



US00D638053S

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

(10) **Patent No.:** **US D638,053 S**
(45) **Date of Patent:** **** May 17, 2011**

(54) **PHOTOSENSITIVE DRUM UNIT**

(75) Inventors: **Fumikazu Sato**, Konan (JP); **Naoya Kamimura**, Ichinomiya (JP); **Nao Itabashi**, Nagoya (JP); **Hideshi Nishiyama**, Nagoya (JP)

(73) Assignee: **Brother Industries, Ltd.**, Nagoya (JP)

(**) Term: **14 Years**

(21) Appl. No.: **29/334,217**

(22) Filed: **Mar. 23, 2009**

(30) **Foreign Application Priority Data**

Sep. 30, 2008 (JP) 2008-025144
Sep. 30, 2008 (JP) 2008-025145

(51) **LOC (9) Cl.** **16-03**

(52) **U.S. Cl.** **D18/43**

(58) **Field of Classification Search** D14/471;
D18/12, 36, 40, 43, 44, 56; 222/DIG. 1;
347/197, 222; 399/24-28, 107-112, 119,
399/121, 122, 222-224

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D361,590 S	8/1995	Ishida	
D381,677 S	7/1997	Makino	
D419,182 S	* 1/2000	Tsuda et al.	D18/43
D422,304 S	4/2000	Suzuki et al.	
D423,559 S	* 4/2000	Suzuki et al.	D18/40
D442,216 S	5/2001	Kimura et al.	
D447,511 S	* 9/2001	Kimura et al.	D18/40
D471,228 S	3/2003	Okabe et al.	
D471,583 S	3/2003	Okabe et al.	
D487,108 S	2/2004	Morita et al.	
D506,776 S	6/2005	Kobayashi et al.	
D507,295 S	7/2005	Ishii et al.	
D507,296 S	7/2005	Ishii et al.	
D507,595 S	7/2005	Kobayashi et al.	
D507,596 S	7/2005	Kobayashi et al.	
D507,597 S	7/2005	Kobayashi et al.	
D507,809 S	7/2005	Kobayashi et al.	
D508,945 S	8/2005	Ishii et al.	

D509,239 S 9/2005 Ishii et al.
D510,947 S 10/2005 Ishii et al.
D511,542 S 11/2005 Ishii et al.

(Continued)

OTHER PUBLICATIONS

Kamimura et al.; U.S. Appl. No. 29/276,997, filed Feb. 9, 2007.

(Continued)

Primary Examiner — Garth Rademaker

(74) *Attorney, Agent, or Firm* — Oliff & Berridge, PLC

(57) **CLAIM**

The ornamental design for a photosensitive drum unit, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a photosensitive drum unit according to a first embodiment;

FIG. 2 is a front view thereof;

FIG. 3 is a top view thereof;

FIG. 4 is a right-side view thereof;

FIG. 5 is a left-side view thereof;

FIG. 6 is a rear view thereof;

FIG. 7 is a bottom view thereof;

FIG. 8 is another perspective view thereof;

FIG. 9 is a cross-sectional view thereof taken along the line 9—9 of FIG. 2;

FIG. 10 is a perspective view of a photosensitive drum unit according to a second embodiment;

FIG. 11 is a front view thereof;

FIG. 12 is a top view thereof;

FIG. 13 is a right-side view thereof;

FIG. 14 is a left-side view thereof;

FIG. 15 is a rear view thereof;

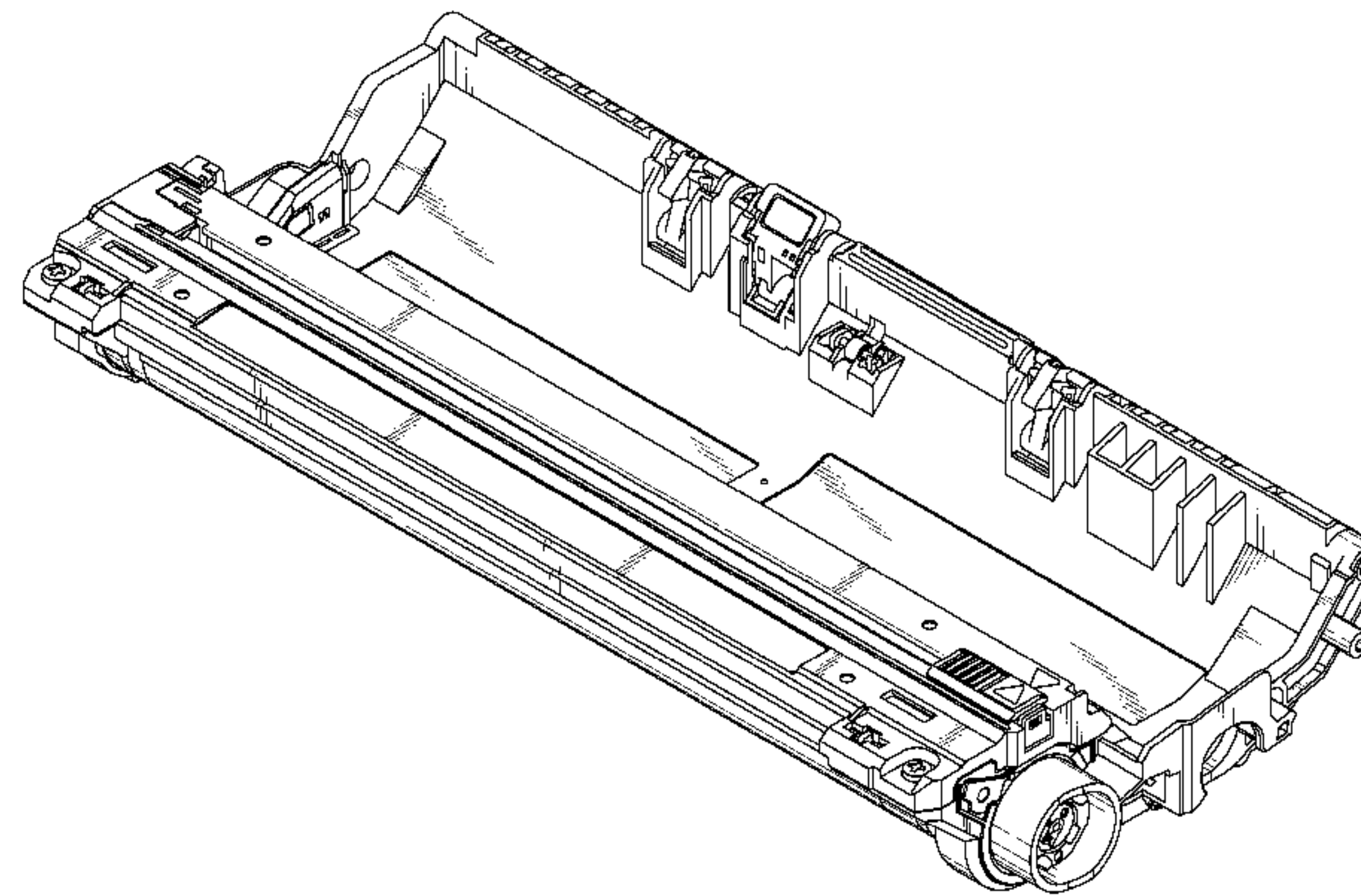
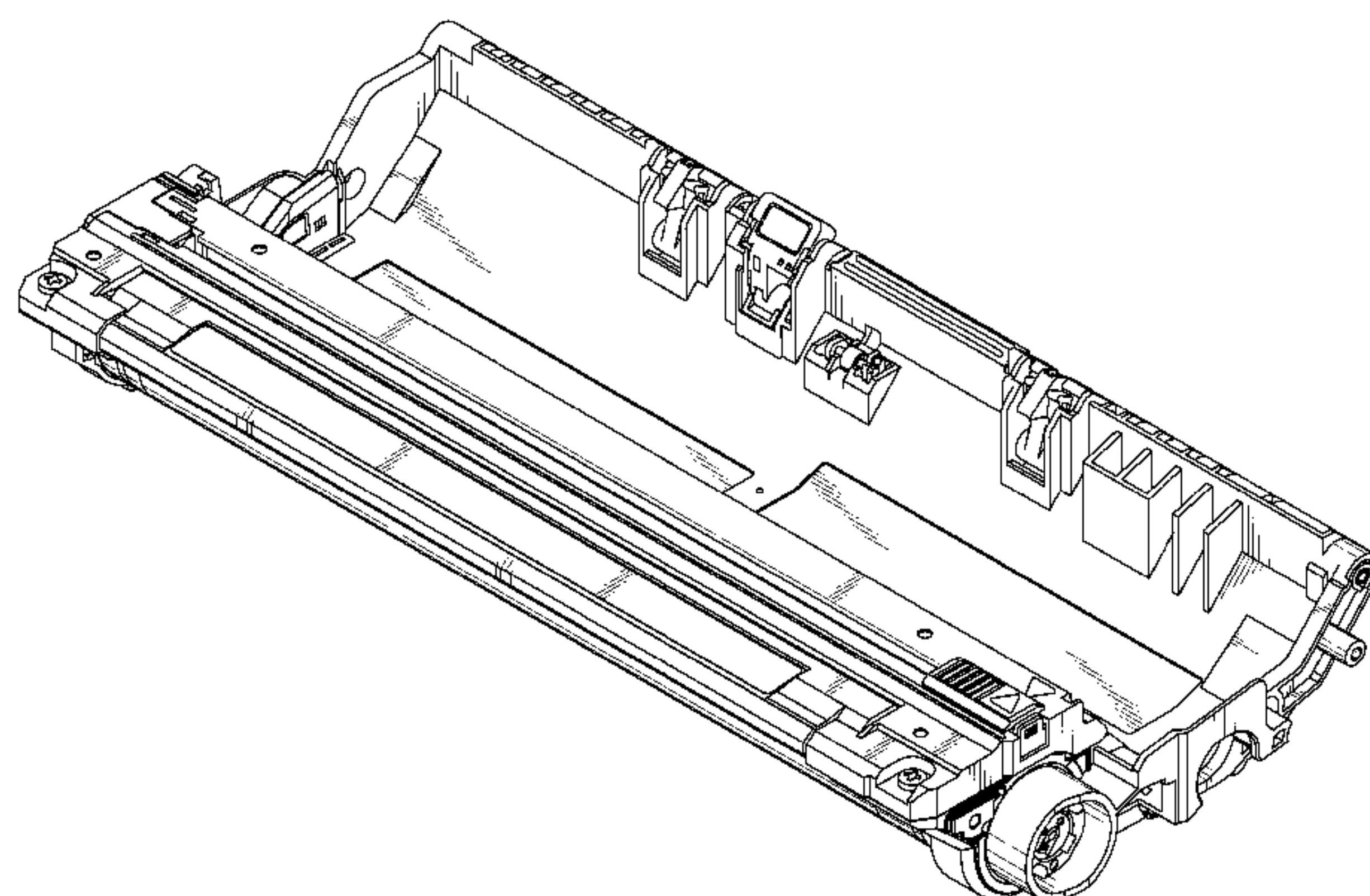
FIG. 16 is a bottom view thereof;

FIG. 17 is another perspective view thereof; and,

FIG. 18 is a cross-sectional view thereof taken along the line 18—18 of FIG. 11.

The broken lines depict environmental subject matter only and form no part of the claimed design.

1 Claim, 16 Drawing Sheets



U.S. PATENT DOCUMENTS

D512,092	S	11/2005	Kobayashi et al.	
D512,454	S	12/2005	Ishii et al.	
D521,545	S	5/2006	Ishii et al.	
D522,564	S	6/2006	Ishii et al.	
D523,894	S	6/2006	Ishii et al.	
D523,895	S	6/2006	Ishii et al.	
D523,896	S	6/2006	Ishii et al.	
D528,148	S	9/2006	Ishii et al.	
D531,660	S	11/2006	Ishii et al.	
D531,661	S	11/2006	Ishii et al.	
D533,215	S	12/2006	Ishii et al.	
D533,583	S	12/2006	Kobayashi et al.	
D538,332	S	3/2007	Hoshiya et al.	
D550,763	S	9/2007	Ishikawa et al.	
D550,764	S	9/2007	Ishikawa et al.	
D550,765	S	9/2007	Ishikawa et al.	
D550,766	S	9/2007	Takagi	
D550,767	S	9/2007	Kishi	
D551,285	S	9/2007	Ishikawa et al.	
D566,169	S	4/2008	Ishikawa et al.	
D579,484	S	10/2008	Kamimura et al.	
D579,970	S	11/2008	Kamimura et al.	
D594,899	S *	6/2009	Ogasawara et al.	D18/43
D594,900	S *	6/2009	Ogasawara et al.	D18/43

D601,184	S *	9/2009	Ogasawara et al.	D18/43
2006/0245786	A1 *	11/2006	Suzuki	399/111
2008/0279583	A1 *	11/2008	Ishii et al.	399/116
2010/0129111	A1 *	5/2010	Tamura	399/111

OTHER PUBLICATIONS

Kamimura et al.; U.S. Appl. No. 29/276,998, filed Feb. 9, 2007.
Ogasawara et al.; U.S. Appl. No. 29/303,524, filed Feb. 11, 2008.
Ogasawara et al.; U.S. Appl. No. 29/303,525, filed Feb. 11, 2008.
Kamimura et al.; U.S. Appl. No. 29/276,993, filed Feb. 9, 2007.
Kamimura et al.; U.S. Appl. No. 29/276,991, filed Feb. 9, 2007.
Kamimura et al.; U.S. Appl. No. 29/276,994, filed Feb. 9, 2007.
Ishikawa et al.; U.S. Appl. No. 29/303,513, filed Feb. 11, 2008.
Ishikawa; U.S. Appl. No. 29/303,515, filed Feb. 11, 2008.
Ishikawa et al.; U.S. Appl. No. 29/303,523, filed Feb. 11, 2008.
Ogasawara et al.; U.S. Appl. No. 29/303,528, filed Feb. 11, 2008.
Kamimura et al.; U.S. Appl. No. 29/276,996, filed Feb. 9, 2007.
Ishii et al.; U.S. Appl. No. 29/222,088, filed Jan. 27, 2005.
Kobayashi et al.; U.S. Appl. No. 29/197,021, filed Jan. 8, 2004.
Kobayashi et al.; U.S. Appl. No. 29/197,016, filed Jan. 8, 2004.
Ishikawa et al.; U.S Appl. No. 29/245,317, filed Dec. 22, 2005.

* cited by examiner

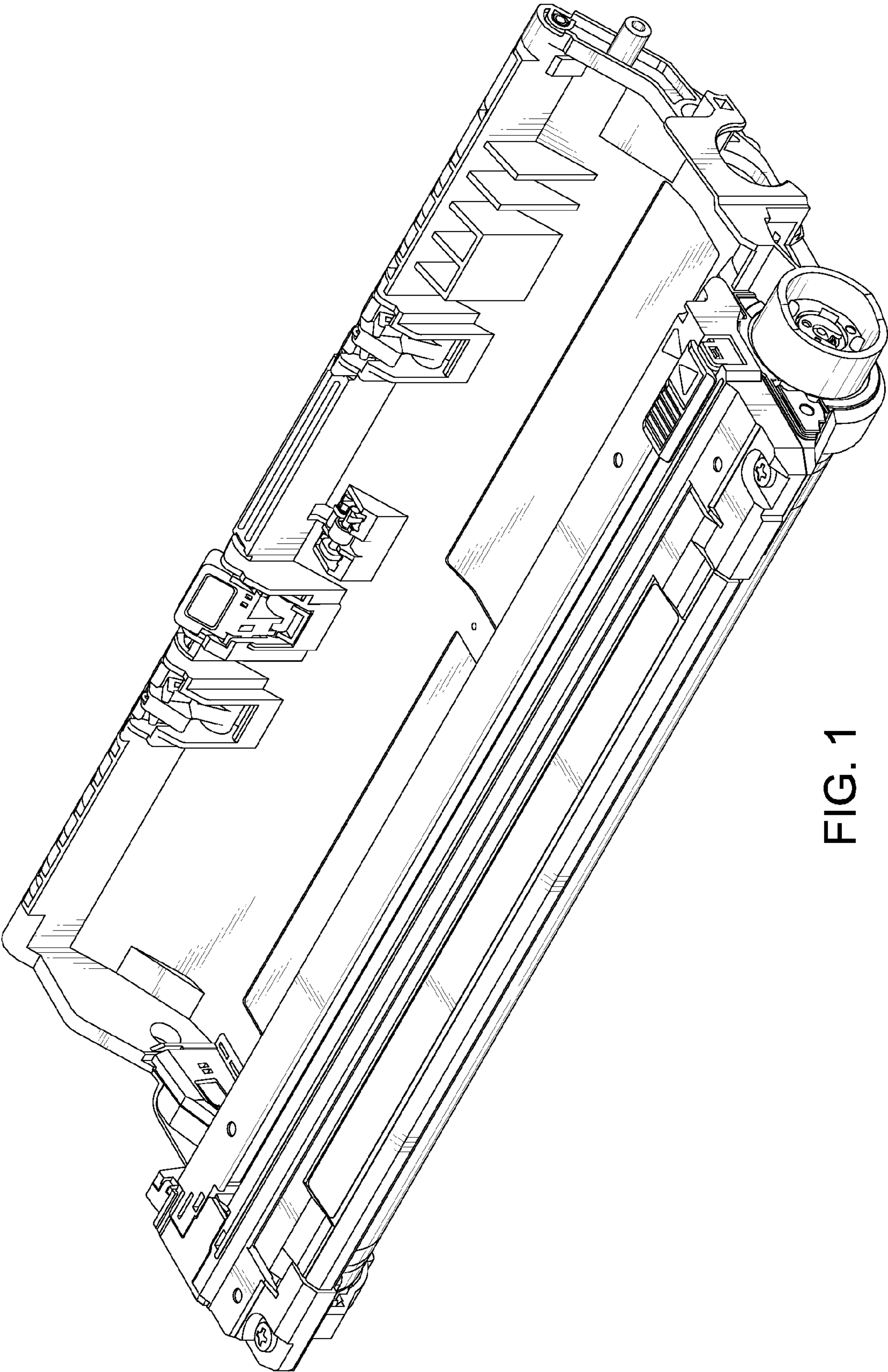


FIG. 1

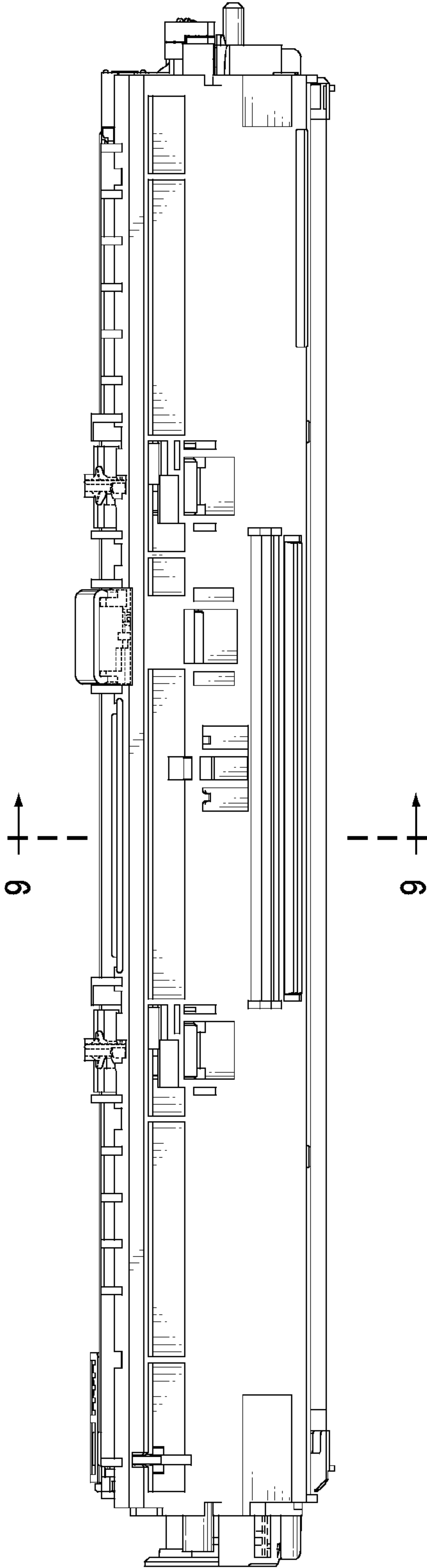


FIG. 2

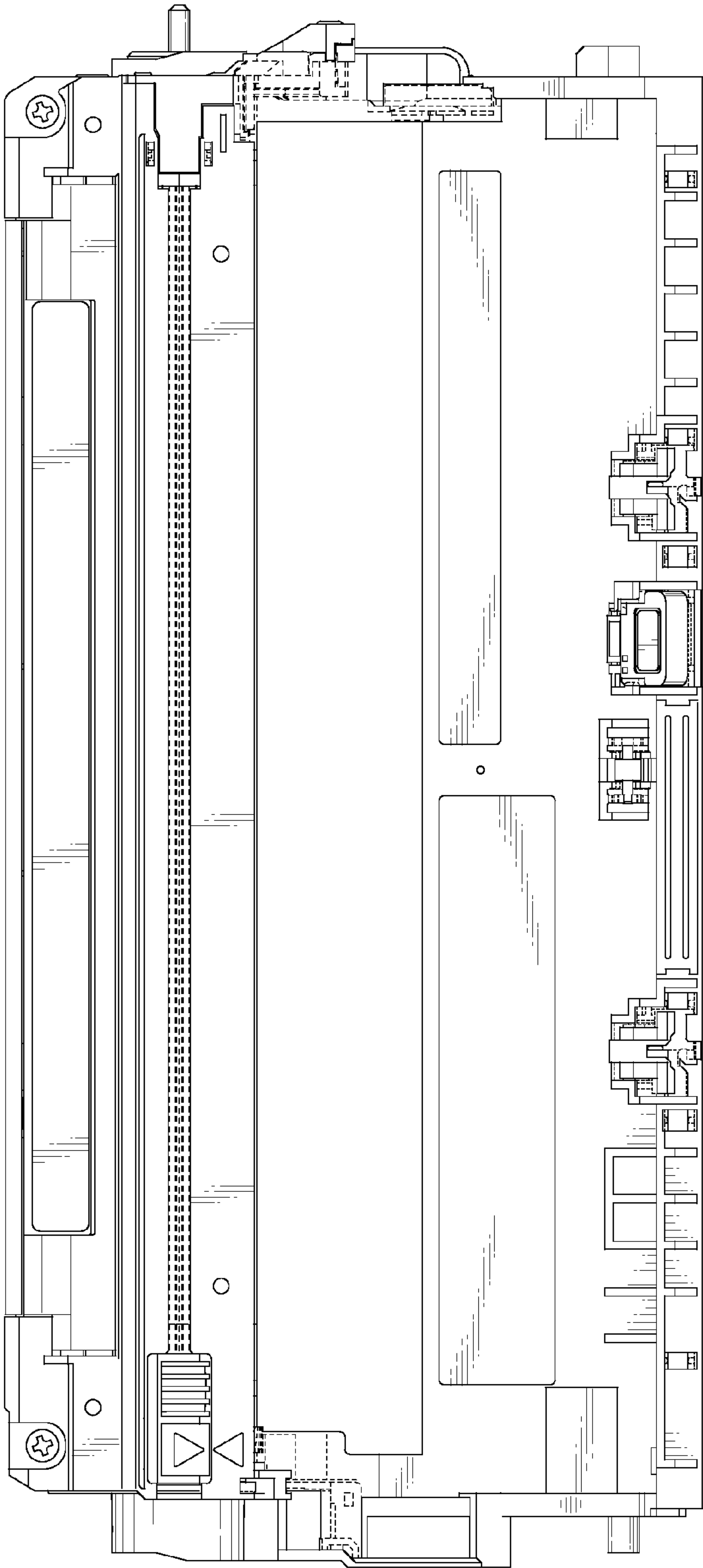


FIG. 3

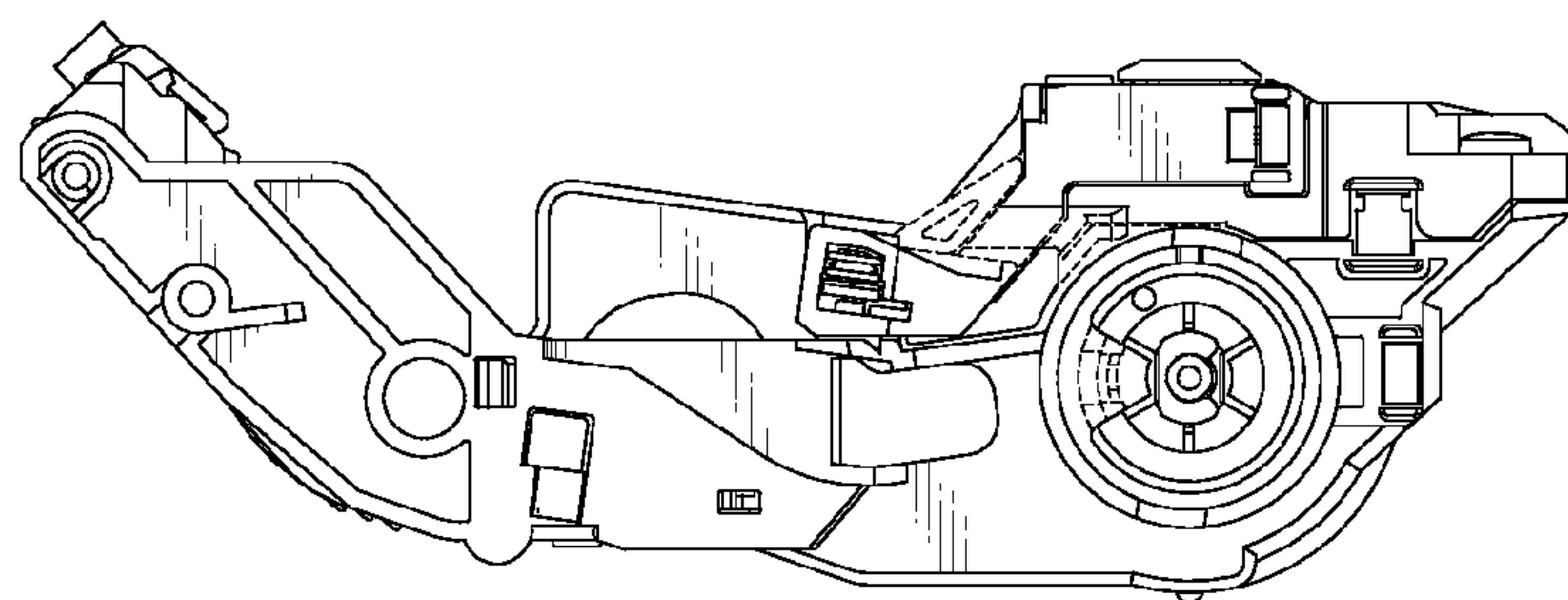


FIG. 4

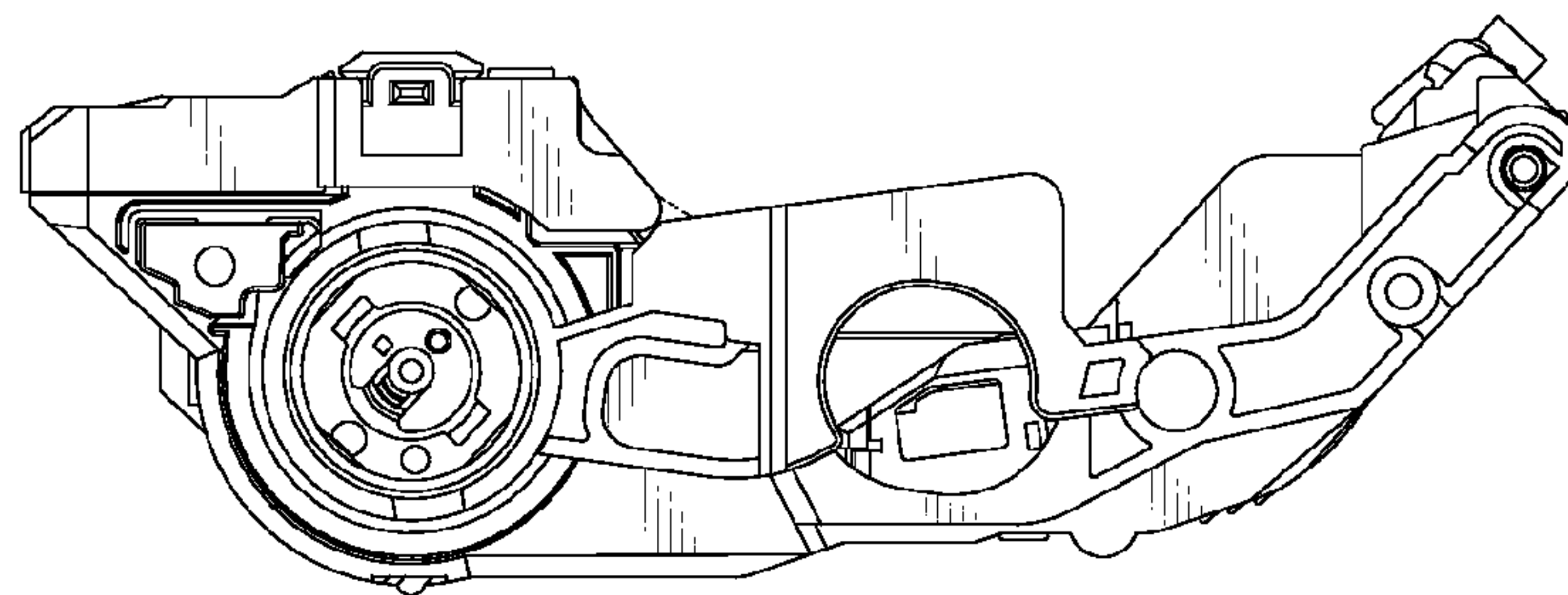


FIG. 5

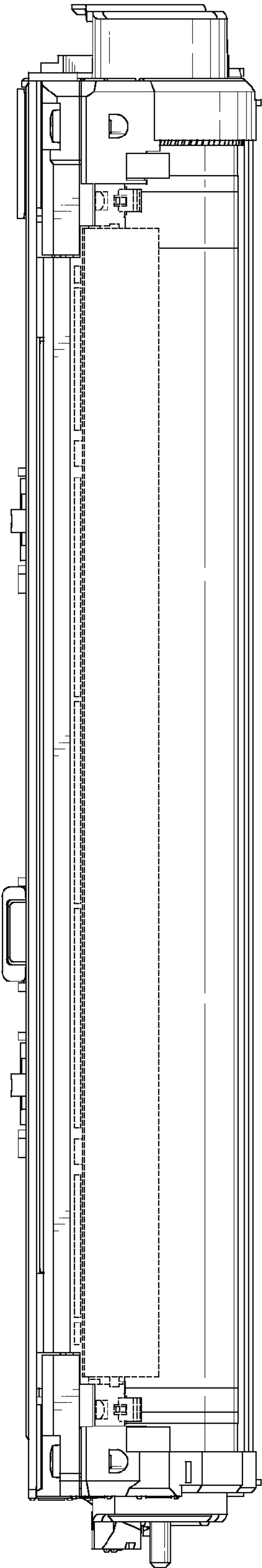


FIG. 6

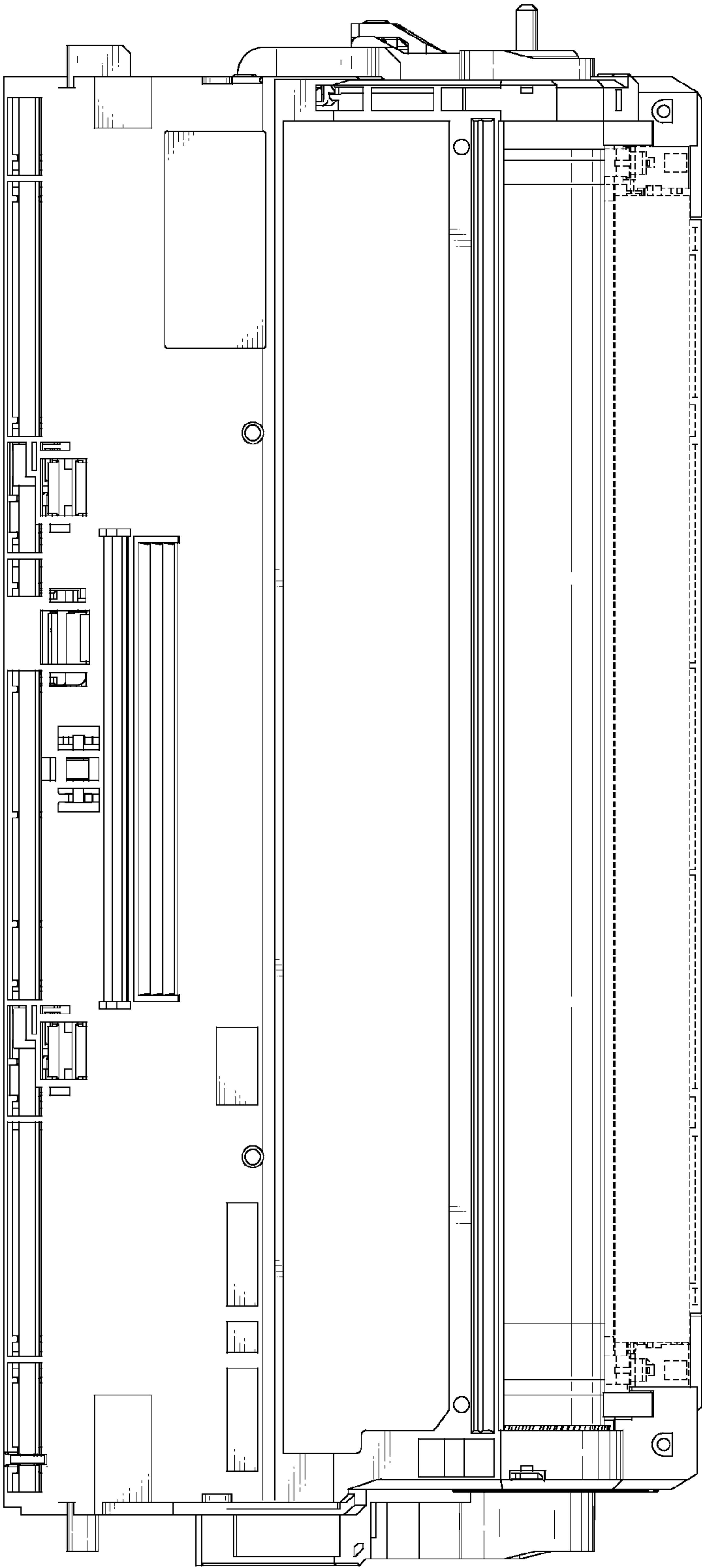


FIG. 7

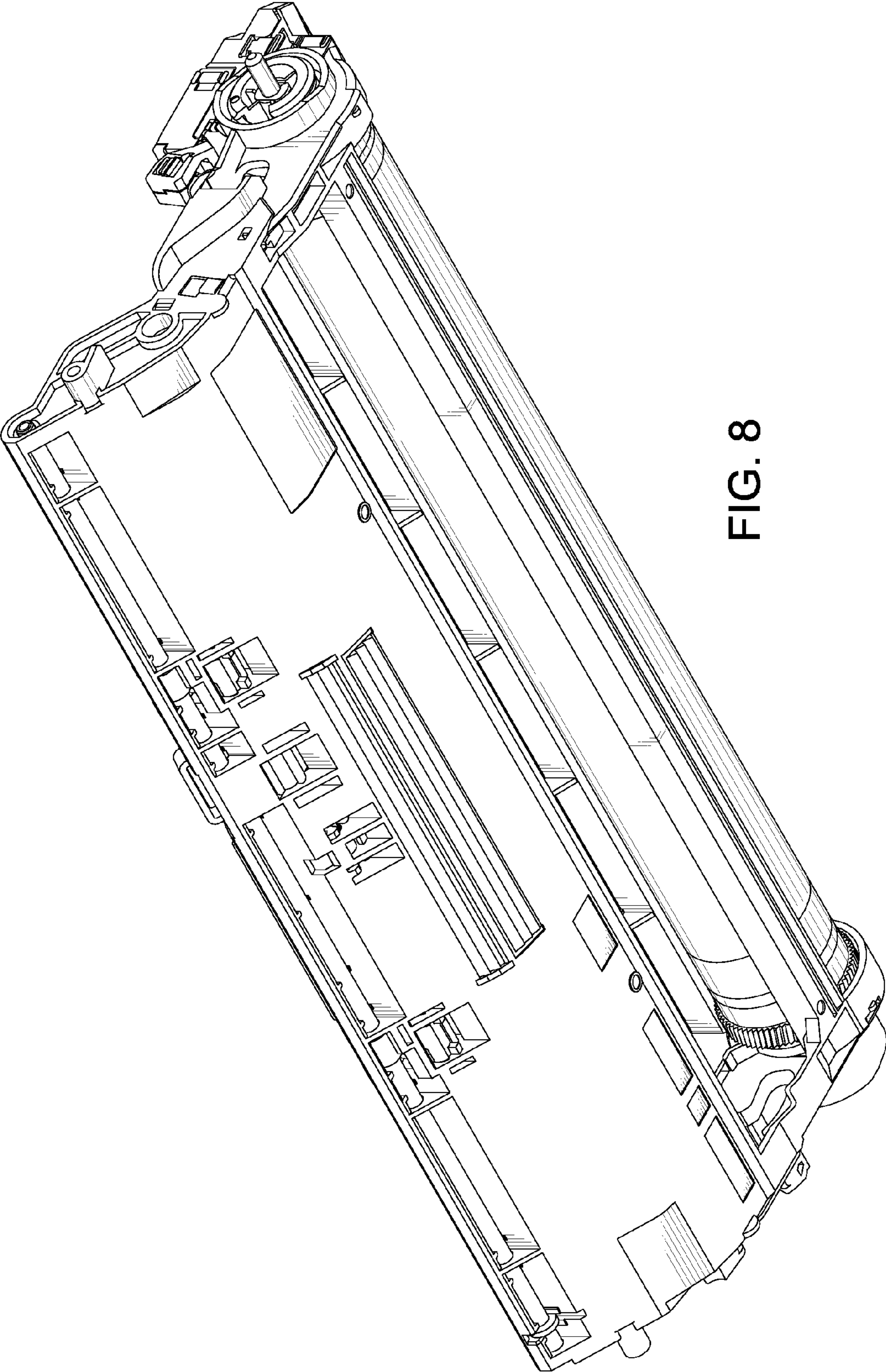


FIG. 8

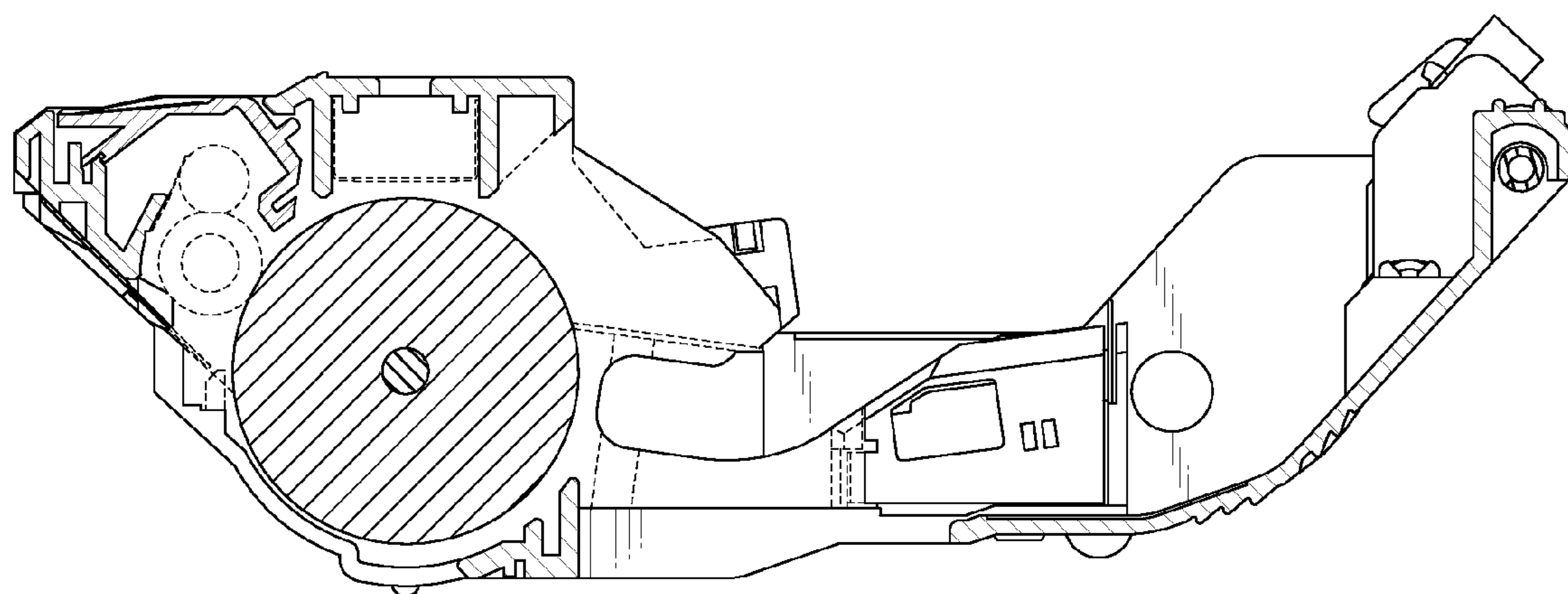


FIG. 9

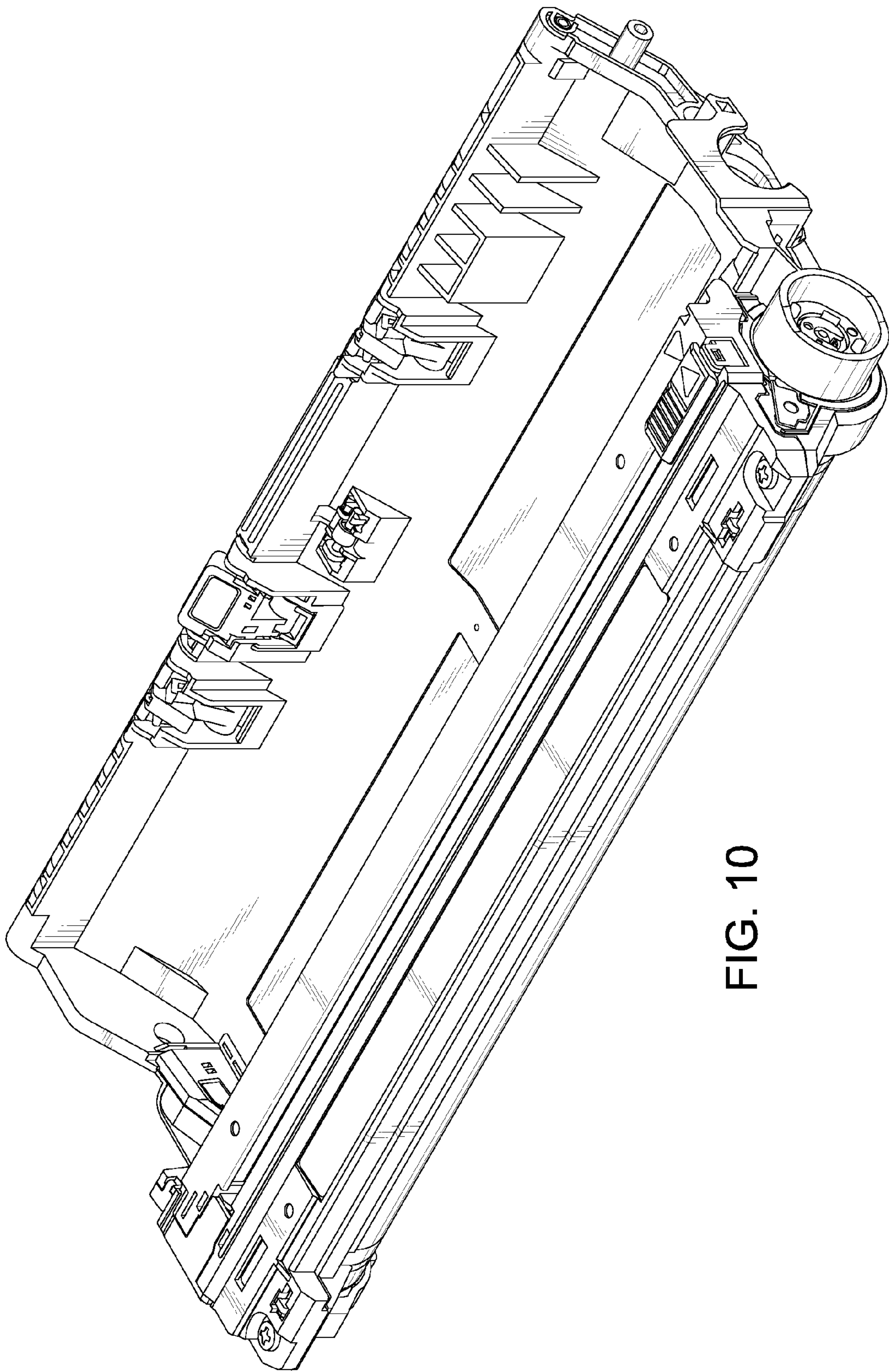


FIG. 10

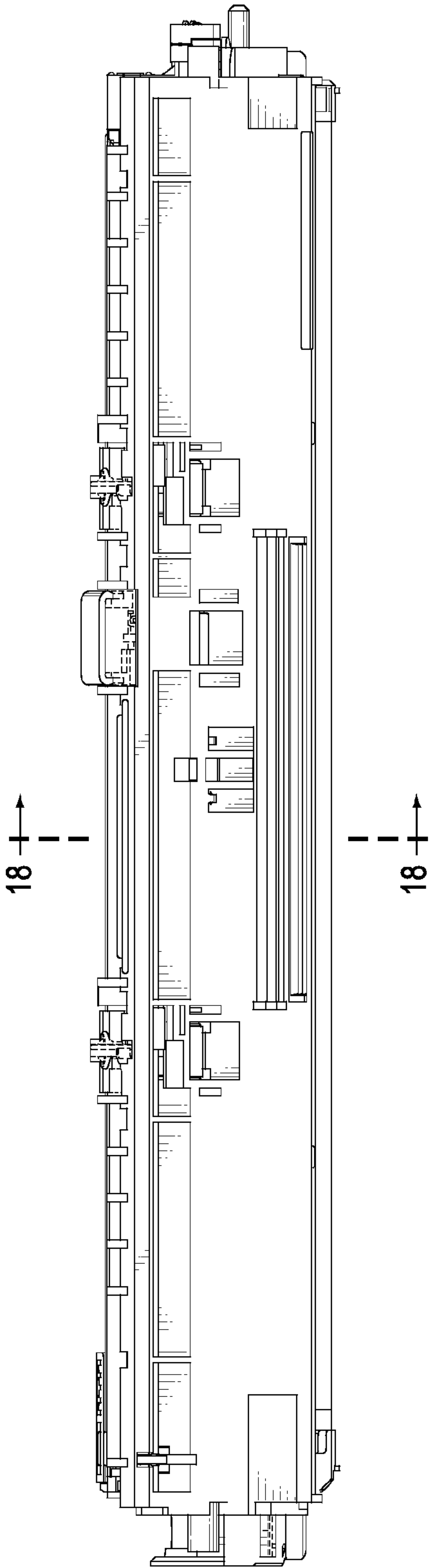


FIG. 11

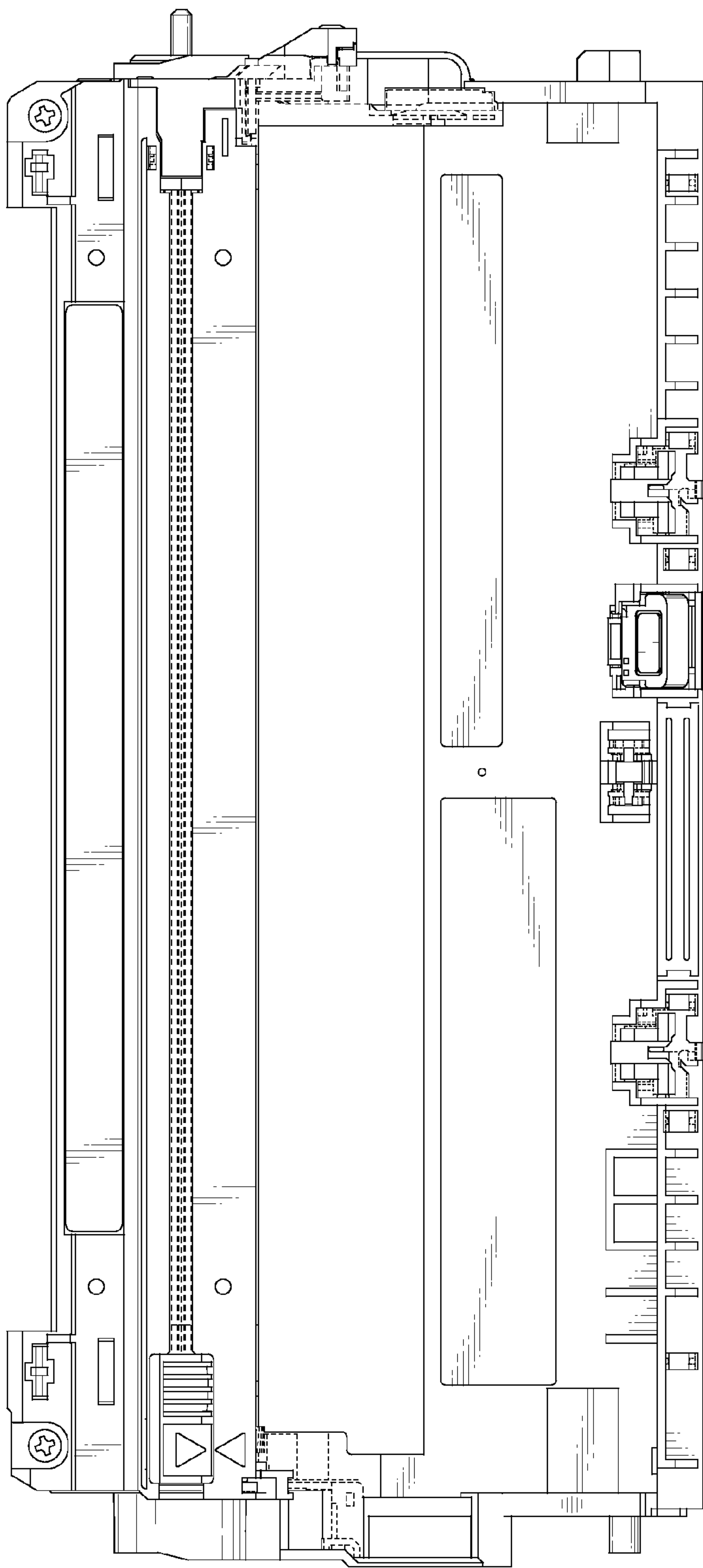


FIG. 12

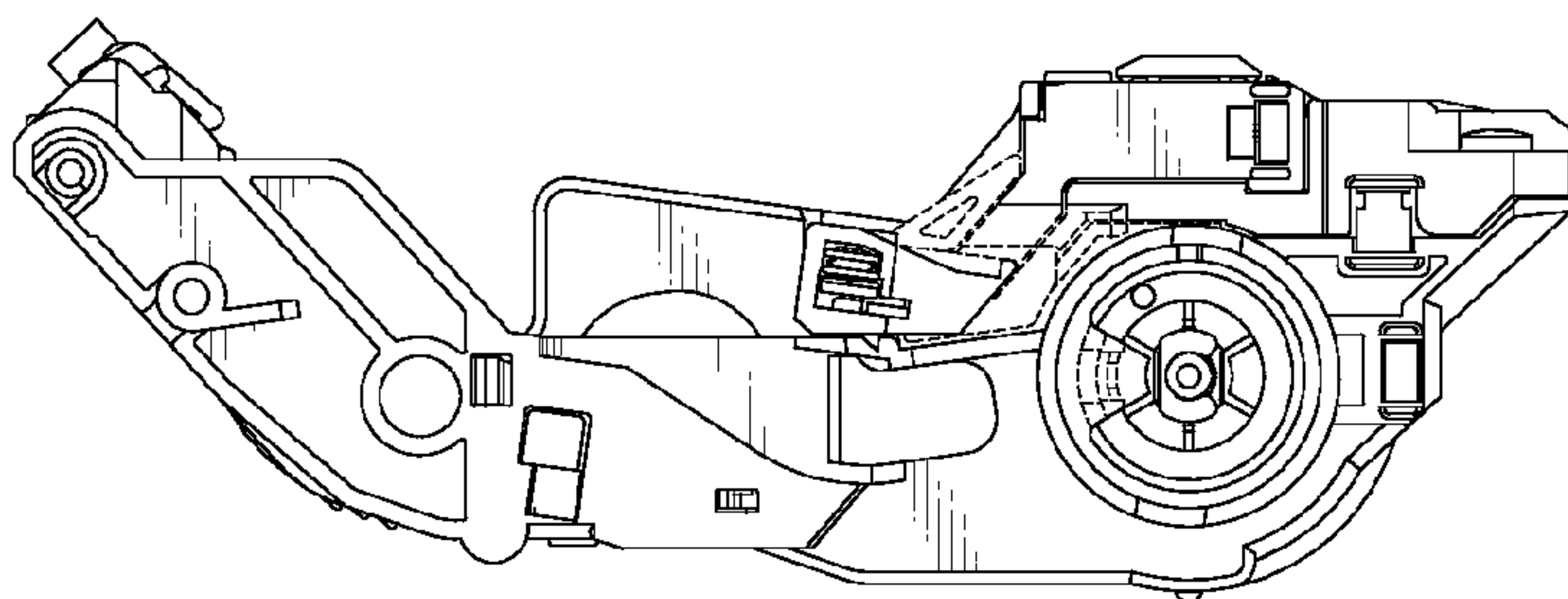


FIG. 13

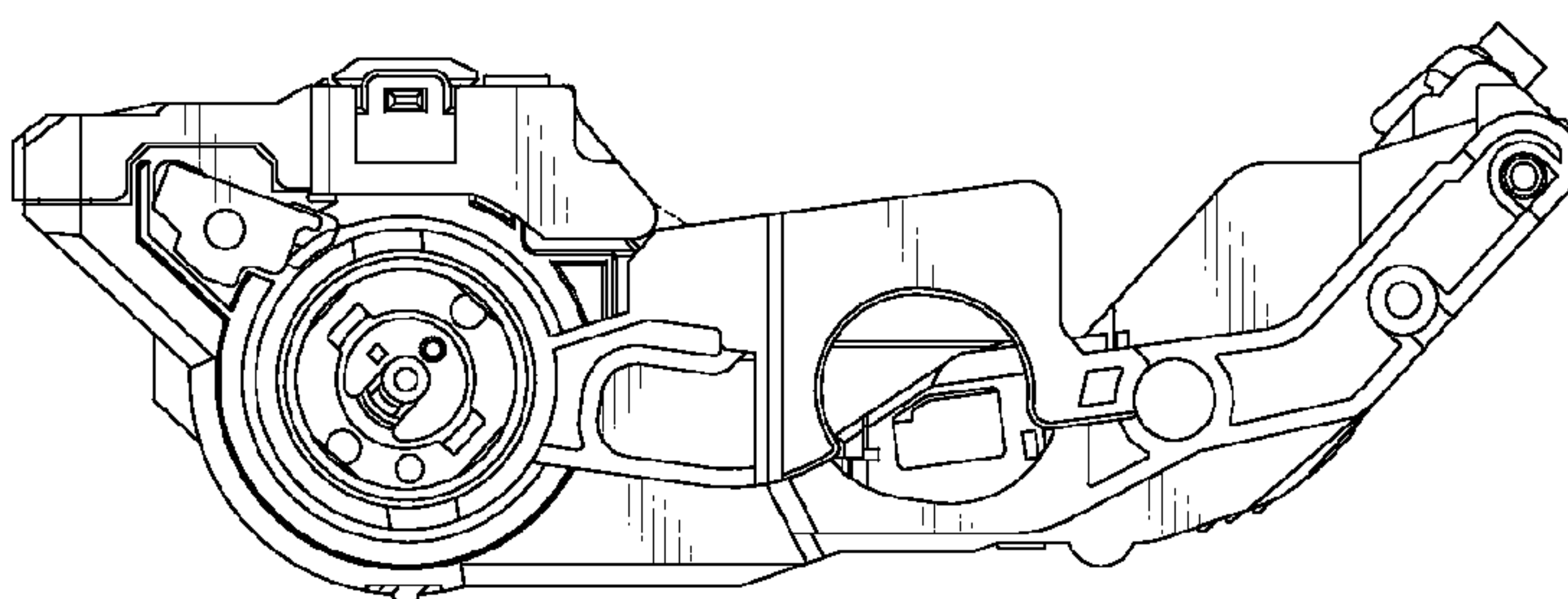


FIG. 14

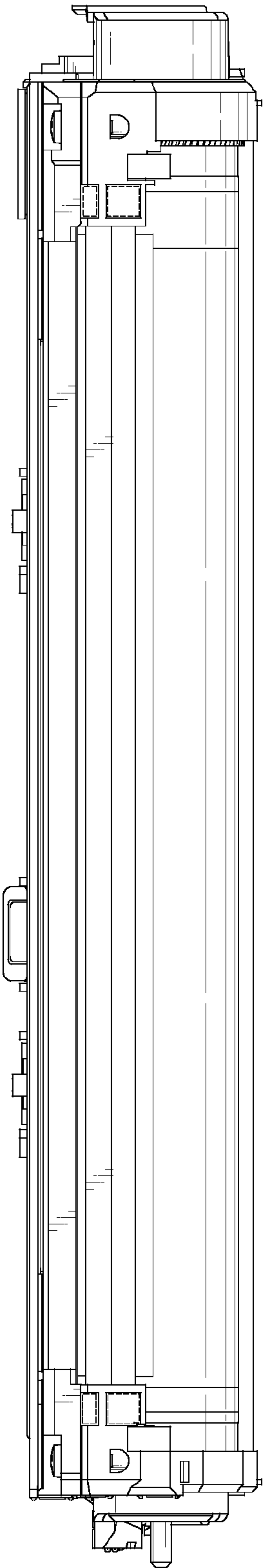


FIG. 15

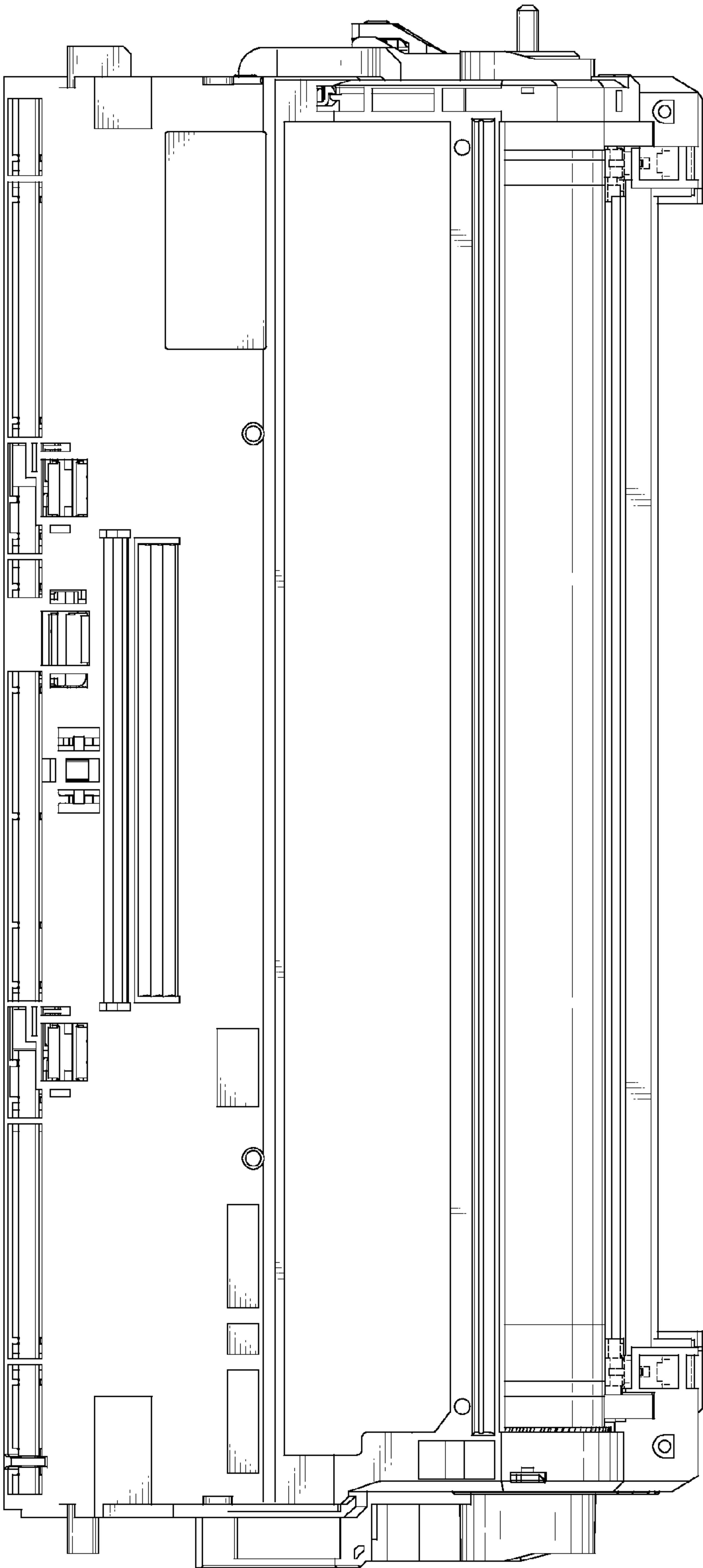


FIG. 16

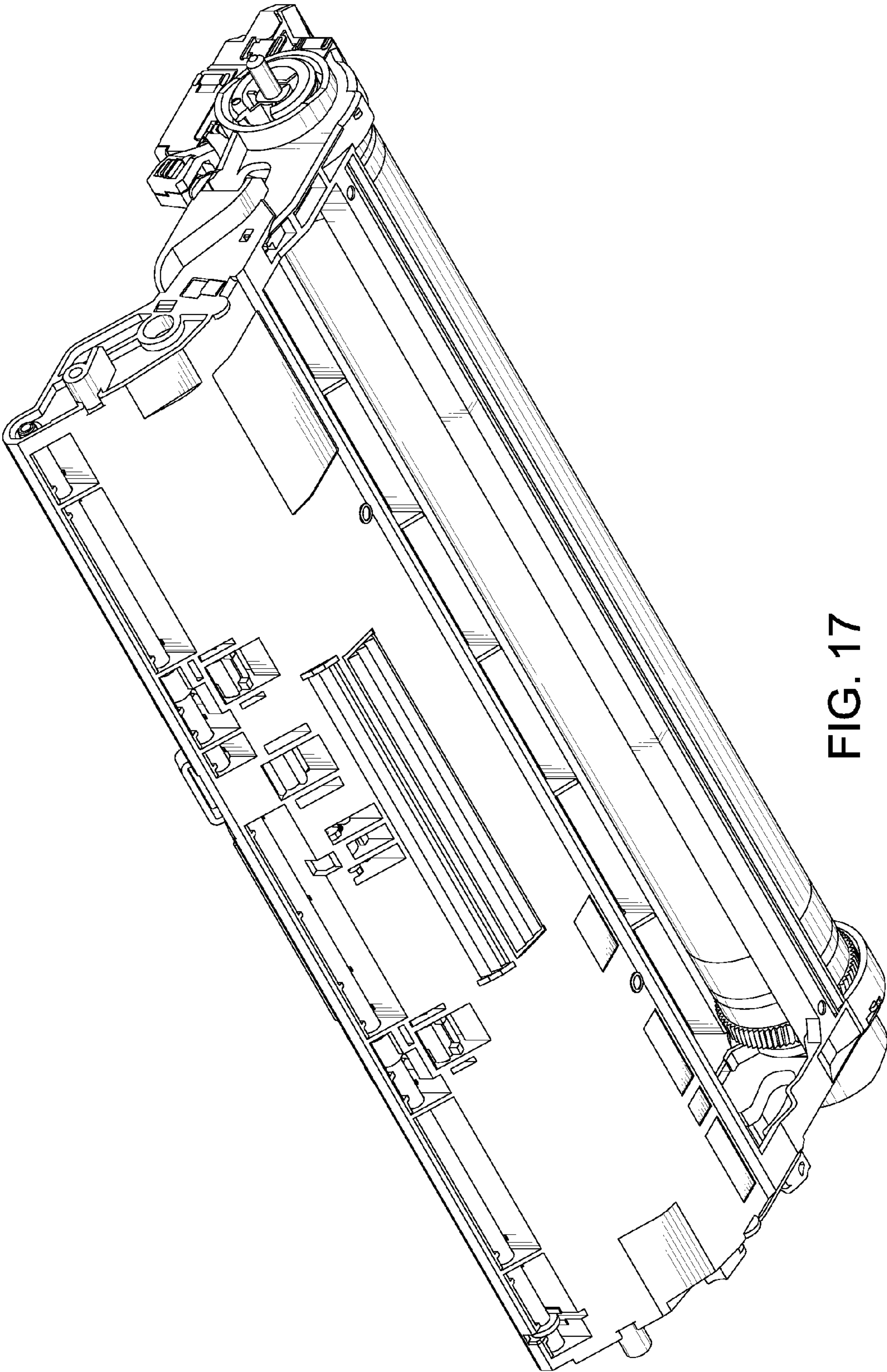


FIG. 17

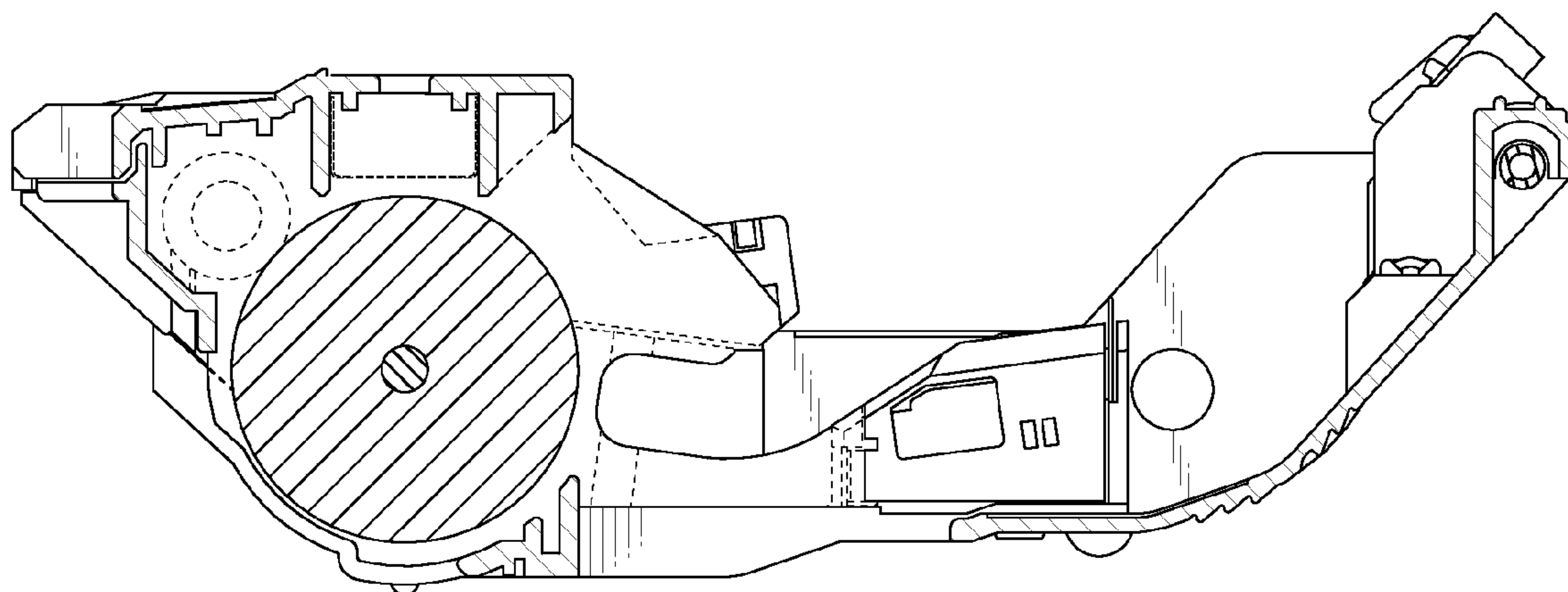


FIG. 18