki	.....	D18/56
D695,823	S *	12/2013	Nozawa	.....	D18/56
8,931,887	B2 *	1/2015	Aoki	.....	B41J 2/1721
					347/86
8,960,871	B2 *	2/2015	Karasawa	.....	B41J 2/17566
					347/86
D767,674	S *	9/2016	Nanjo	.....	D18/56
9,440,755	B2 *	9/2016	Aoki	.....	B65B 3/045
D787,586	S *	5/2017	Van Den Broecke	.....	D18/56
D817,392	S *	5/2018	Koizumi	.....	D18/56

\* cited by examiner







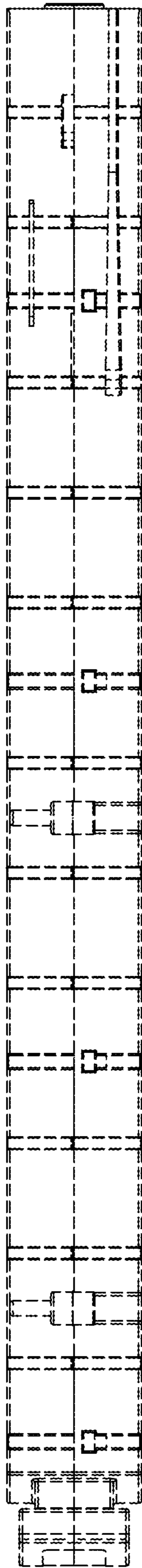


FIG. 4

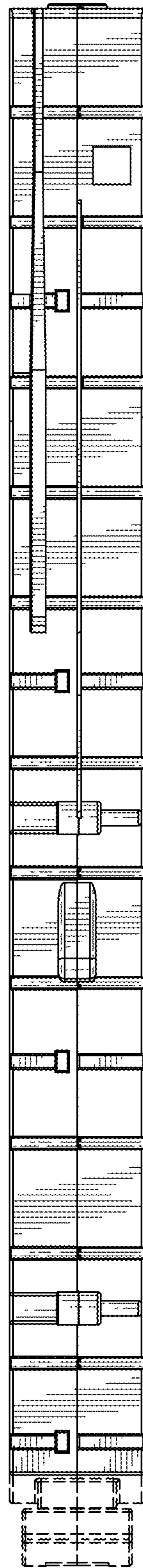


FIG. 5

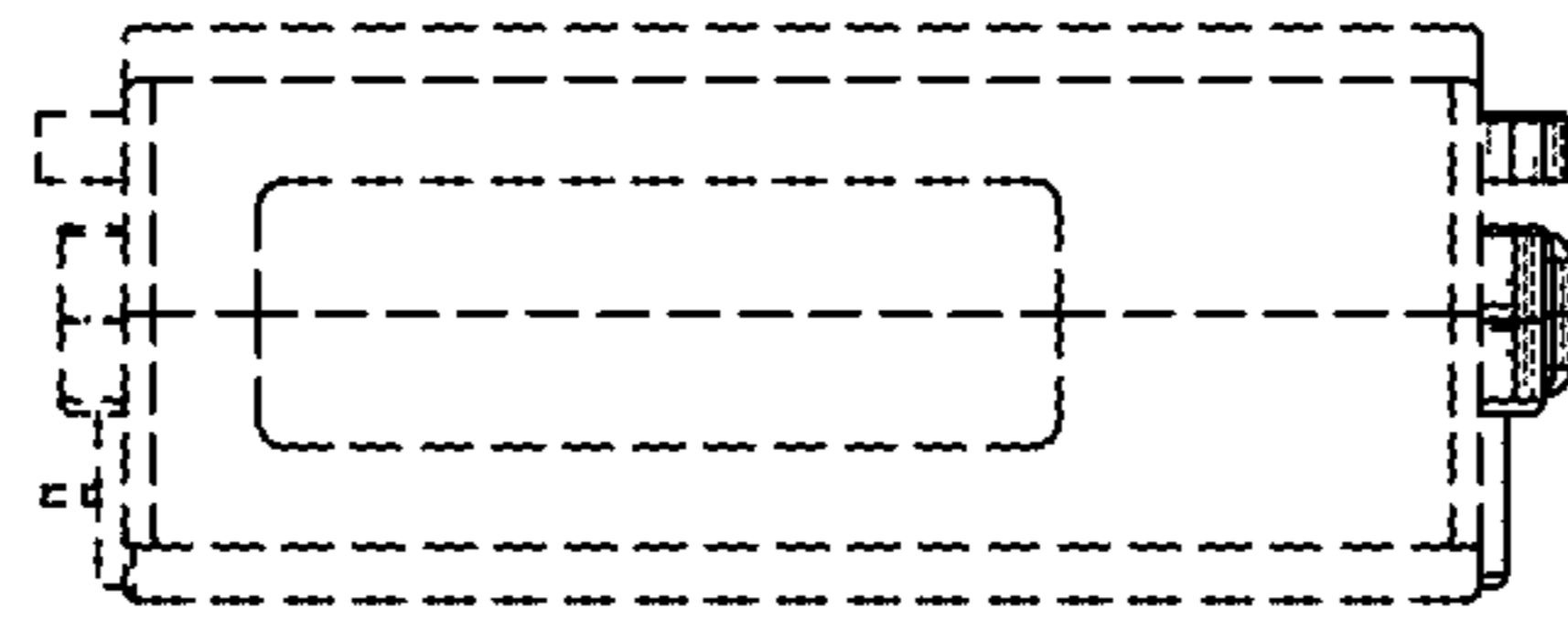


FIG. 7

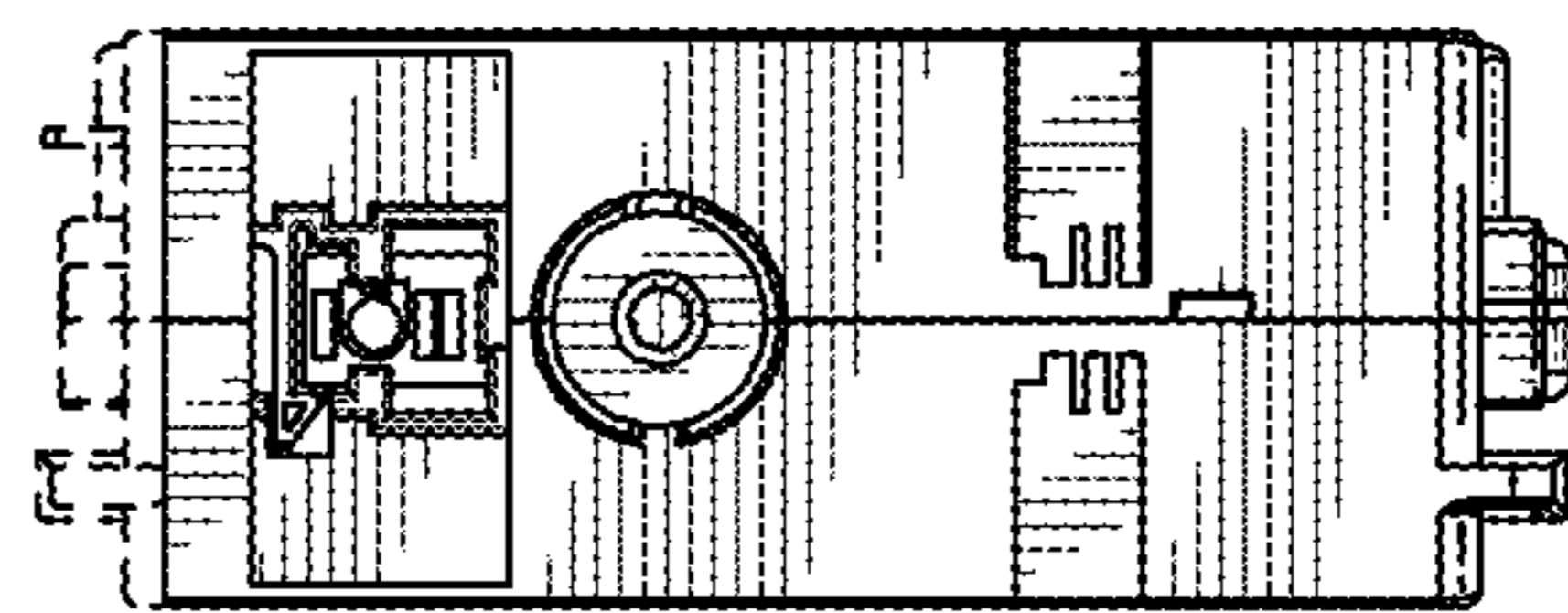


FIG. 6

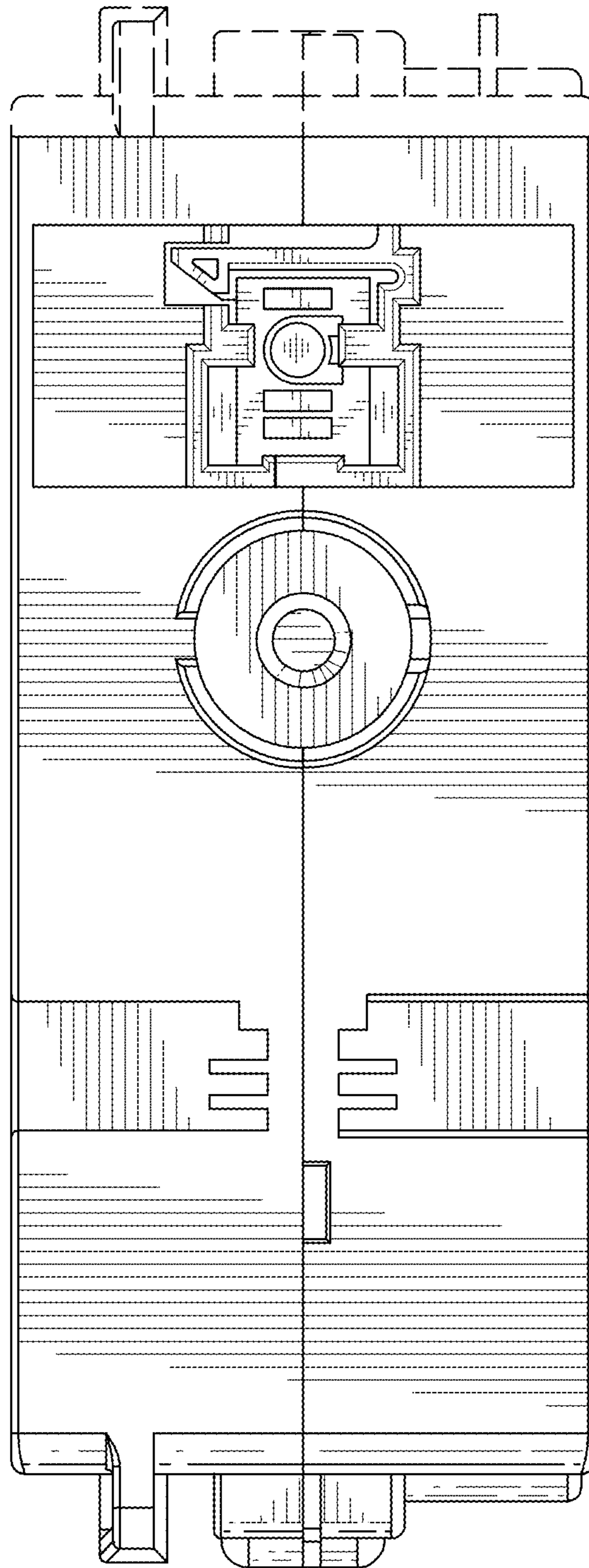


FIG. 8