



US00D984770S

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

(10) **Patent No.:** **US D984,770 S**

(45) **Date of Patent:** **** Apr. 25, 2023**

(54) **NOZZLE FOR VACUUM CLEANER**

(71) Applicant: **LG ELECTRONICS INC.**, Seoul (KR)

(72) Inventors: **Jinju Kim**, Seoul (KR); **Seunghyun Song**, Seoul (KR); **Seongmin Kim**, Seoul (KR); **Yeji Um**, Seoul (KR)

(73) Assignee: **LG ELECTRONICS INC.**, Seoul (KR)

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

(21) Appl. No.: **29/753,489**

(22) Filed: **Sep. 30, 2020**

(30) **Foreign Application Priority Data**

May 27, 2020 (KR) 30-2020-0023396

(51) **LOC (14) Cl.** **15-05**

(52) **U.S. Cl.**
USPC **D32/32**

(58) **Field of Classification Search**
USPC D6/553; D23/244, 262, 265; D32/25, D32/31-33
CPC A47L 9/00; A47L 9/0018; A47L 9/0027; A47L 9/0036; A47L 7/0095; A47L 9/248; A47L 7/00; A47L 7/06; A47L 13/22; A47L 9/02
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,964,190 A * 10/1990 Murata A47L 9/0666 15/364
- D752,301 S * 3/2016 Courtney D32/32
- D814,724 S * 4/2018 Courtney D32/32
- D836,274 S * 12/2018 Nam D32/32
- D836,867 S * 12/2018 Nam D32/32

- D836,868 S * 12/2018 Nam D32/32
- D839,517 S * 1/2019 Nam D32/32
- D848,099 S * 5/2019 Nam D32/32
- D869,802 S * 12/2019 Hribar-Green D32/32
- D874,766 S * 2/2020 Chavana, Jr. D32/33
- D875,338 S * 2/2020 Gale D32/32
- D879,397 S * 3/2020 Kim D32/32
- D879,398 S * 3/2020 Burgess D32/32
- D880,090 S * 3/2020 Tokoi D32/32
- D880,091 S * 3/2020 Tokoi D32/33
- D882,196 S * 4/2020 Lee D32/33
- D901,113 S * 11/2020 Song D32/32
- D912,348 S * 3/2021 Choi D32/32

(Continued)

FOREIGN PATENT DOCUMENTS

WO D211213-001 * 5/2022

Primary Examiner — Kevin K Rudzinski

Assistant Examiner — Richard E Yenchesky

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

(57) **CLAIM**

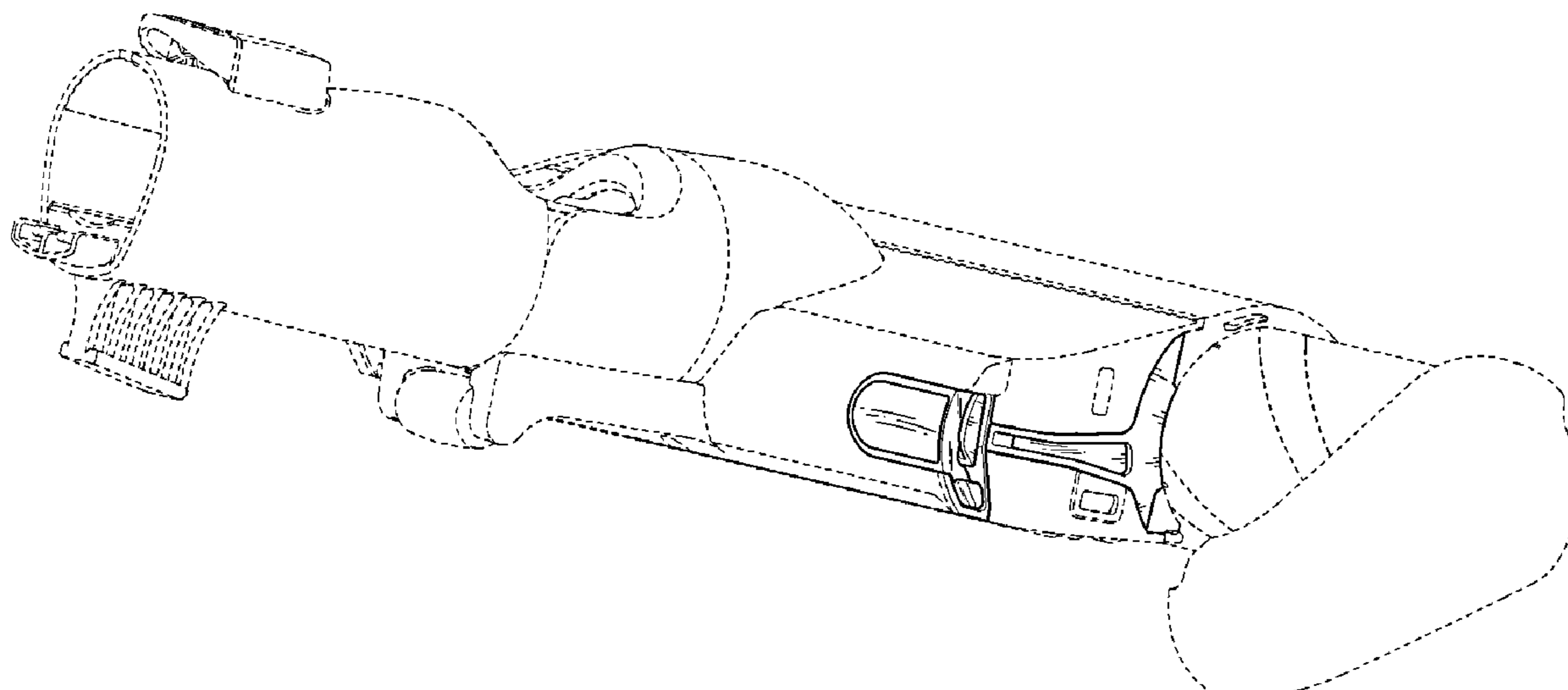
The ornamental design for a nozzle for vacuum cleaner, as shown and described.

DESCRIPTION

FIG. 1 is a front, right side, perspective view of a nozzle for vacuum cleaner showing our new design;
 FIG. 2 is rear perspective view thereof;
 FIG. 3 is rear perspective view at a different angle thereof;
 FIG. 4 is a front view thereof;
 FIG. 5 is a rear view thereof;
 FIG. 6 is a left side view thereof;
 FIG. 7 is a right side view thereof;
 FIG. 8 is a top view thereof; and,
 FIG. 9 is a bottom view.

The broken lines indicate unclaimed portion of the article that form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D922,015	S *	6/2021	Polden	.....	D32/32
D927,809	S *	8/2021	Kim	.....	D32/32
D935,121	S *	11/2021	Luo	.....	D32/32
D950,175	S *	4/2022	Dodgson	.....	D32/32
11,357,381	B2 *	6/2022	Ko	.....	A47L 13/22
D961,872	S *	8/2022	Park	.....	D32/32
D963,271	S *	9/2022	Oh	.....	D32/33
2005/0115014	A1 *	6/2005	Worwag	.....	A47L 9/2836
					15/324
2012/0079678	A1 *	4/2012	Spinelli	.....	A47L 9/02
					15/383
2020/0029761	A1 *	1/2020	Knight Adams	.....	A47L 9/24
2020/0245831	A1 *	8/2020	Peng	.....	A47L 9/242
2021/0161340	A1 *	6/2021	Hwang	.....	A47L 9/248
2022/0125257	A1 *	4/2022	Conrad	.....	A47L 5/32
2022/0273150	A1 *	9/2022	Kwon	.....	A47L 9/2831
2022/0400914	A1 *	12/2022	Hwang	.....	A47L 9/0455
2022/0400916	A1 *	12/2022	Hwang	.....	A47L 9/0411

* cited by examiner

FIG. 1

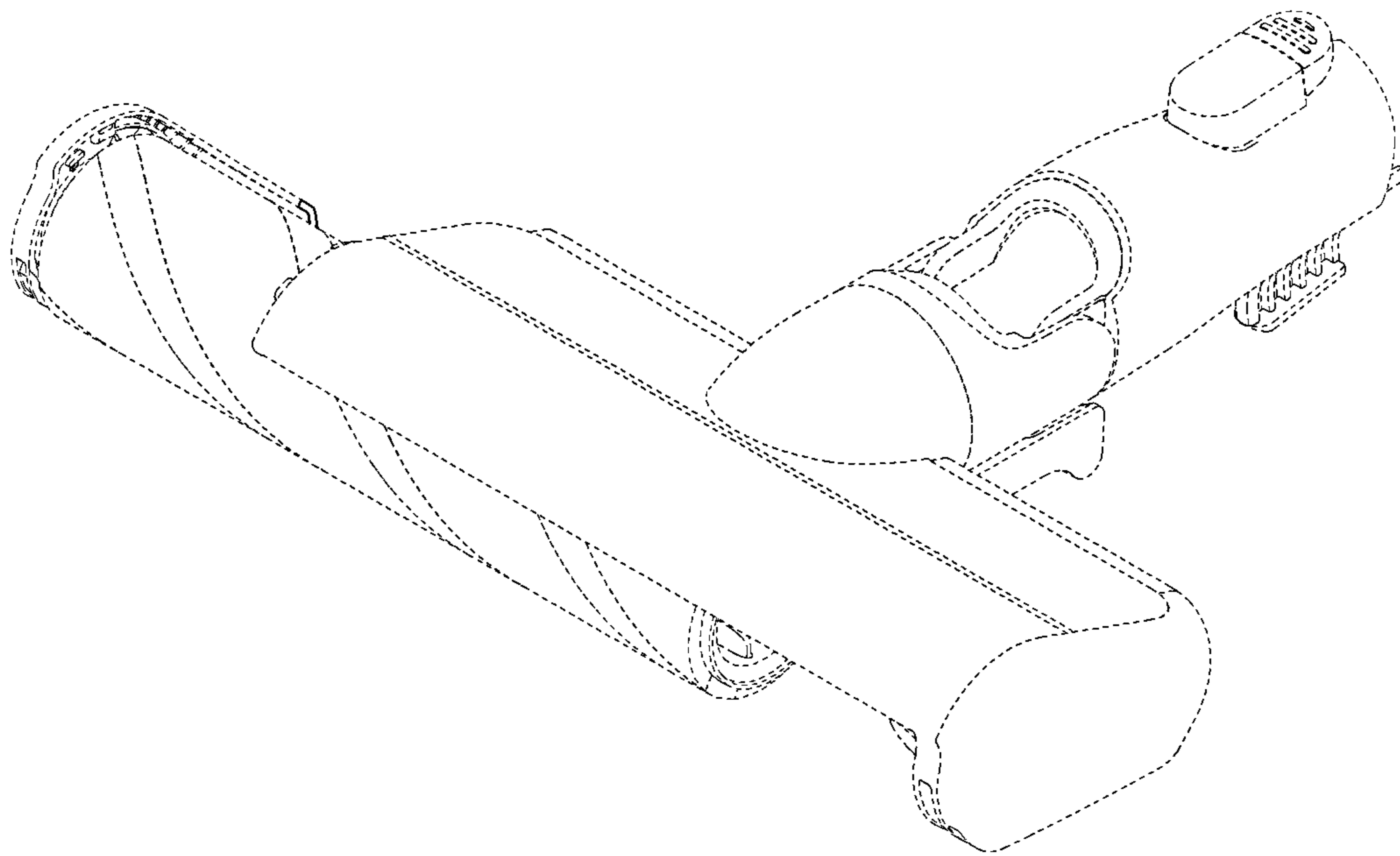


FIG. 2

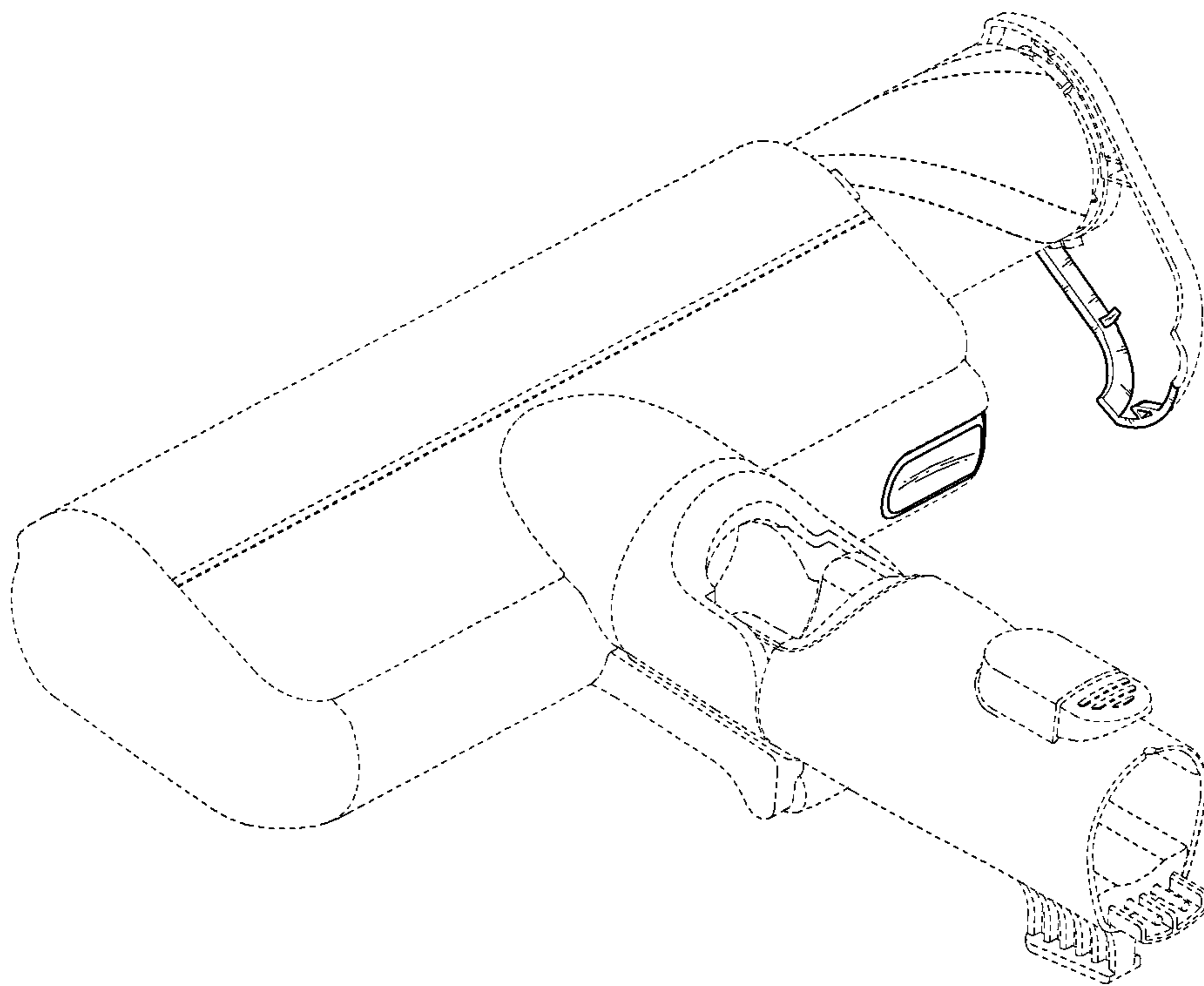


FIG. 3

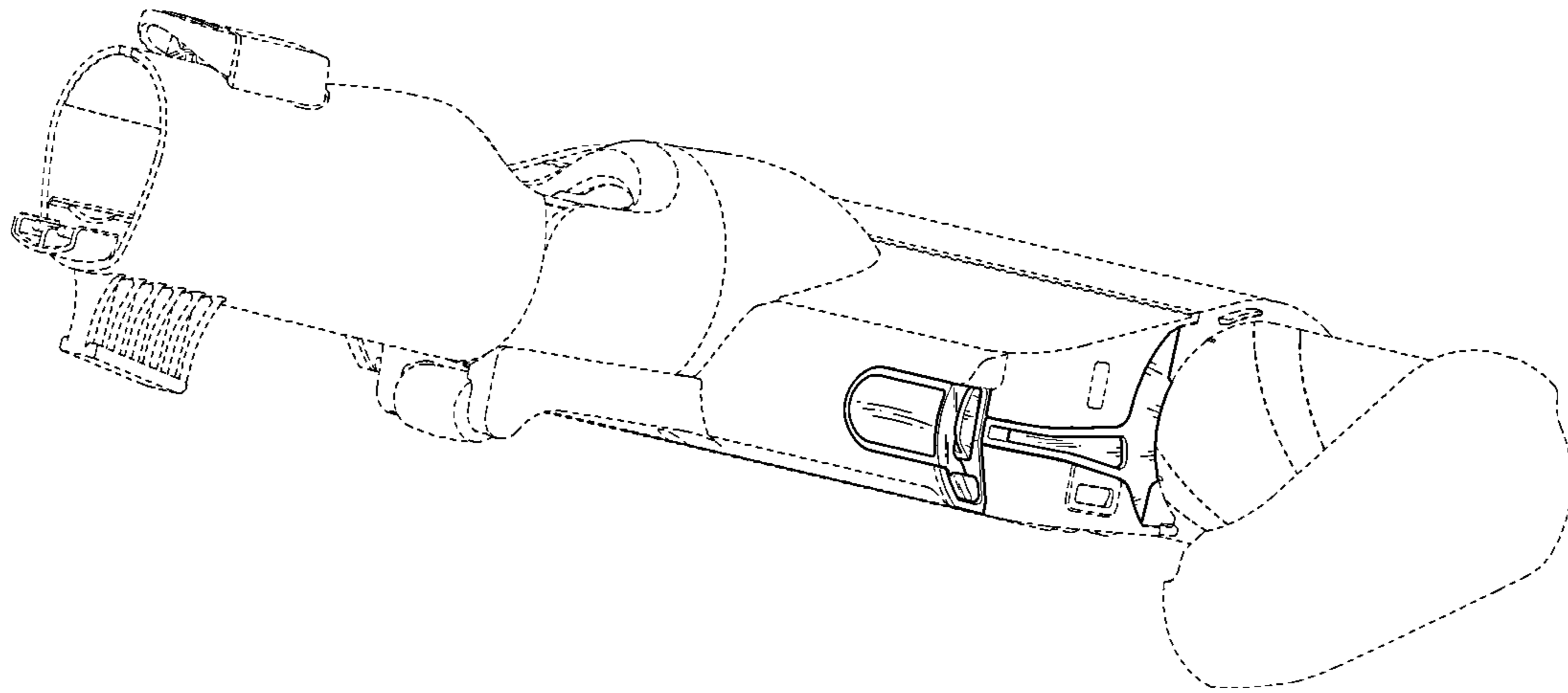


FIG. 4

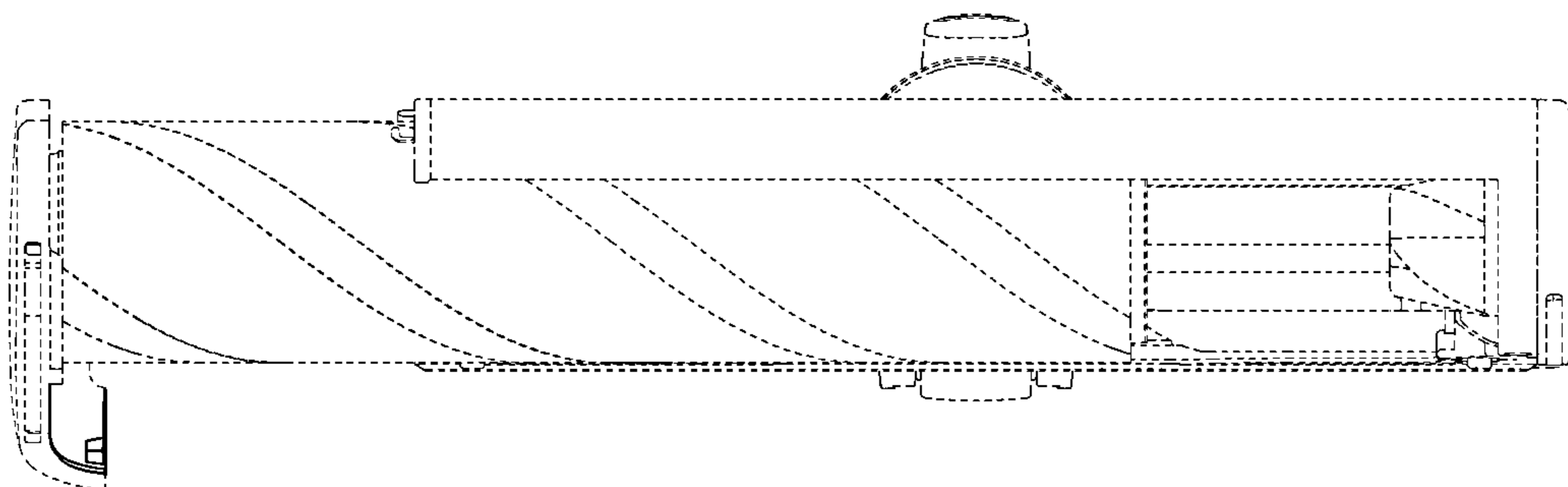


FIG. 5

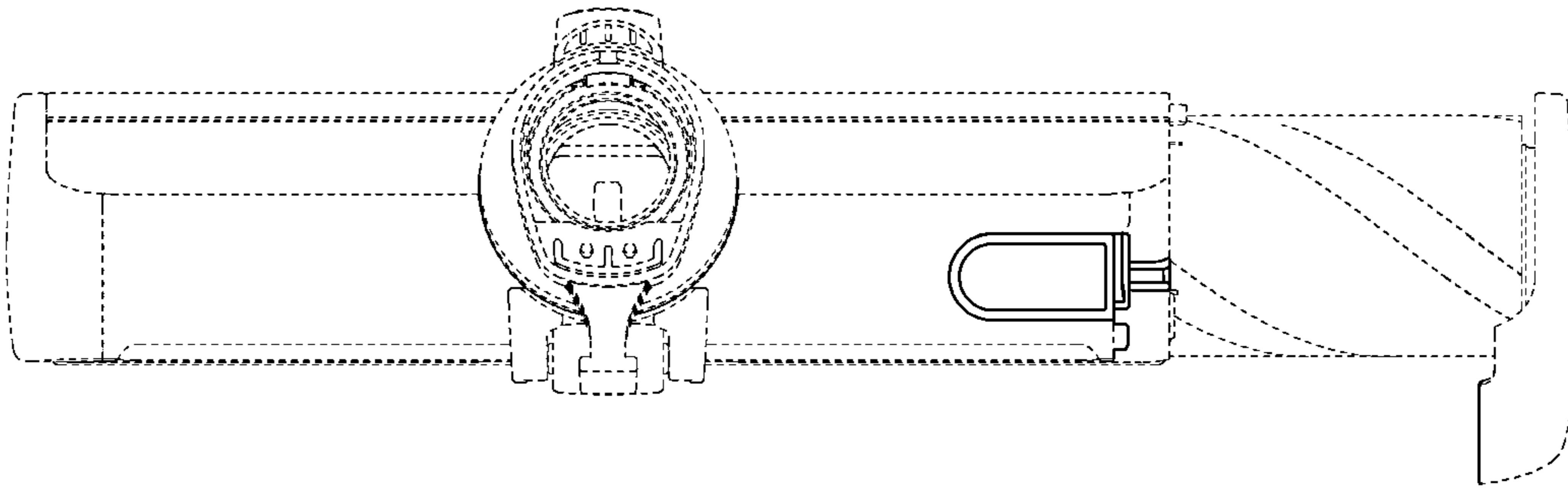


FIG. 6

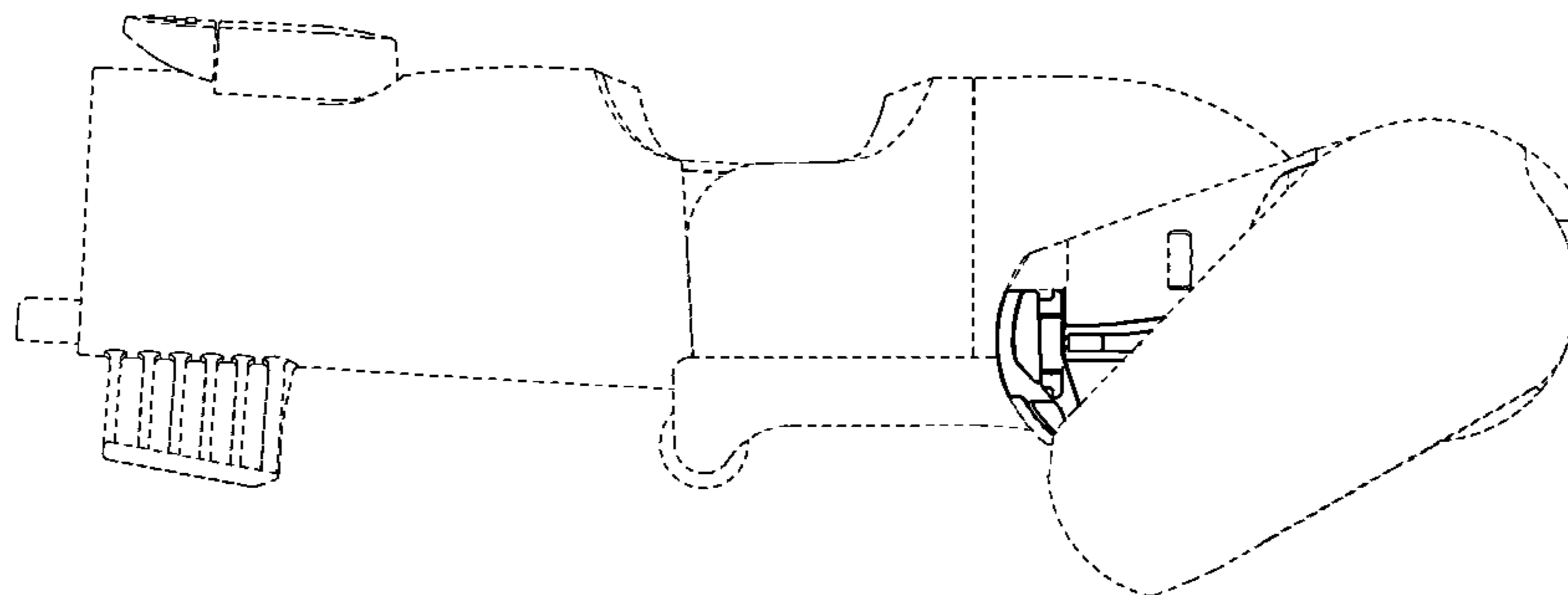


FIG. 7

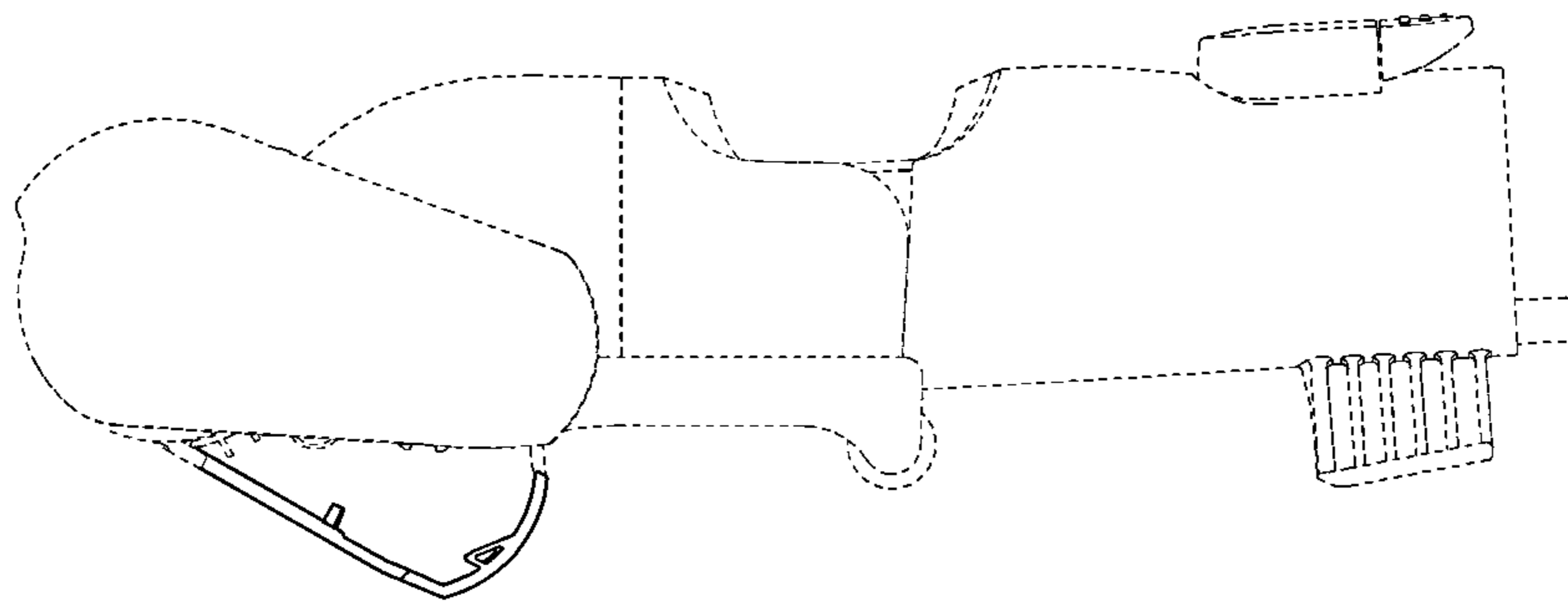


FIG. 8

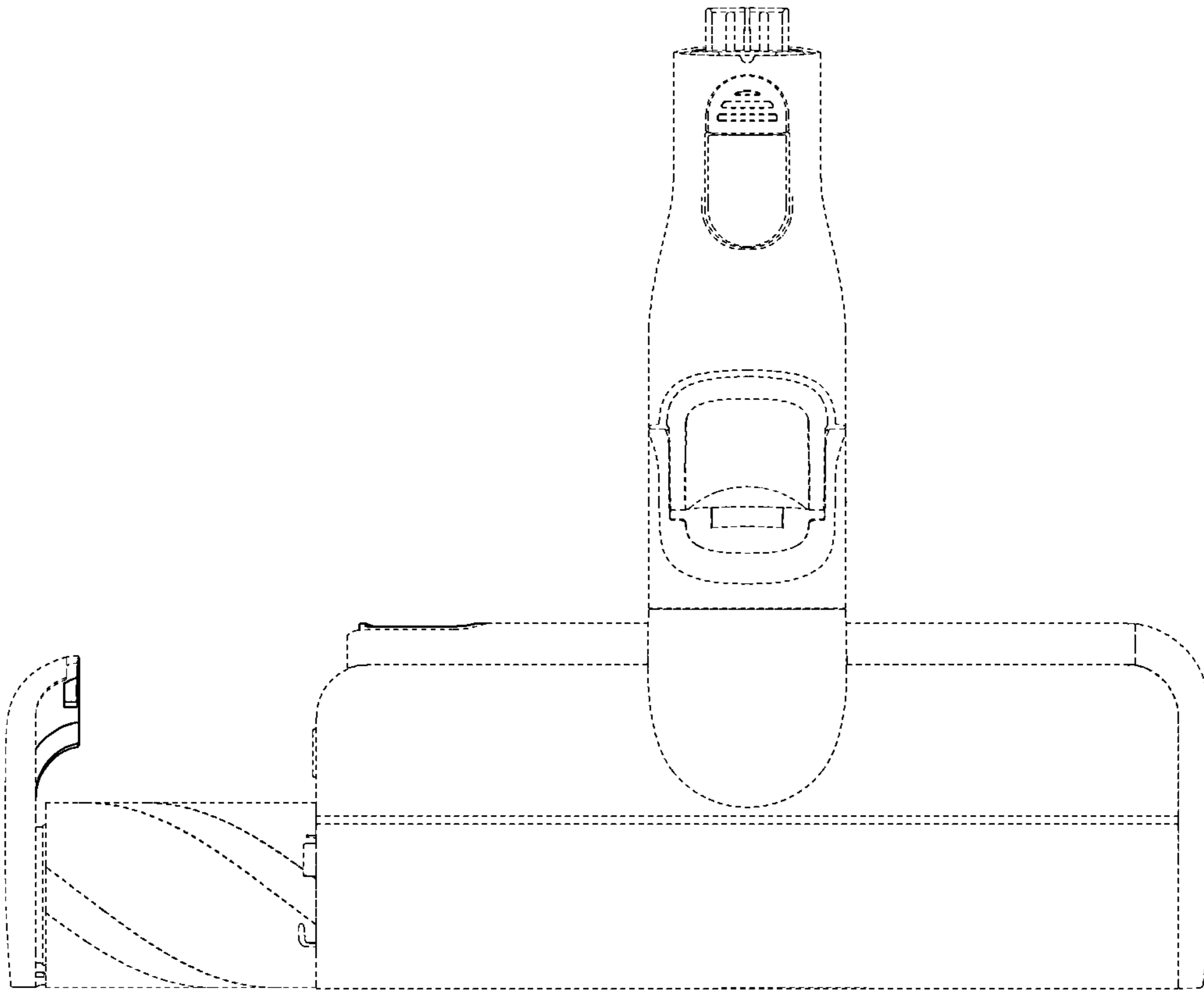


FIG. 9

