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

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(54) **VACUUM CLEANER FOOT, WAND, AND HANDLE**

(71) Applicant: **BISSELL Inc.**, Grand Rapids, MI (US)

(72) Inventors: **Mackenzie L. Knapp**, Saranac, MI (US); **Jing Yang**, Zhongshan (CN)

(73) Assignee: **BISSELL Inc.**, Grand Rapids, MI (US)

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(52) **U.S. Cl.**  
USPC ..... **D32/31**

(58) **Field of Classification Search**  
USPC ..... D32/17-24, 31-34, 38, 39  
CPC ..... A47L 9/02; A47L 9/04; A47L 9/06; A47L 9/0461; A47L 9/325; A47L 5/362; A47L 5/365; A47L 5/30; A47L 5/36; A47L 5/28; A47L 5/32; A47L 11/4044; A47L 11/302; A47L 13/26; A47L 13/40; A47L 13/36; A47L 13/38; A47L 11/33; A47L 11/32; A47L 7/02; A47L 11/34; A47L 11/4025

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D280,033 S *	8/1985	Miyamoto	.....	D32/18
D348,548 S *	7/1994	Pino	.....	D32/18
D383,578 S *	9/1997	Ho	.....	D32/22
D398,096 S *	9/1998	Gildersleeve	.....	D32/22
D419,731 S *	1/2000	Bates	.....	D32/22
6,129,775 A *	10/2000	Conrad	.....	A47L 9/1608 55/337
D436,699 S *	1/2001	Makihara	.....	D32/22
6,361,576 B1 *	3/2002	Andriola	.....	B01D 45/16 55/459.1

D463,077 S *	9/2002	Kim	.....	D32/21
6,679,930 B1 *	1/2004	An	.....	A47L 9/1608 55/337
D498,888 S *	11/2004	Archer	.....	D32/25
D527,852 S *	9/2006	Tsai	.....	D32/21
D549,910 S *	8/2007	Bouhuys	.....	D32/38
D561,415 S *	2/2008	Tavano	.....	D32/34

(Continued)

*Primary Examiner* — Michelle E. Wilson

*Assistant Examiner* — Richard E. Yenchesky

(74) *Attorney, Agent, or Firm* — Warner Norcross + Judd LLP

(57) **CLAIM**

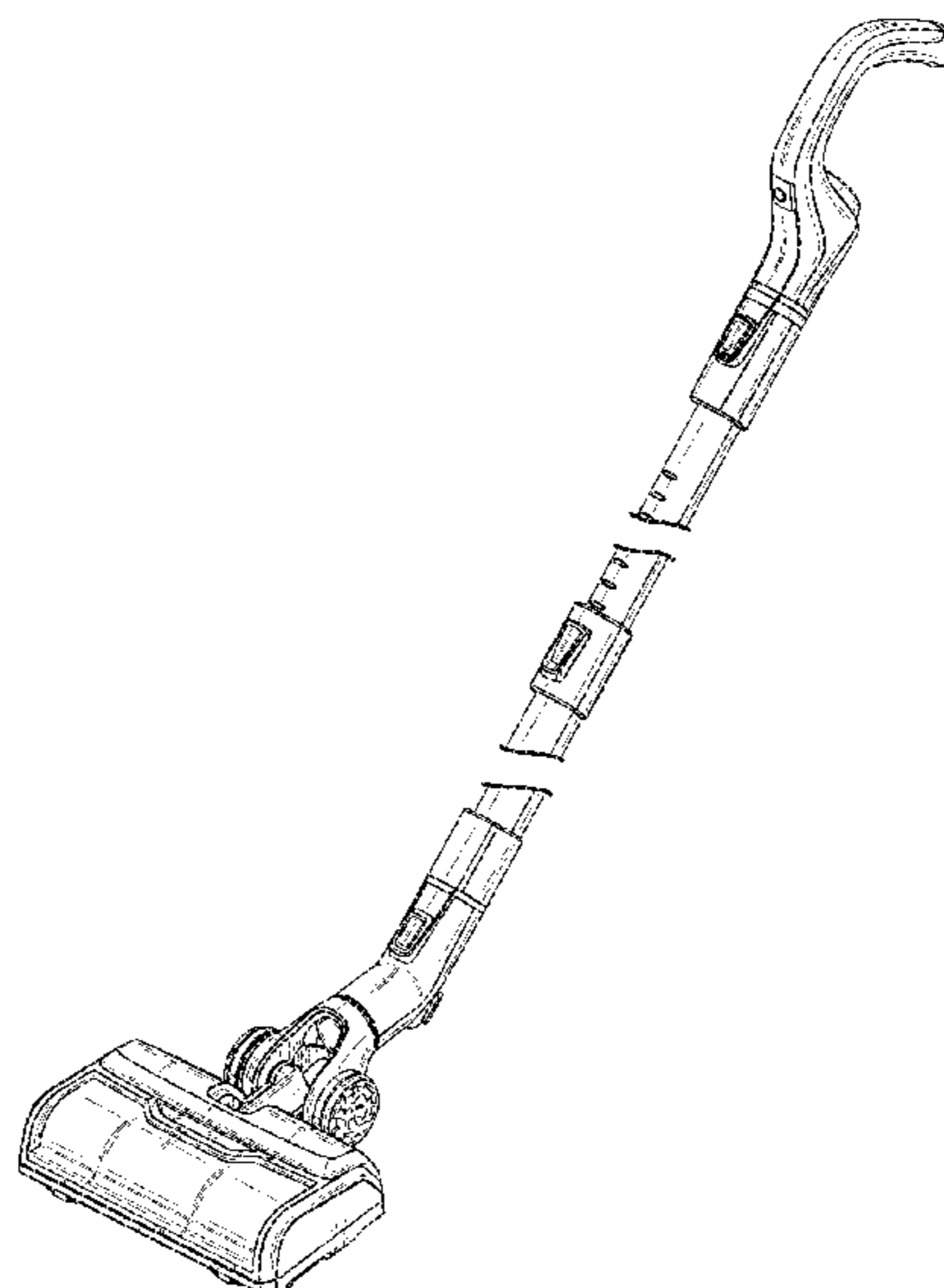
The ornamental design for a vacuum cleaner foot, wand, and handle, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a vacuum cleaner foot, wand, and handle showing our new design;  
 FIG. 2 is a front view thereof;  
 FIG. 3 is a rear view thereof;  
 FIG. 4 is a right side view thereof, the left side being a mirror image;  
 FIG. 5 is a top view thereof;  
 FIG. 6 is a close-up front perspective view of the vacuum cleaner foot and a portion of the wand;  
 FIG. 7 is a front view thereof;  
 FIG. 8 is a rear view thereof;  
 FIG. 9 is a right side view thereof, the left side being a mirror image; and,  
 FIG. 10 is a top view thereof.

The details shown in broken lines form no part of the claimed design. The break lines indicate that the claim is directed only to the design for the portions of the vacuum cleaner foot, wand, and handle that are shown, and the appearance of any portion of the claimed design between the break lines forms no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D635,728 S \* 4/2011 Fjellman ..... D32/22  
 D653,414 S \* 1/2012 Genoa ..... D32/38  
 D670,466 S \* 11/2012 Cho ..... D32/22  
 D682,496 S \* 5/2013 Bassett ..... D32/22  
 D703,401 S \* 4/2014 Hill ..... D32/31  
 D719,309 S \* 12/2014 Ashbee ..... D32/33  
 D719,310 S \* 12/2014 Ashbee ..... D32/33  
 D789,006 S \* 6/2017 Ricica ..... D32/32  
 D794,268 S \* 8/2017 Minamide ..... D32/22  
 D796,129 S \* 8/2017 Jang ..... D32/22  
 D798,009 S \* 9/2017 Salagnac ..... D32/22  
 D800,980 S \* 10/2017 Carter ..... D32/21  
 D824,616 S \* 7/2018 Ward ..... D32/22  
 D833,092 S \* 11/2018 Samtani ..... D32/22  
 D836,865 S \* 12/2018 Niedzwecki ..... D32/31  
 D836,867 S \* 12/2018 Nam ..... D32/32  
 D838,067 S \* 1/2019 Irfan ..... B04C 5/185  
 D850,038 S \* 5/2019 Gammack ..... D32/22  
 D855,271 S \* 7/2019 Liang ..... D32/50  
 D858,016 S \* 8/2019 Casini ..... D32/15  
 D860,562 S \* 9/2019 Rasmussen ..... D32/34

D861,268 S \* 9/2019 Meyer ..... D32/22  
 D869,793 S \* 12/2019 Casini ..... D32/15  
 D871,000 S \* 12/2019 Johnson ..... D32/32  
 D871,695 S \* 12/2019 Niedzwecki ..... D32/22  
 D872,396 S \* 1/2020 Miyawaki ..... D32/22  
 D877,434 S \* 3/2020 Burgess ..... D32/31  
 D887,657 S \* 6/2020 Palladino ..... D32/22  
 D897,616 S \* 9/2020 Chen ..... D32/22  
 2001/0005986 A1 \* 7/2001 Matsubara ..... B04C 5/103  
 55/459.1  
 2004/0187449 A1 \* 9/2004 Witter ..... B04C 9/00  
 55/337  
 2011/0203238 A1 \* 8/2011 Witter ..... B01D 46/0093  
 55/356  
 2012/0180662 A1 \* 7/2012 Missalla ..... B04C 5/13  
 95/271  
 2014/0250619 A1 \* 9/2014 Policicchio ..... A47L 13/16  
 15/231  
 2014/0250625 A1 \* 9/2014 Huang ..... B01D 45/16  
 15/353  
 2018/0339257 A1 \* 11/2018 Cheng ..... B01D 46/0045  
 2018/0345200 A1 \* 12/2018 Cheng ..... B01D 50/002  
 2019/0133393 A1 \* 5/2019 Cheng ..... A47L 5/34  
 2019/0336904 A1 \* 11/2019 Choi ..... B05B 15/52

\* cited by examiner

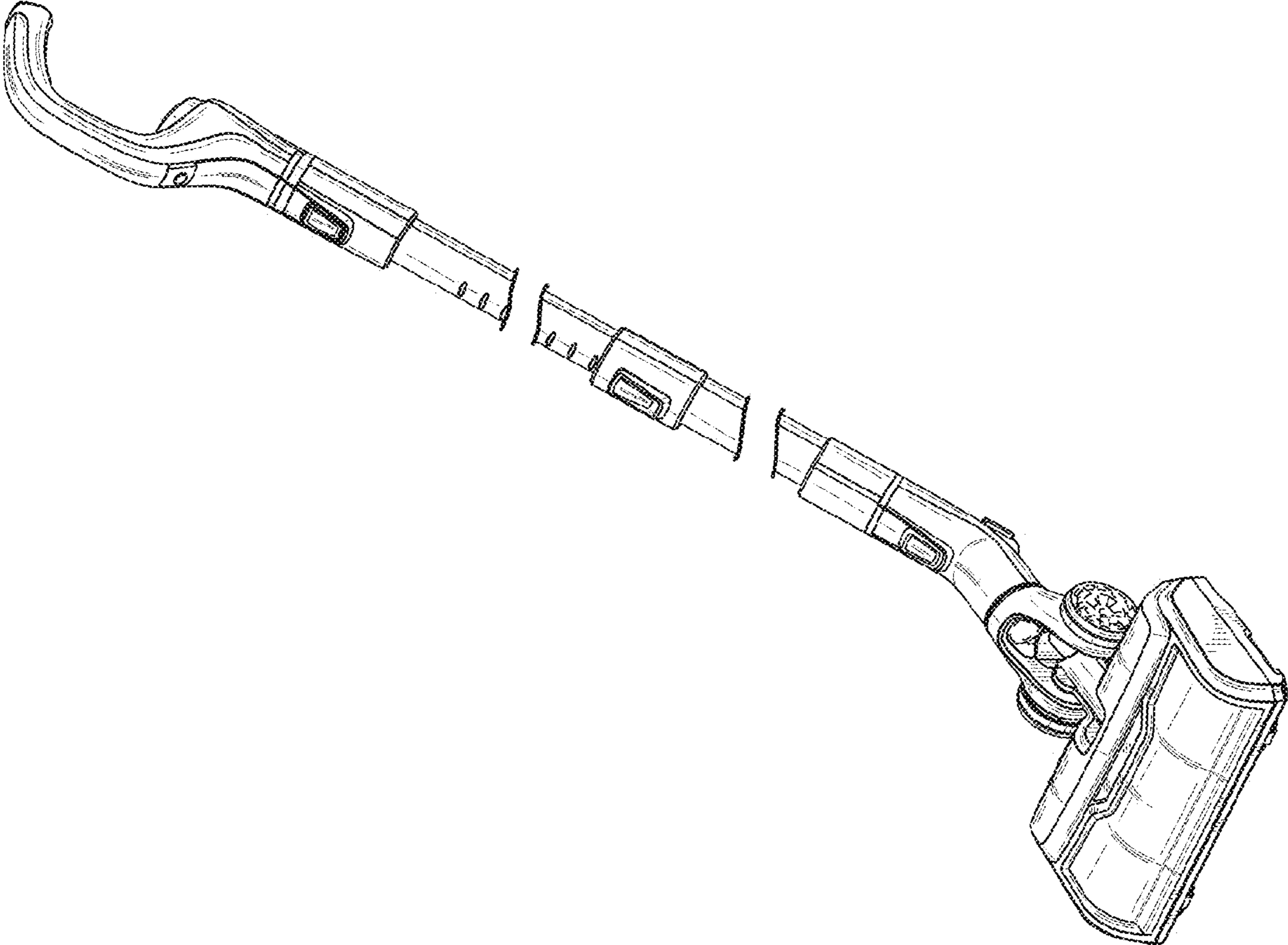


FIG. 1

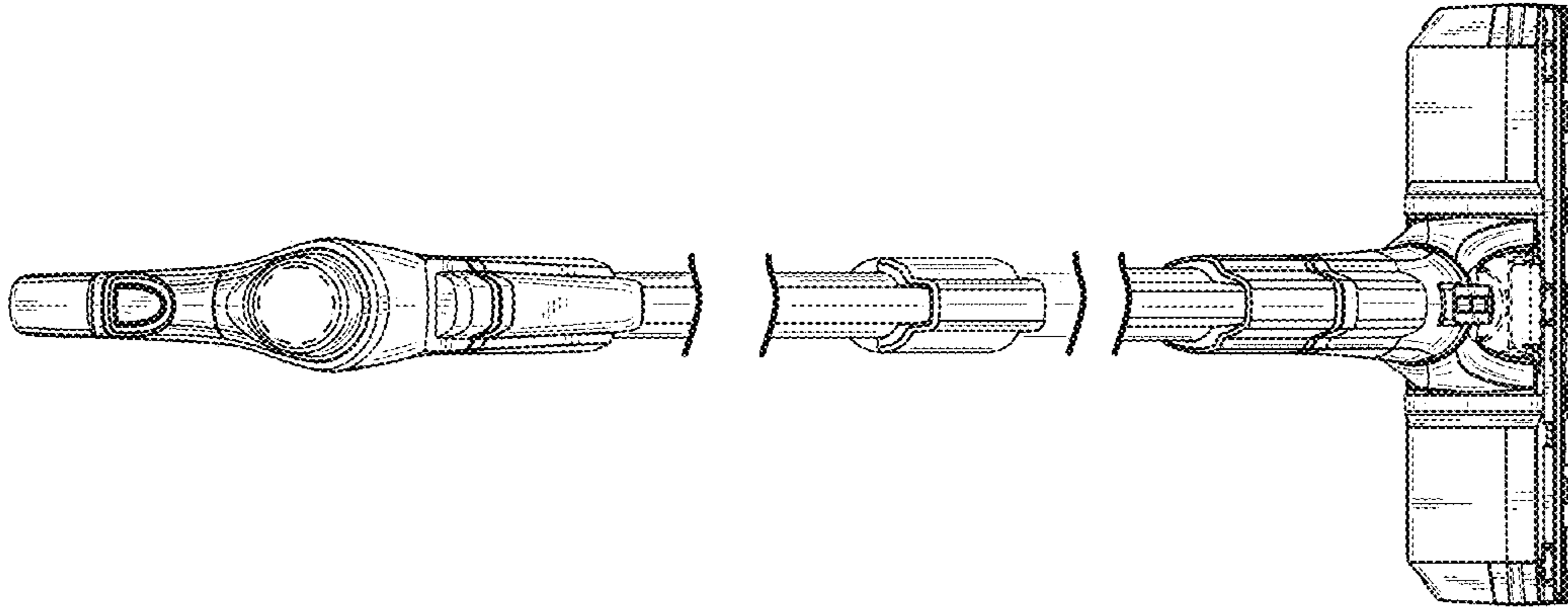


FIG. 2

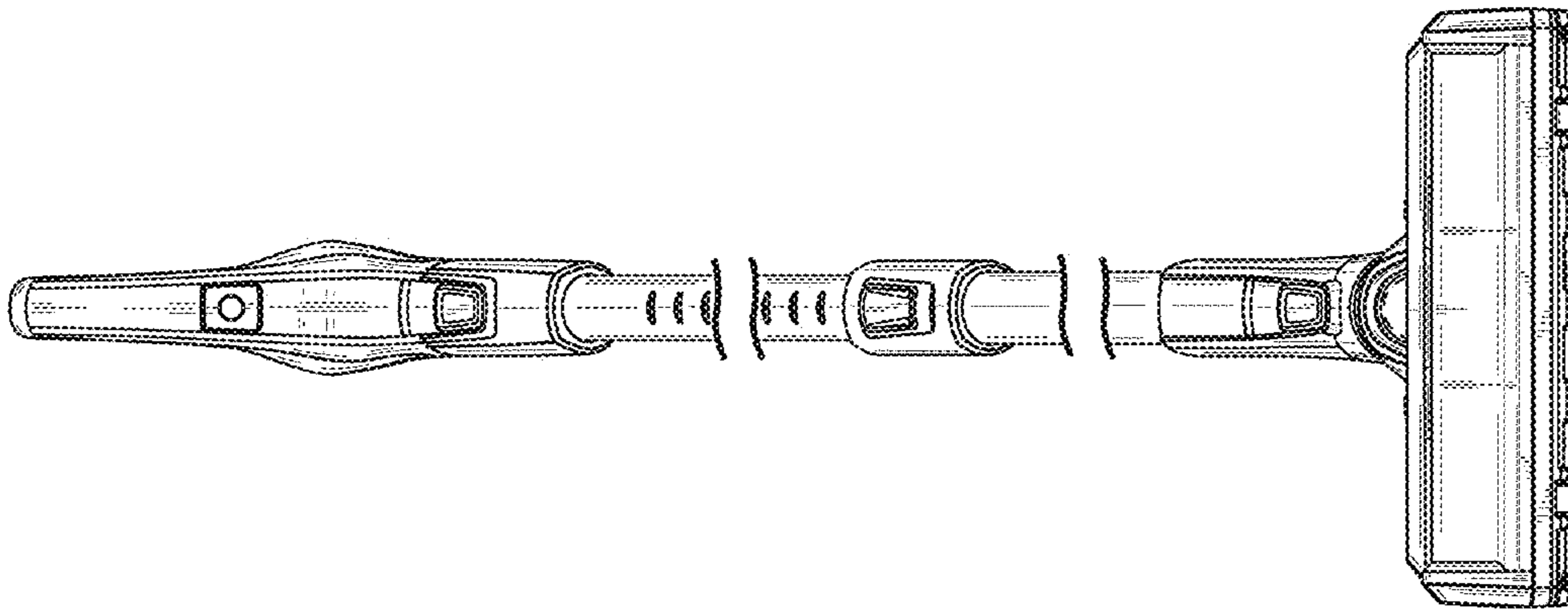


FIG. 3

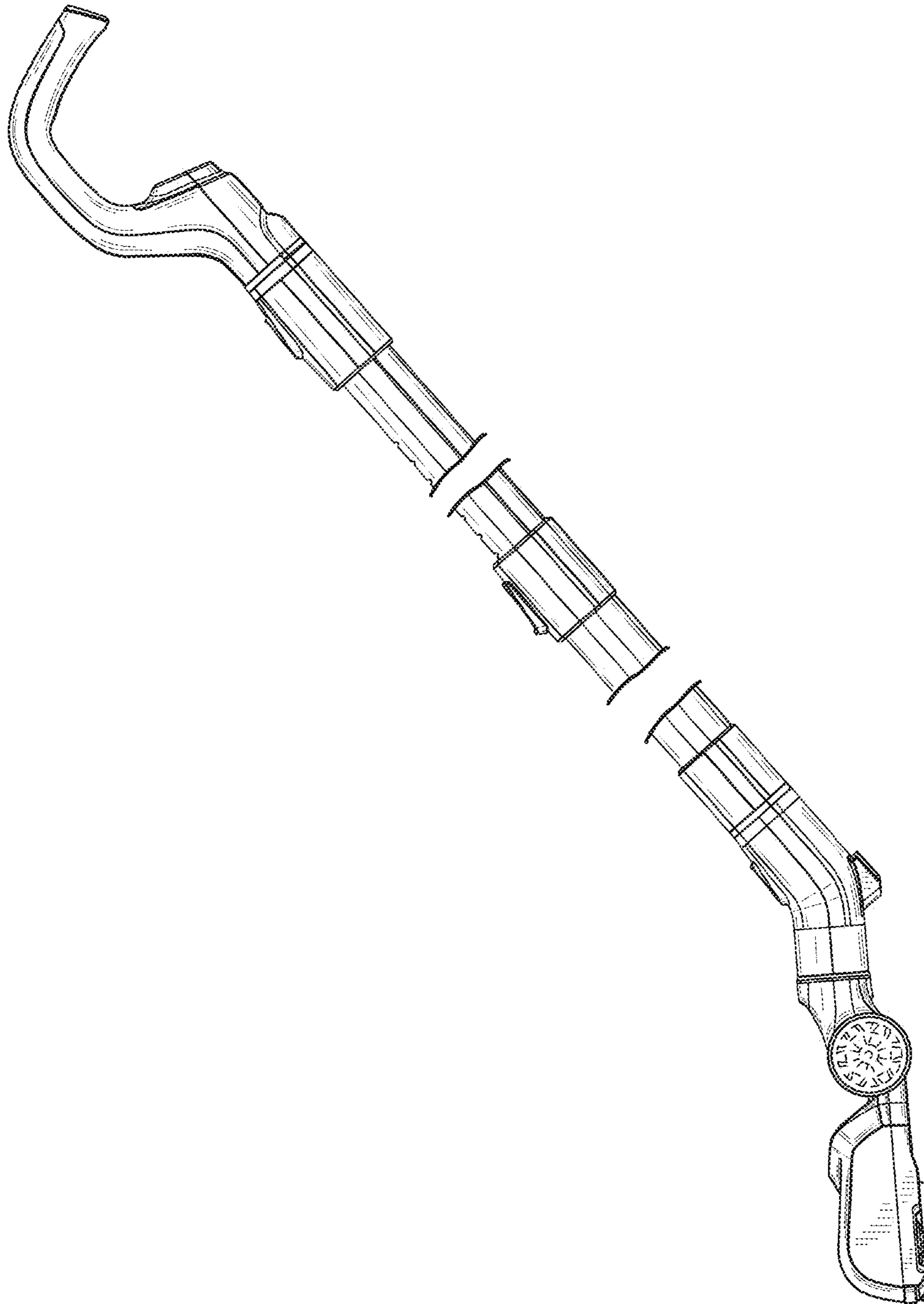


FIG. 4

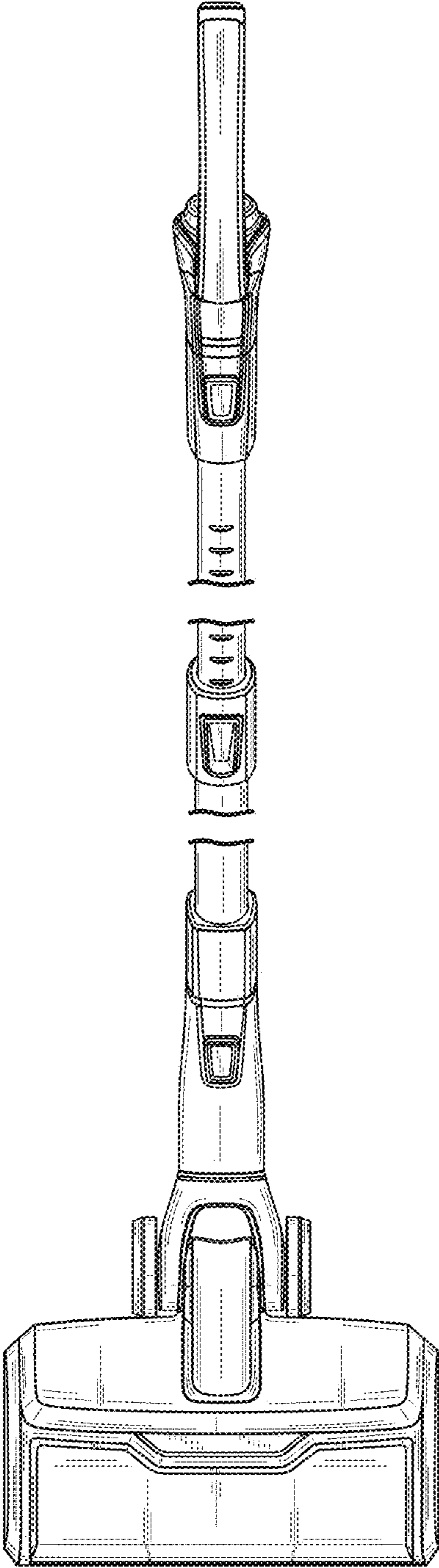


FIG. 5

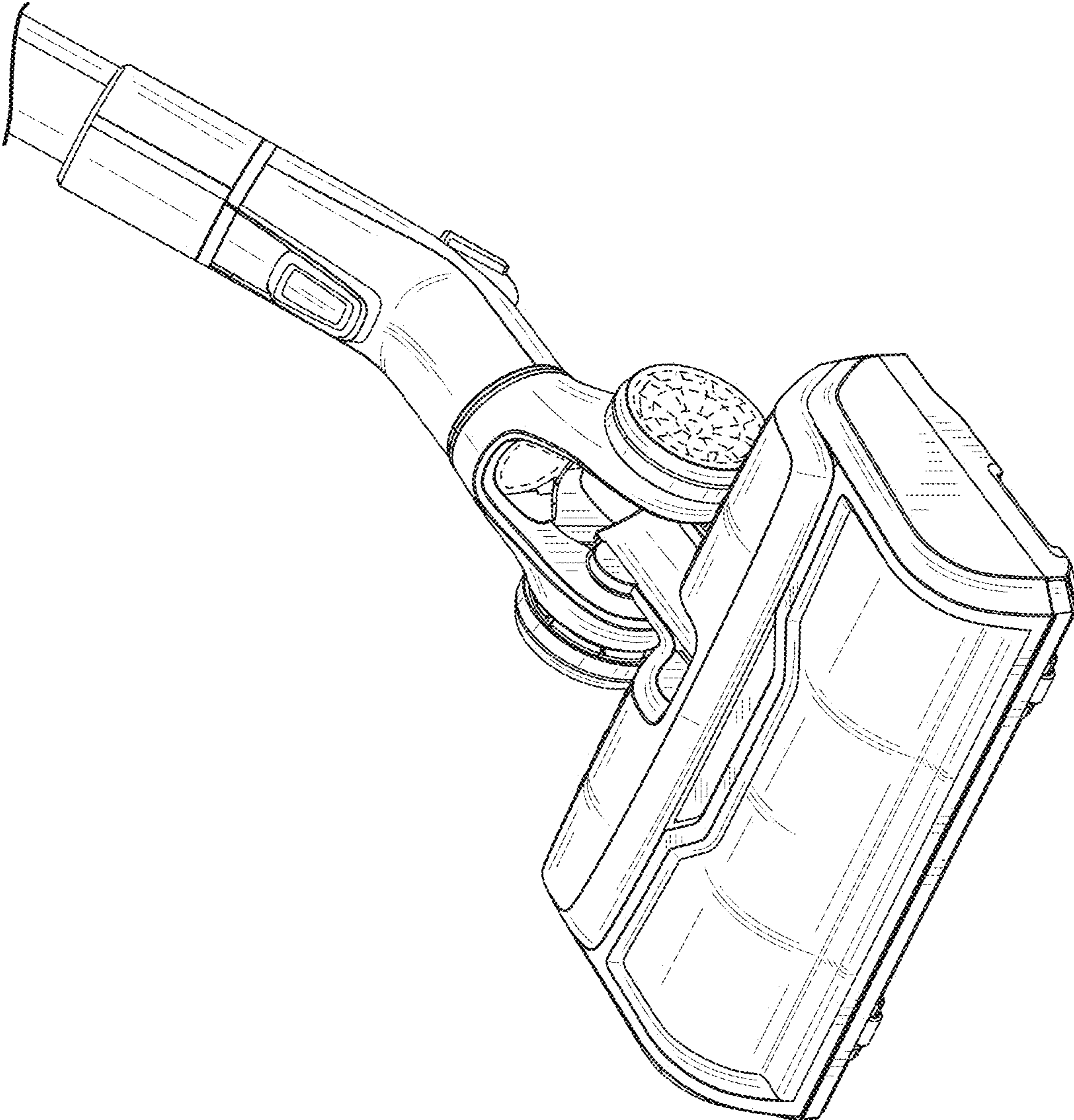


FIG. 6

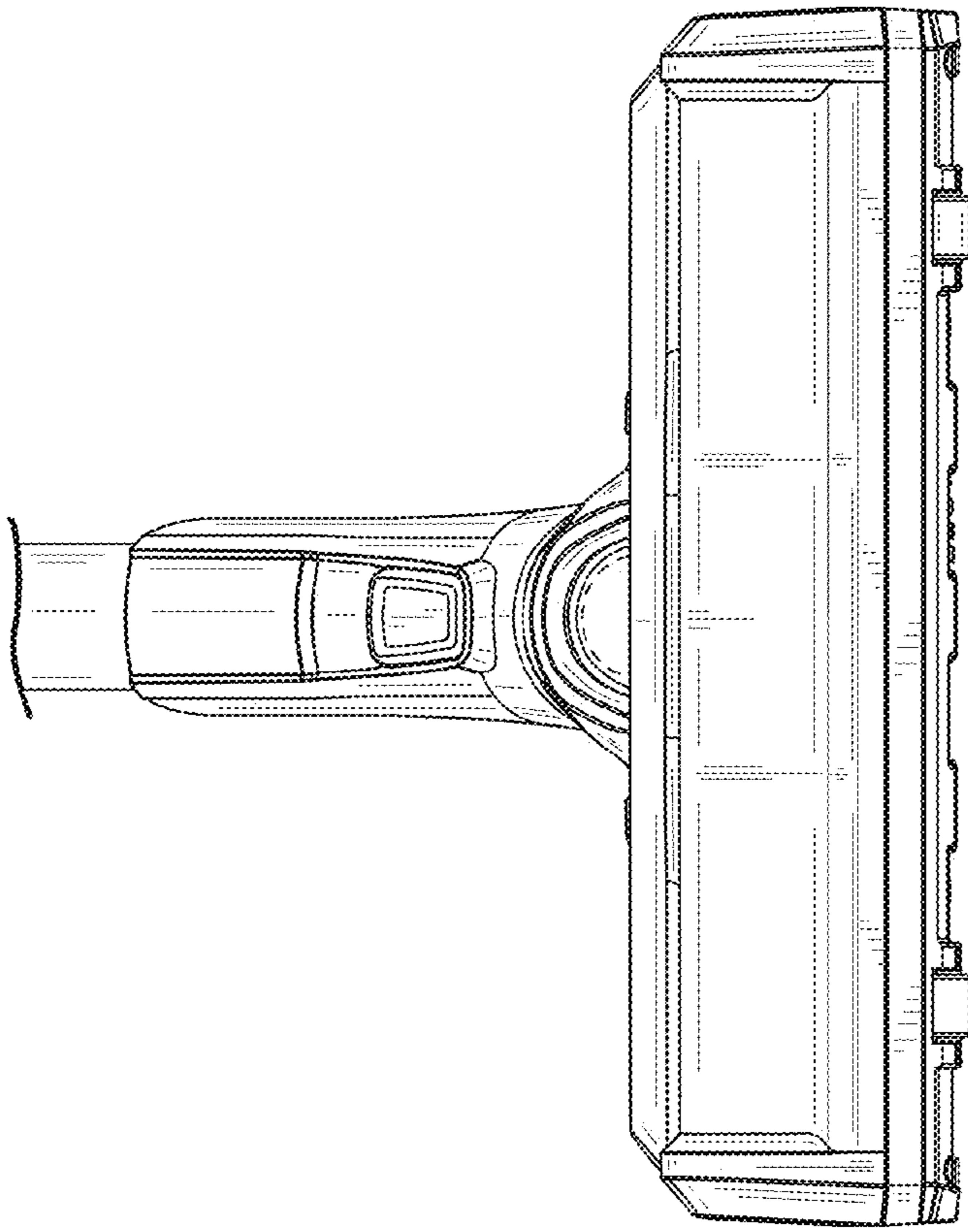


FIG. 7

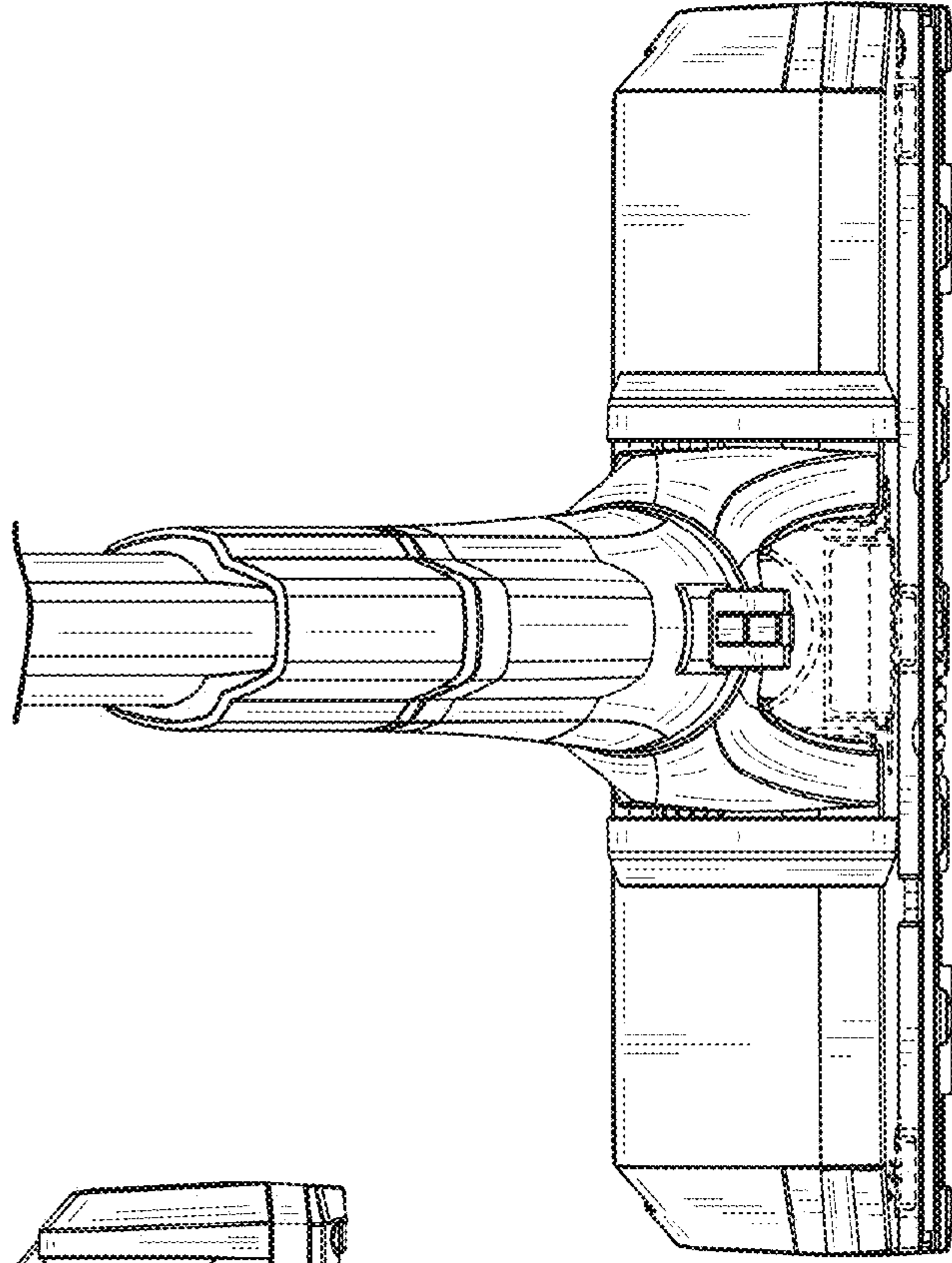


FIG. 8



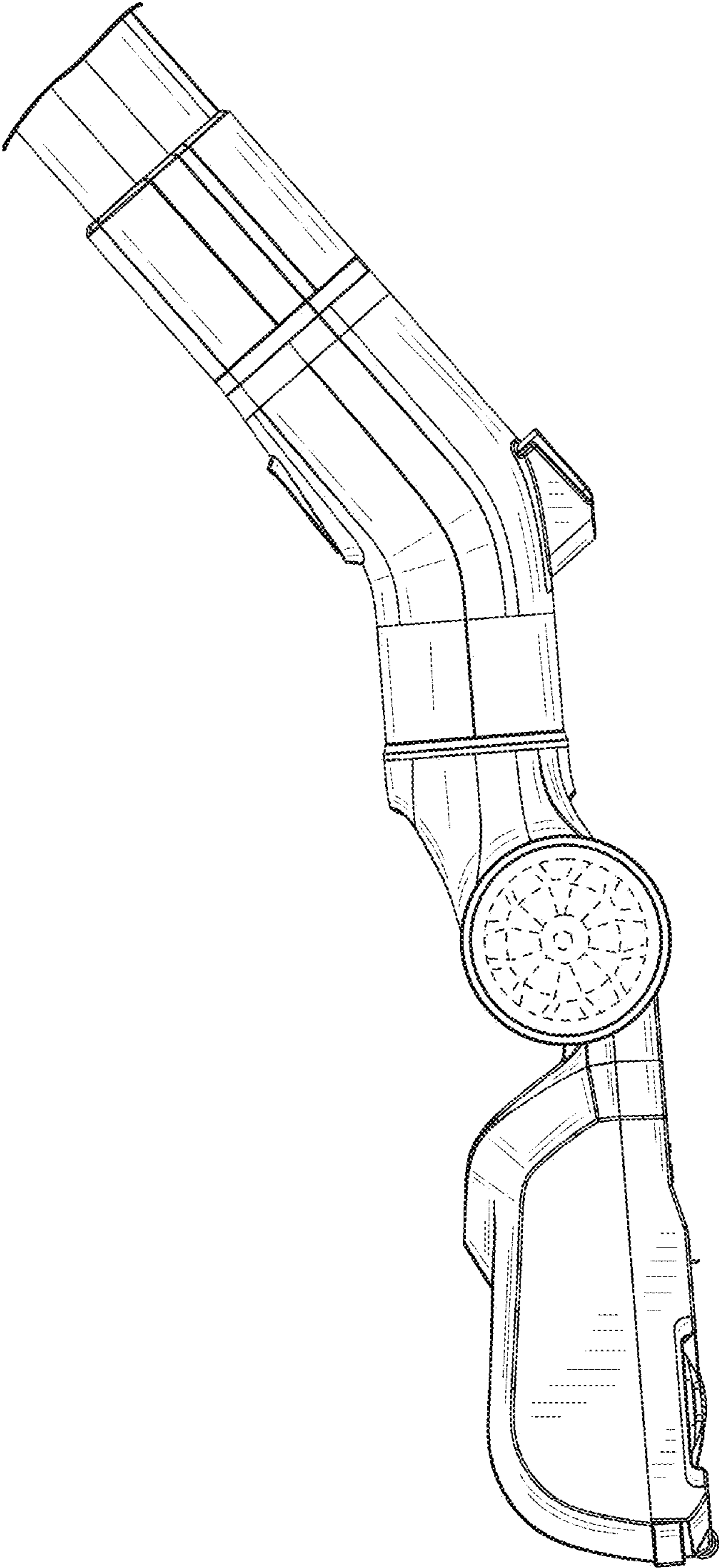


FIG. 9

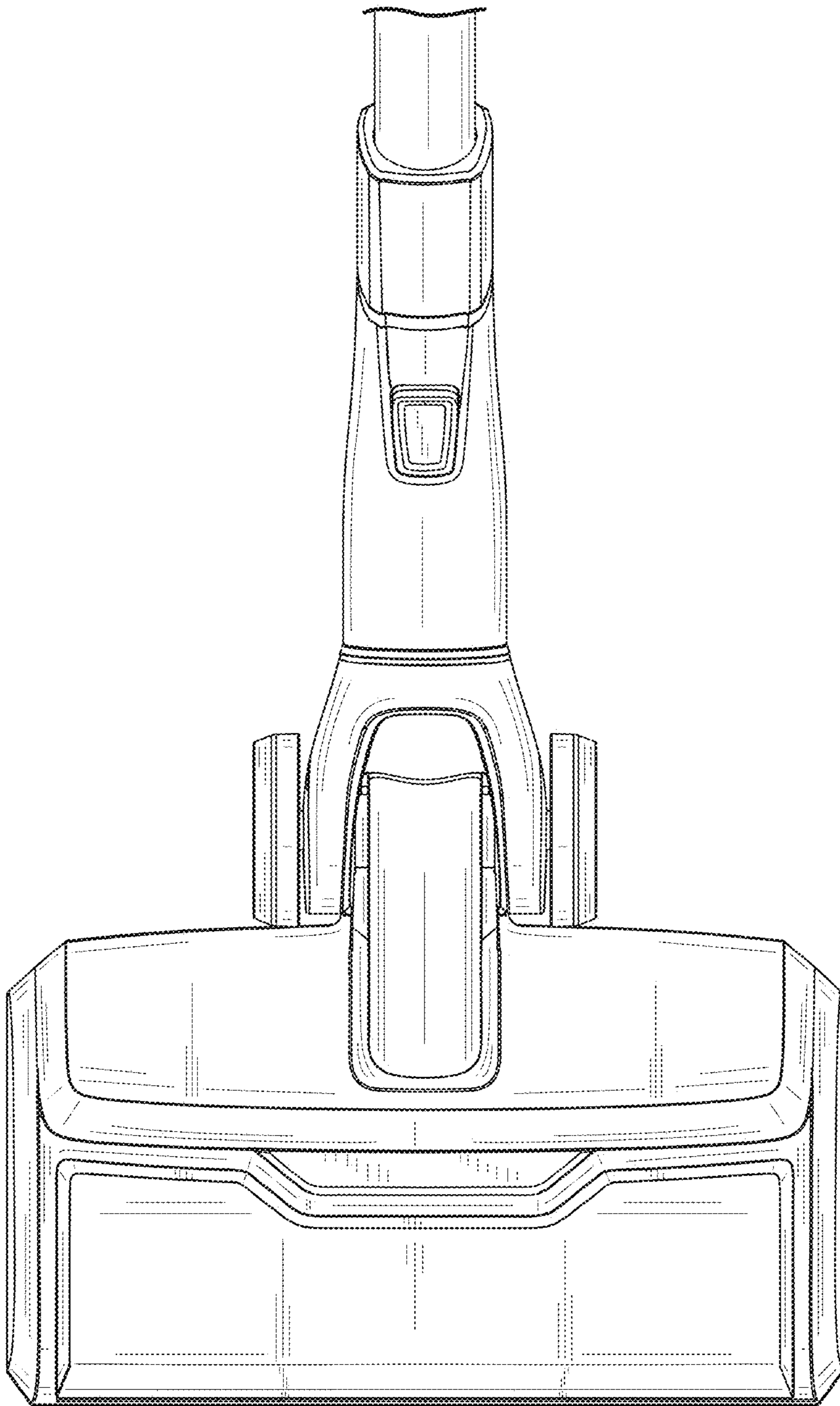


FIG. 10