



US00D912344S

(12) **United States Design Patent** (10) **Patent No.:** **US D912,344 S**
Choi et al. (45) **Date of Patent:** **** Mar. 2, 2021**

(54) **CLEANER**

(71) Applicant: **Samsung Electronics Co., Ltd.**,
Suwon-si (KR)
(72) Inventors: **Jaewon Choi**, Seoul (KR); **Hwandong Lee**, Seoul (KR); **Hyoungsub Choi**,
Goyang-si (KR); **Yeonsu Kim**, Seoul
(KR); **Donghyuk Uim**, Seoul (KR)
(73) Assignee: **SAMSUNG ELECTRONICS CO., LTD.**, Gyeonggi-do (KR)

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

(21) Appl. No.: **29/678,331**

(22) Filed: **Jan. 28, 2019**

(30) **Foreign Application Priority Data**

Aug. 29, 2018 (KR) 30-2018-0040341

(51) **LOC (13) Cl.** **15-05**

(52) **U.S. Cl.**
USPC **D32/22; D32/21**

(58) **Field of Classification Search**
USPC D32/15, 17, 18, 21, 22, 23, 24, 31;
D21/526

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D775,772 S * 1/2017 Lee D32/31
D800,980 S * 10/2017 Carter D32/21

(Continued)

FOREIGN PATENT DOCUMENTS

CN 303739482 7/2016
CN 303863321 9/2016

(Continued)

OTHER PUBLICATIONS

Jet Stick Vacuum, available in Samsung.com, announced Year 2020 [online], [site visited Oct. 30, 2020], Available from the internet URL: <https://www.samsung.com/us/home-appliances/vacuums/jet-stick/> (Year: 2020).*

(Continued)

Primary Examiner — Dana K Weiland

Assistant Examiner — Jennylou M Binas

(74) *Attorney, Agent, or Firm* — Cantor Colburn LLP

(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a front perspective view of a cleaner, showing our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left-side view thereof;

FIG. 5 is a right-side view thereof;

FIG. 6 is a top view thereof;

FIG. 7 is a bottom view thereof;

FIG. 8 is a rear perspective view thereof;

FIG. 9 is another rear perspective view thereof;

FIG. 10 is an enlarged view of the portion, '10' in FIG. 1;

FIG. 11 is an enlarged view of the portion, '11' in FIG. 1;

FIG. 12 is an enlarged view of the portion, '12' in FIG. 2;

FIG. 13 is an enlarged view of the portion, '13' in FIG. 5;

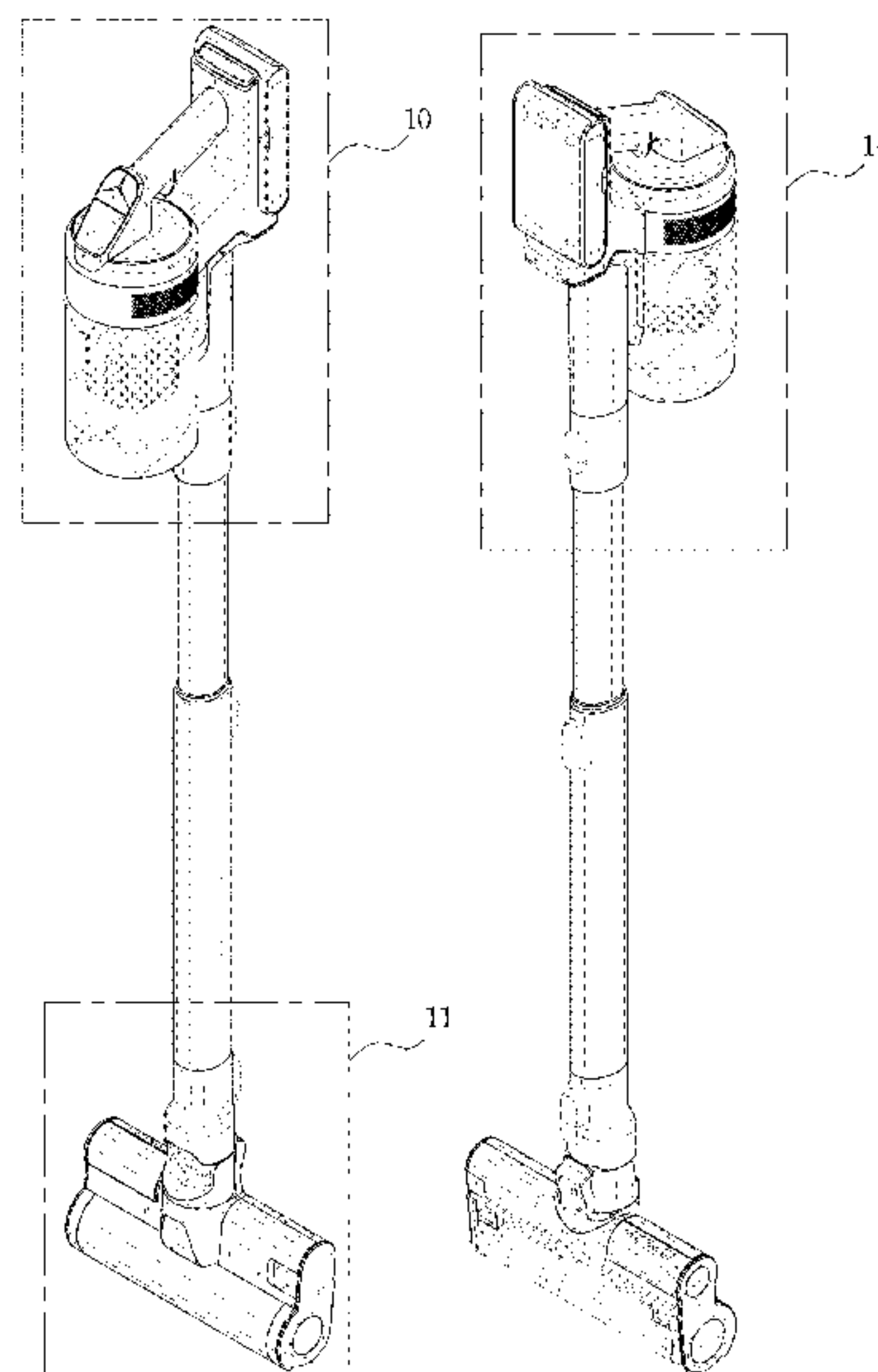
FIG. 14 is an enlarged view of the portion, '14' in FIG. 8;

and,

FIG. 15 is an enlarged view of the portion, '15' in FIG. 9.

The dot-dash broken lines encircling enlargement portions of the design of the cleaner form no part of the claimed design. The broken lines illustrating portions of the cleaner form no part of the claimed design.

1 Claim, 14 Drawing Sheets



(58) **Field of Classification Search**

CPC A47L 2201/024; A47L 5/24; A47L 5/30;
A47L 5/36; A47L 5/225; A47L 5/365;
A47L 9/0036; A47L 9/04; A47L 9/0411;
A47L 9/24; A47L 9/106; A47L 9/1683;
A47L 9/322; A47L 9/325; A47L 9/327;
A47L 9/1608; A47L 7/0004; A47L
7/0095; B23Q 11/0046; B23Q 11/0071;
B25D 16/00

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D819,282 S * 5/2018 Kim D32/22
D830,017 S * 10/2018 Nam D32/22
D861,268 S * 9/2019 Meyer D32/22
D862,011 S * 10/2019 Kim D32/22
D871,695 S * 12/2019 Niedzwecki D32/22
D897,616 S * 9/2020 Chen D32/22
2010/0186188 A1 * 7/2010 Williams A47L 9/242
15/344
2011/0219571 A1 * 9/2011 Dyson A47L 9/2873
15/344
2014/0033468 A1 * 2/2014 Guder A47L 5/24
15/415.1
2014/0366286 A1 * 12/2014 Zheng A47L 11/4008
15/3
2015/0297045 A1 * 10/2015 Marsh A47L 5/24
15/328
2015/0369255 A1 * 12/2015 Lee A47L 9/1683
15/347
2016/0174792 A1 * 6/2016 Williamson A47L 9/0422
15/383
2017/0112343 A1 * 4/2017 Innes A47L 5/28
2017/0209008 A1 * 7/2017 Isley A46D 3/00
2017/0209012 A1 * 7/2017 Peters B01D 46/2403
2017/0340180 A1 * 11/2017 Isley A47L 9/068
2018/0055313 A1 * 3/2018 Yang A47L 9/066

2018/0289227 A1 * 10/2018 Takano A47L 9/1608
2018/0303304 A1 * 10/2018 Yang A47L 9/2889
2019/0029485 A1 * 1/2019 Zhang A47L 9/24
2019/0183306 A1 * 6/2019 King A47L 5/28
2019/0208974 A1 * 7/2019 Oka A47L 9/246
2020/0000304 A1 * 1/2020 Holmes A47L 9/0477
2020/0060493 A1 * 2/2020 Yajima A47L 9/2873
2020/0069128 A1 * 3/2020 Cho A47L 9/1691
2020/0069131 A1 * 3/2020 Jung A47L 9/22
2020/0163507 A1 * 5/2020 Percy-Raine A47L 9/165
2020/0170466 A1 * 6/2020 Percy-Raine A47L 5/24
2020/0187739 A1 * 6/2020 Choi A47L 9/2868
2020/0204034 A1 * 6/2020 Shin H02K 3/34
2020/0214521 A1 * 7/2020 Percy-Raine A47L 9/102
2020/0214523 A1 * 7/2020 Kim A47L 9/102
2020/0315416 A1 * 10/2020 Hong A47L 9/0488

FOREIGN PATENT DOCUMENTS

CN 304414933 12/2017
CN 304651523 5/2018
CN 305928716 * 7/2020
EM 0033502300003 8/2016
JP D1627165 * 3/2019
KR 301029289 * 10/2019
RU 00106030 * 12/2017
WO WOD097098 * 1/2018
WO WOD201665-002 * 8/2019

OTHER PUBLICATIONS

Bissell ICONpet, available in Bissell.com, announced Year 2020 [online], [site visited Oct. 30, 2020], Available from the internet URL: <https://www.bissell.com/bissell-iconpet-cordless-vacuum-22889.html> (Year: 2020).*

Eufy by Anker HomeVac S11 Go, available Amazon.com, customer review oldest date Apr. 30, 2020 [online],[site visited Oct. 30, 2020], Internet URL: https://www.amazon.com/dp/B086M9R2YH/ref=cm_sw_r_em_apa_i_IPplFbWVDQD0P+ (Year: 2020).*

* cited by examiner

FIG. 1

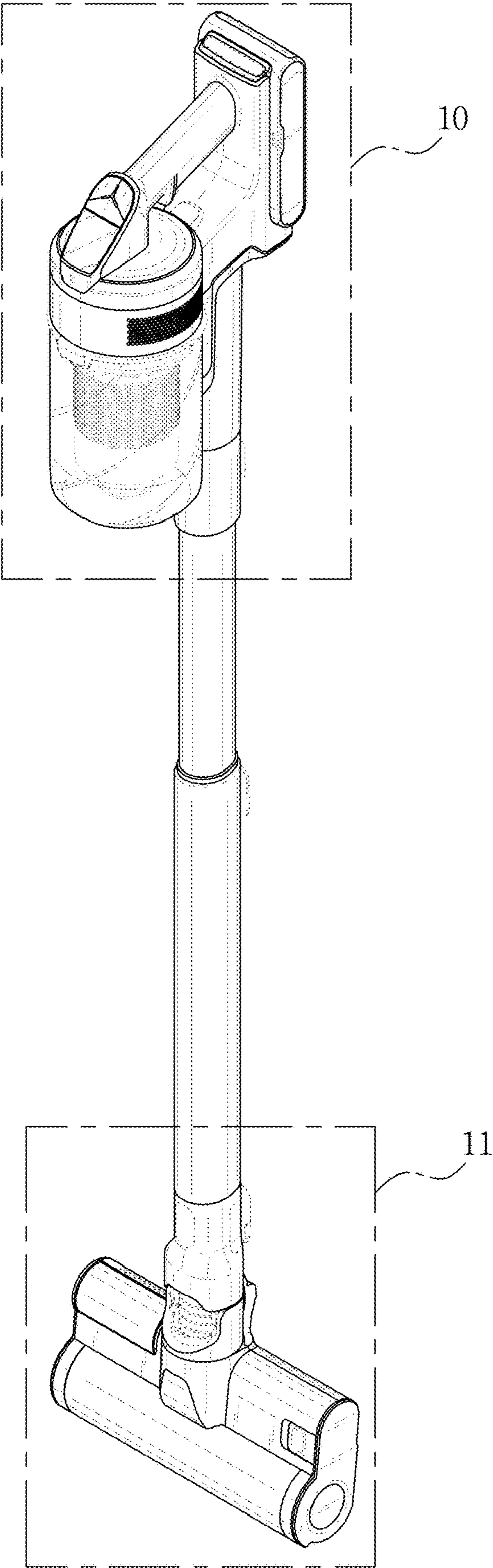


FIG.2

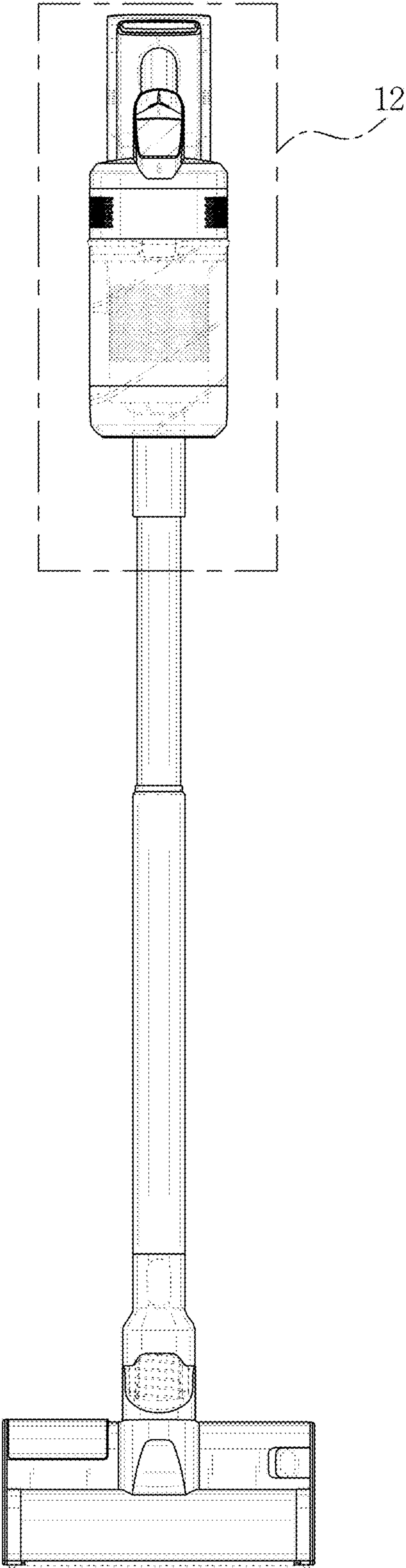


FIG.3

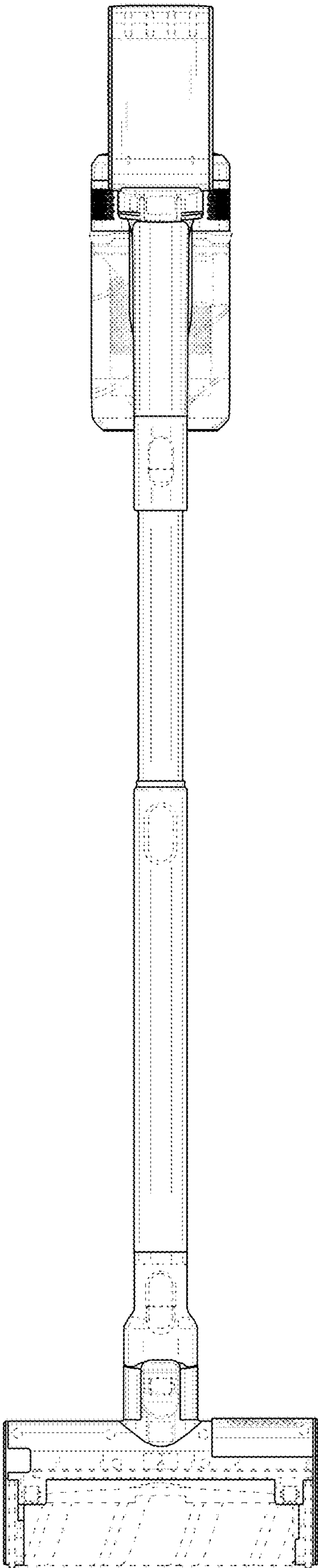


FIG. 4

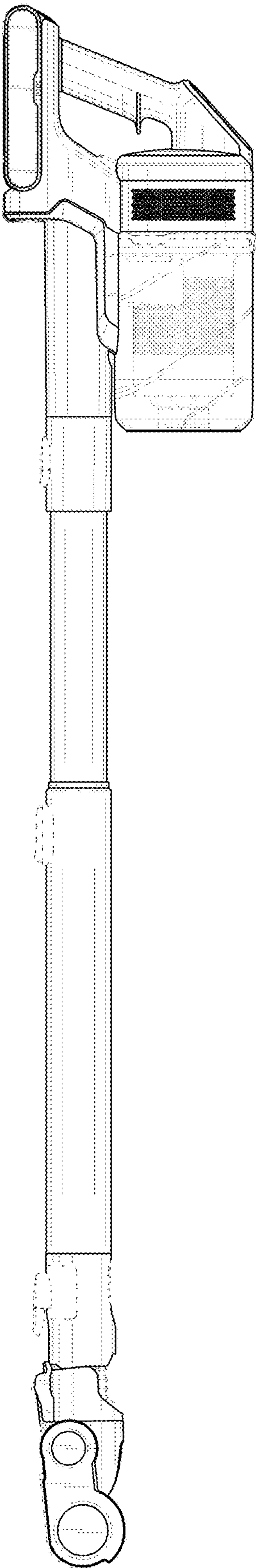


FIG. 5

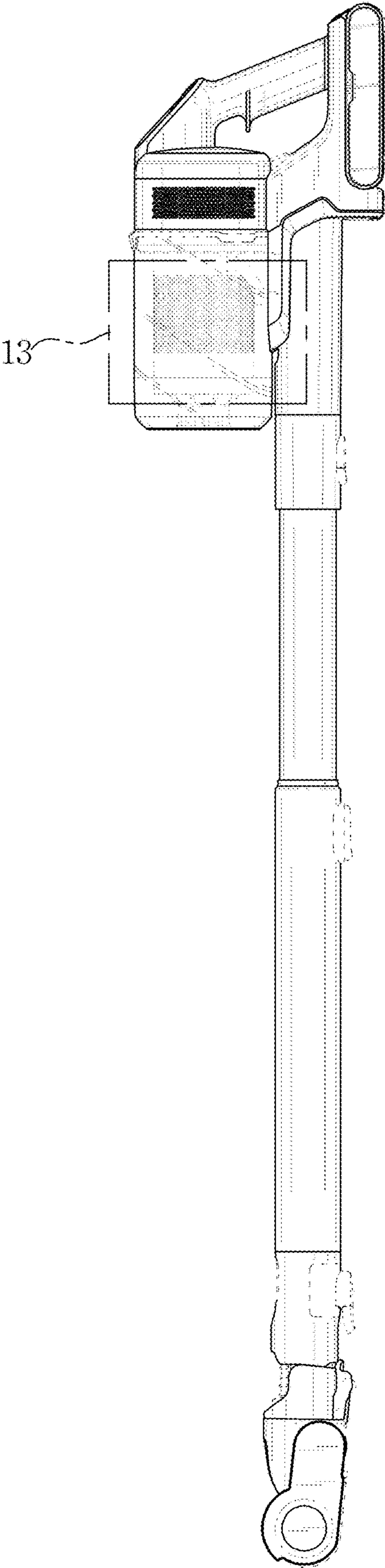


FIG. 6

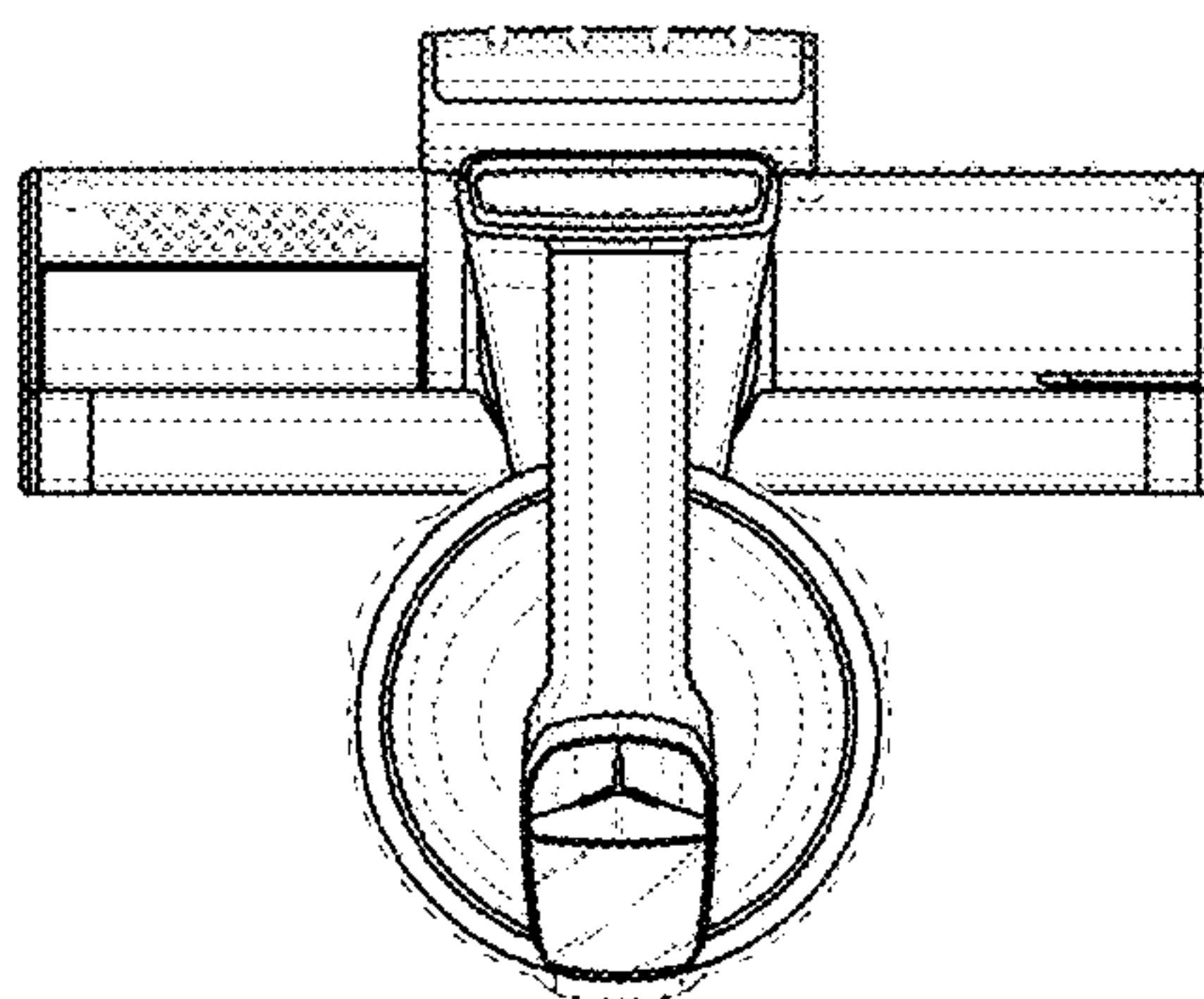


FIG. 7

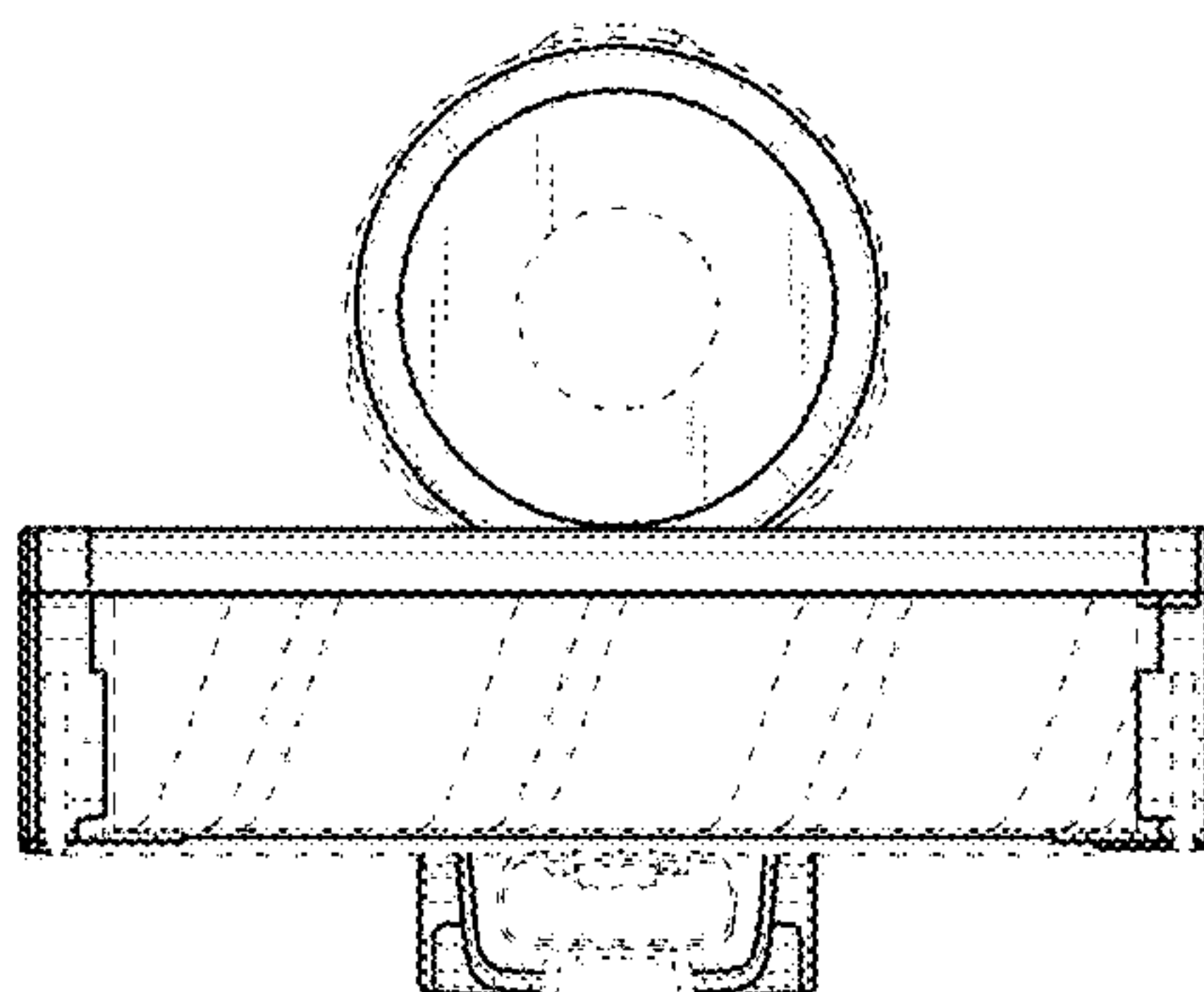


FIG. 8

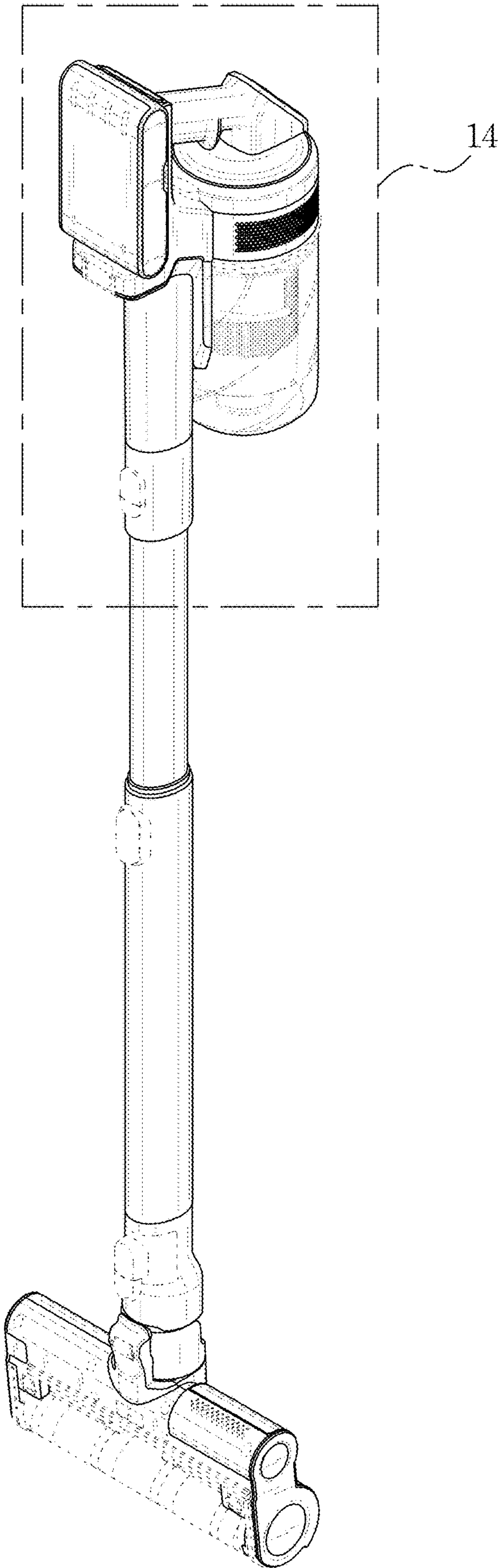


FIG. 9

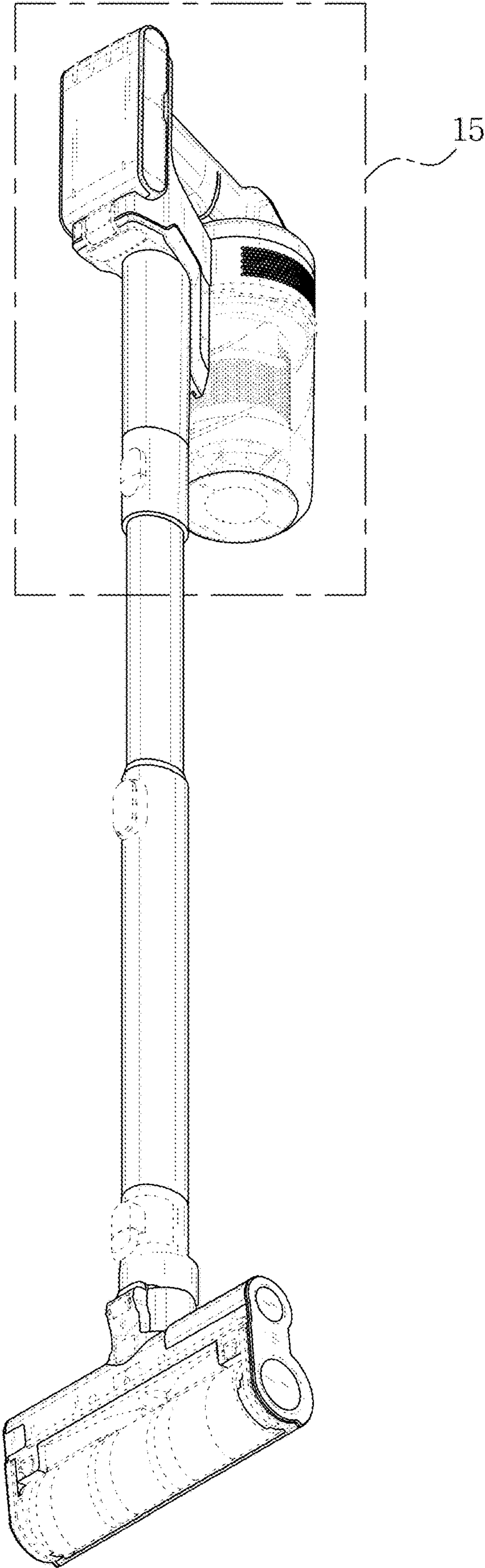


FIG. 10

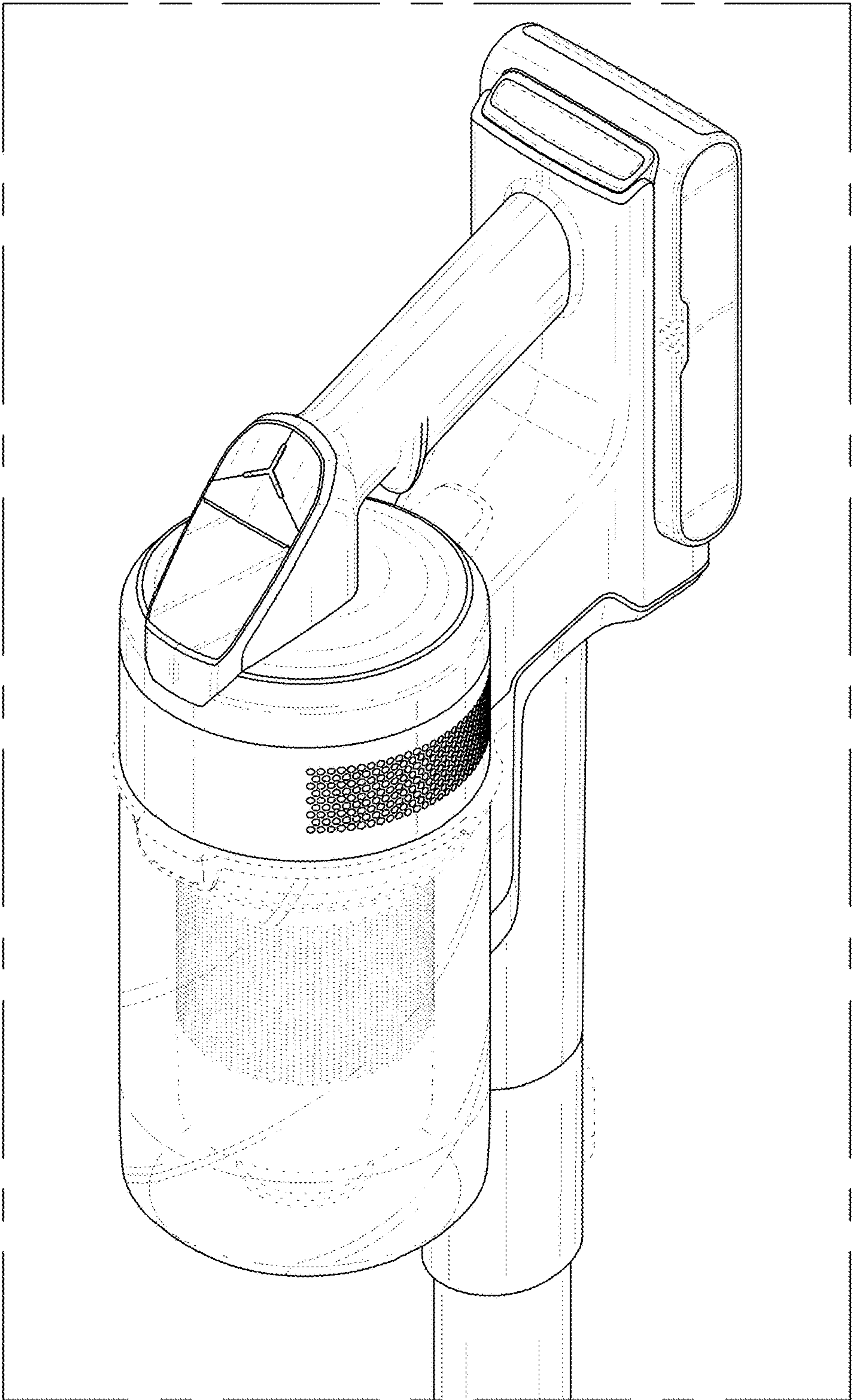


FIG. 11

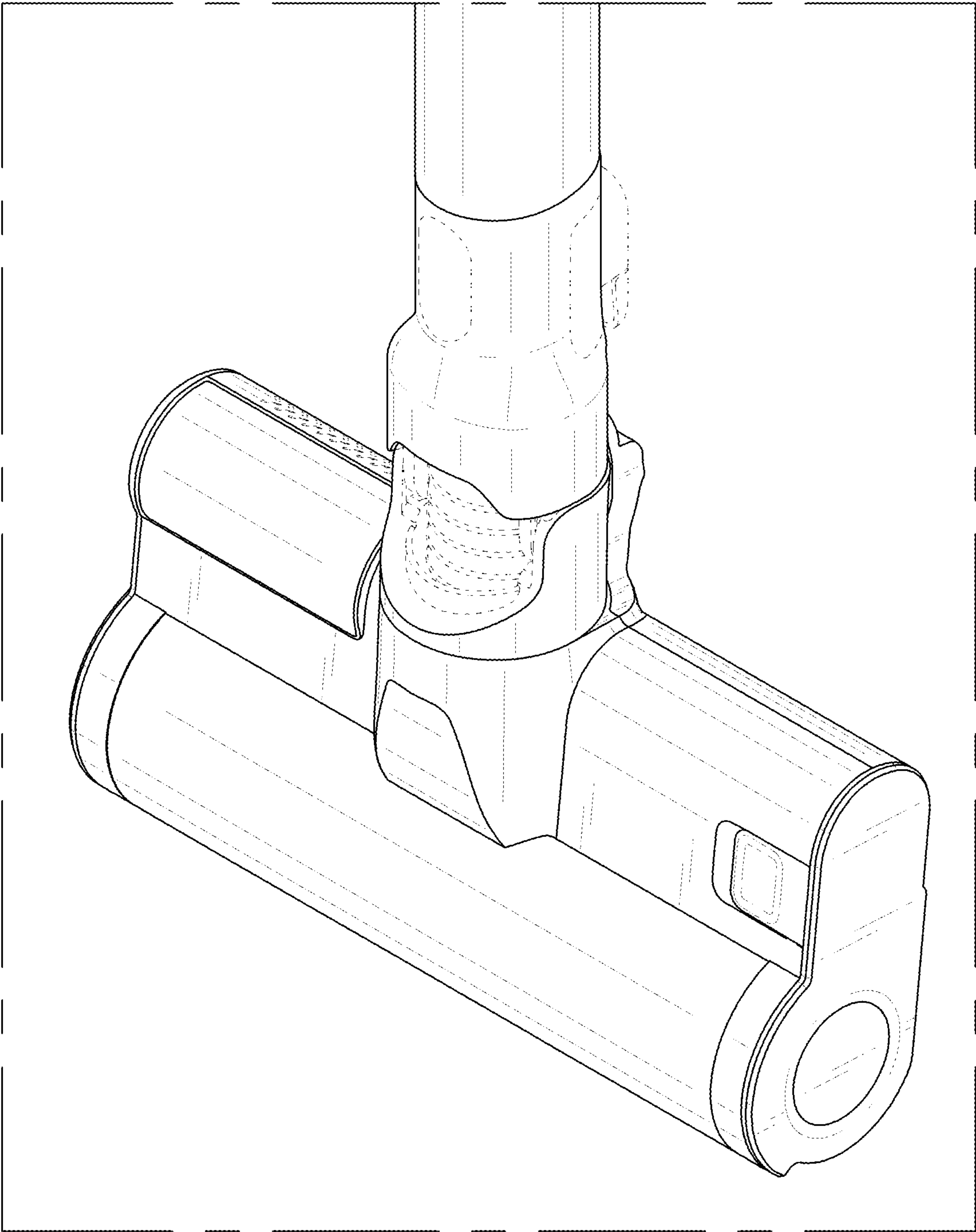


FIG. 12

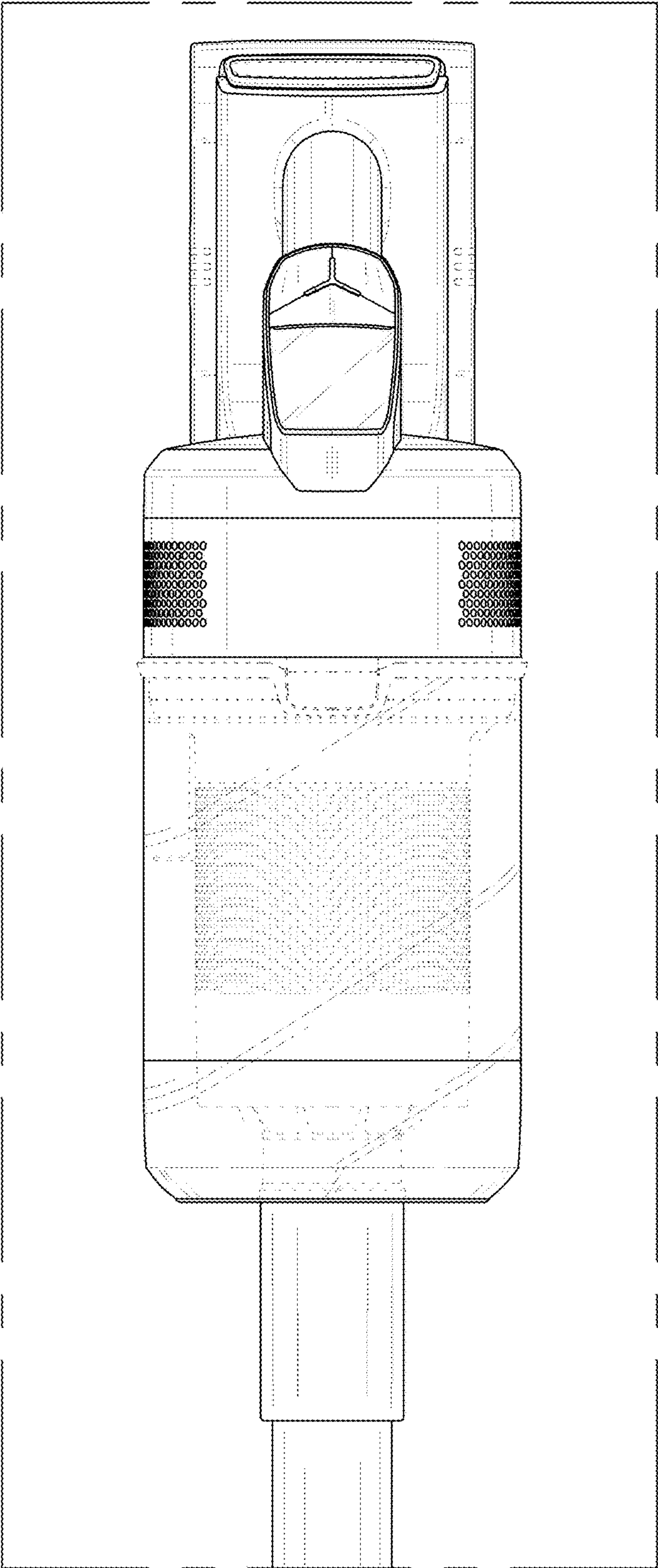


FIG. 13

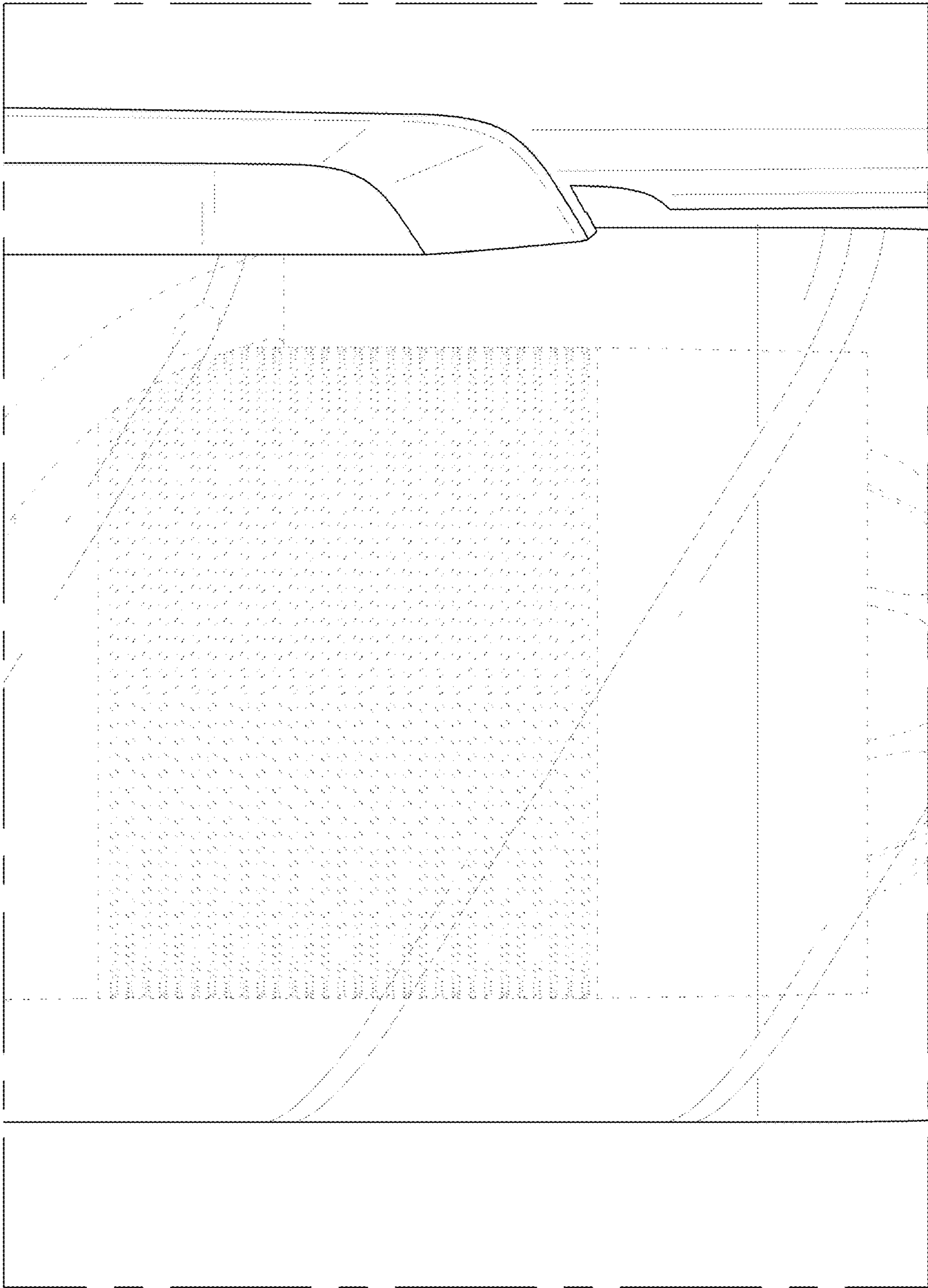


FIG. 14

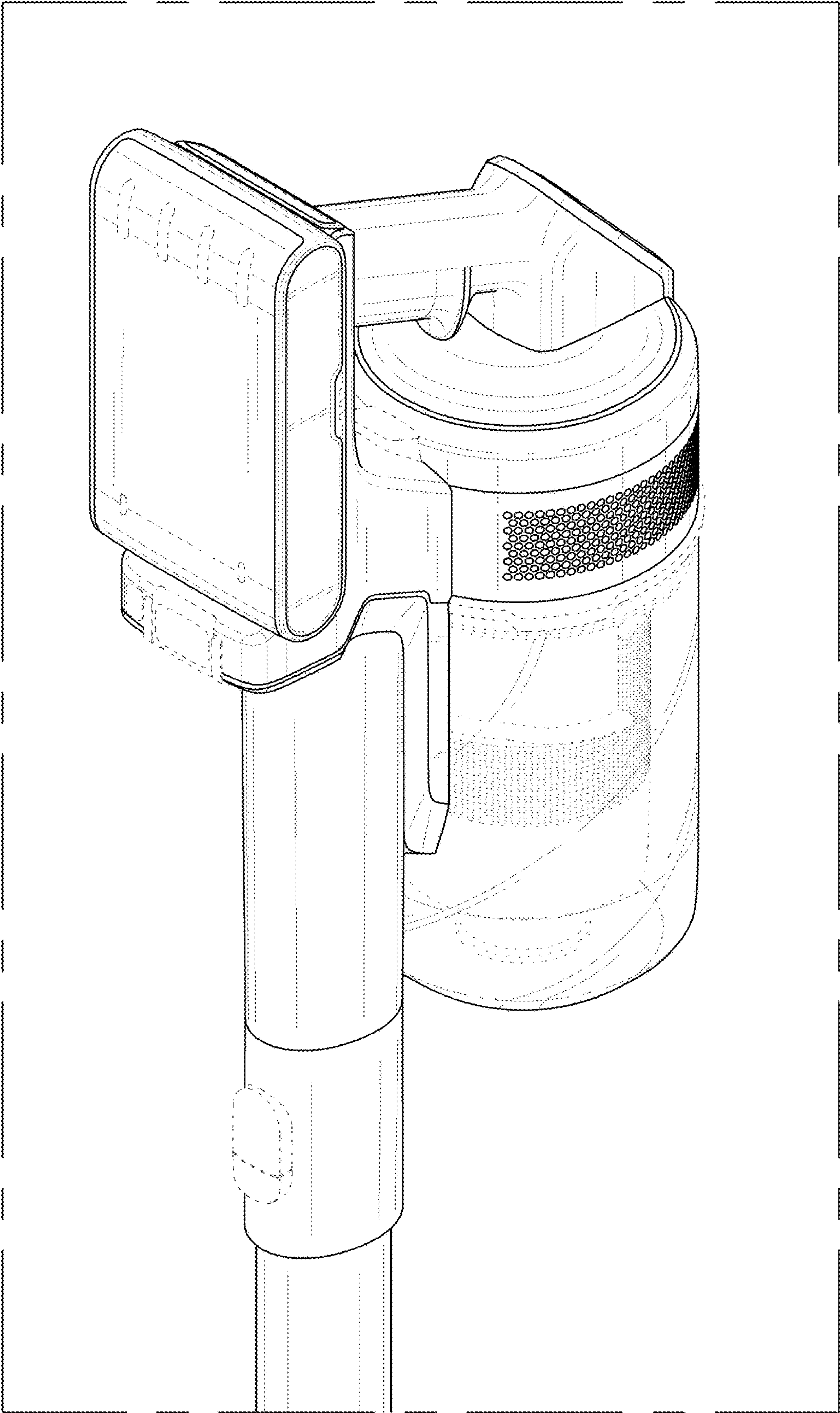


FIG. 15

