



US00D918502S

(12) **United States Design Patent** (10) **Patent No.:** **US D918,502 S**  
**Ma** (45) **Date of Patent:** **\*\* May 4, 2021**

(54) **VACUUM CLEANER**  
(71) Applicant: **Suzhou Jimo Technology Co., Ltd,**  
Suzhou (CN)  
(72) Inventor: **Chaoliang Ma,** Suzhou (CN)  
(73) Assignee: **SUZHOU JIMO TECHNOLOGY**  
**CO., LTD,** Suzhou (CN)

D421,671 S \* 3/2000 Thomas ..... D32/18  
D475,820 S 6/2003 Dyson et al.  
D522,191 S \* 5/2006 Erlich ..... D32/18  
(Continued)

(\*\*) Term: **15 Years**  
(21) Appl. No.: **29/743,639**  
(22) Filed: **Jul. 23, 2020**

FOREIGN PATENT DOCUMENTS

KR 301071482.0000 \* 8/2020

OTHER PUBLICATIONS

These are the best hair dryer deals for Dec. 2020, available in theangle.digitaltrends.com, announced on Dec. 8, 2020 [online], [site visited Jan. 28, 2021], Available from the internet URL: https://theangle.digitaltrends.com/deals/best-black-friday-cyber-monday-hair-dryer-deals/ (Year: 2020).\*

(Continued)

(30) **Foreign Application Priority Data**  
Jul. 16, 2020 (CN) ..... 202030387883.2

*Primary Examiner* — Dana K Weiland  
*Assistant Examiner* — Jennylou M Binas

(51) **LOC (13) Cl.** ..... **15-05**  
(52) **U.S. Cl.**  
USPC ..... **D32/18; D32/21**

(57) **CLAIM**

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

(58) **Field of Classification Search**  
USPC ..... D32/17, 18, 21, 22, 31; D21/526  
CPC ..... A47L 5/24; A47L 5/26; A47L 5/28; A47L 9/102; A47L 9/122; A47L 9/127; A47L 9/1608; A47L 9/1683; A47L 9/2857; A47L 9/2884; A47L 9/32; A47L 9/322; B04C 5/185; B08B 3/04; B01D 2279/55; B23Q 11/0046; B23Q 11/0071; E04H 4/1636; Y10T 29/49716  
See application file for complete search history.

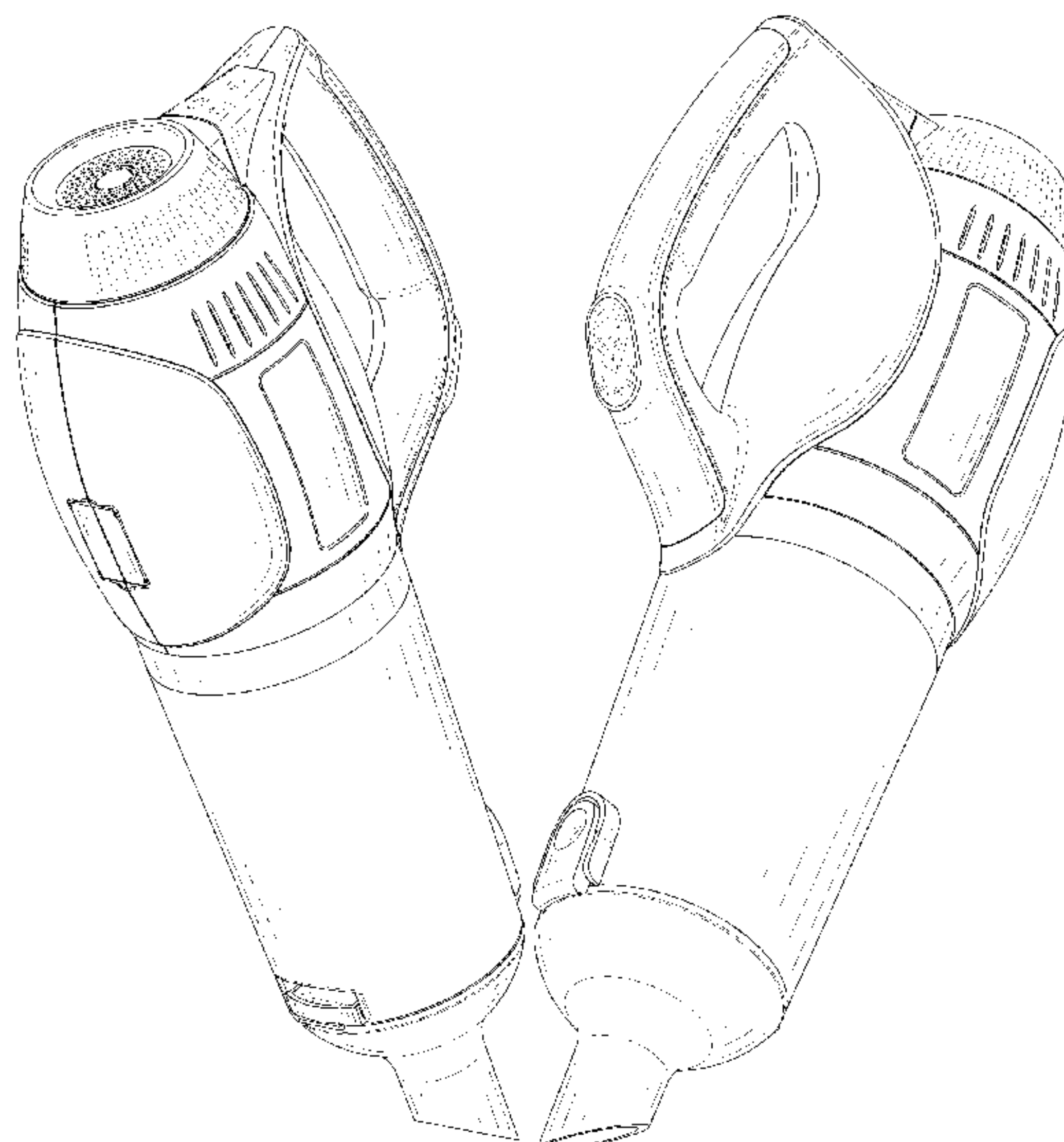
**DESCRIPTION**

FIG. 1 is a perspective view of a vacuum cleaner showing my new design;  
FIG. 2 is another perspective view thereof;  
FIG. 3 is a front elevational view thereof;  
FIG. 4 is a rear elevational view thereof;  
FIG. 5 is a left side elevational view thereof;  
FIG. 6 is a right side elevational view thereof;  
FIG. 7 is a top plan view thereof;  
FIG. 8 is a bottom plan view thereof; and,  
FIG. 9 is a perspective view of the vacuum cleaner on a cradle.

The broken lines in the drawings are for the purpose of illustrating portions of the vacuum cleaner that form no part of the claimed design. The broken lines showing a cradle in FIG. 9 are for the purpose of illustrating environment and form no part of the claimed design.

(56) **References Cited**  
U.S. PATENT DOCUMENTS  
1,861,261 A \* 5/1932 Carson ..... A47L 5/24  
15/344  
D212,829 S \* 11/1968 Kraines ..... D32/18  
D314,846 S \* 2/1991 deBlois ..... D32/18  
D320,099 S \* 9/1991 Case ..... D32/18  
D399,618 S \* 10/1998 Jacobs ..... D32/22

**1 Claim, 9 Drawing Sheets**



(56)

**References Cited**

## U.S. PATENT DOCUMENTS

D526,752 S \* 8/2006 Rosenzweig ..... D32/18  
D547,505 S \* 7/2007 Carr ..... D32/31  
D640,848 S \* 6/2011 Houghton ..... D32/18  
D685,542 S \* 7/2013 Erlich ..... D32/18  
D807,598 S 1/2018 Houghton  
D827,955 S 9/2018 Palladino et al.  
D876,034 S \* 2/2020 Zhou ..... D32/18  
D880,086 S \* 3/2020 Tan ..... D32/18

## OTHER PUBLICATIONS

APOSEN Handheld Vacuum, available in Amazon.com, customer review oldest date Nov. 3, 2020 [online], [site visited Jan. 28, 2021], Available from the internet URL: [https://www.amazon.com/APOSEN-Handheld-Charging-Cordless-Portable/dp/B08DV6JSDP/ref=cm\\_cr\\_ar\\_p\\_d\\_product\\_top?ie=UTF8](https://www.amazon.com/APOSEN-Handheld-Charging-Cordless-Portable/dp/B08DV6JSDP/ref=cm_cr_ar_p_d_product_top?ie=UTF8) (Year: 2020).\*

Black+Decker CHV1410L 16volt Lithium Cordless Dust Buster Hand Vac, announced in YouTube on Mar. 27, 2016 [online], [site visited Jan. 28, 2021], Available from the internet URL: <https://www.youtube.com/watch?v=4cqWsx11HIA&feature=youtu.be> (Year: 2016).\*

Cordless Vacuum Handheld Cleaner, available in Amazon.com, customer review oldest date Jun. 17, 2019 [online], [site visited Jan. 28, 2021], Available from the internet URL: [https://www.amazon.com/dp/B08KXX1N1P/ref=cm\\_sw\\_r\\_em\\_apa\\_fabc\\_ivHeGbNM9C43A?\\_encoding=UTF8&psc=1](https://www.amazon.com/dp/B08KXX1N1P/ref=cm_sw_r_em_apa_fabc_ivHeGbNM9C43A?_encoding=UTF8&psc=1) (Year: 2019).\*

\* cited by examiner

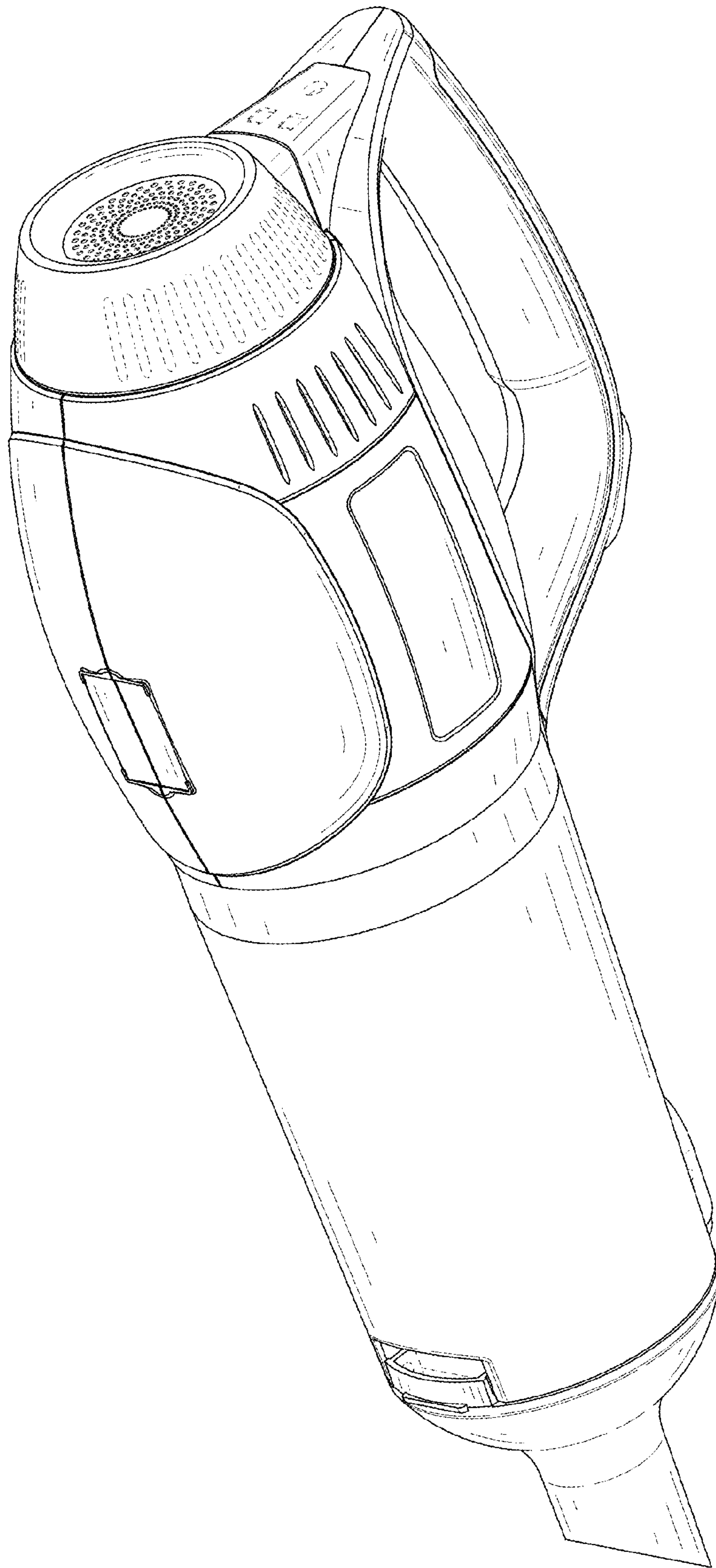


FIG. 1



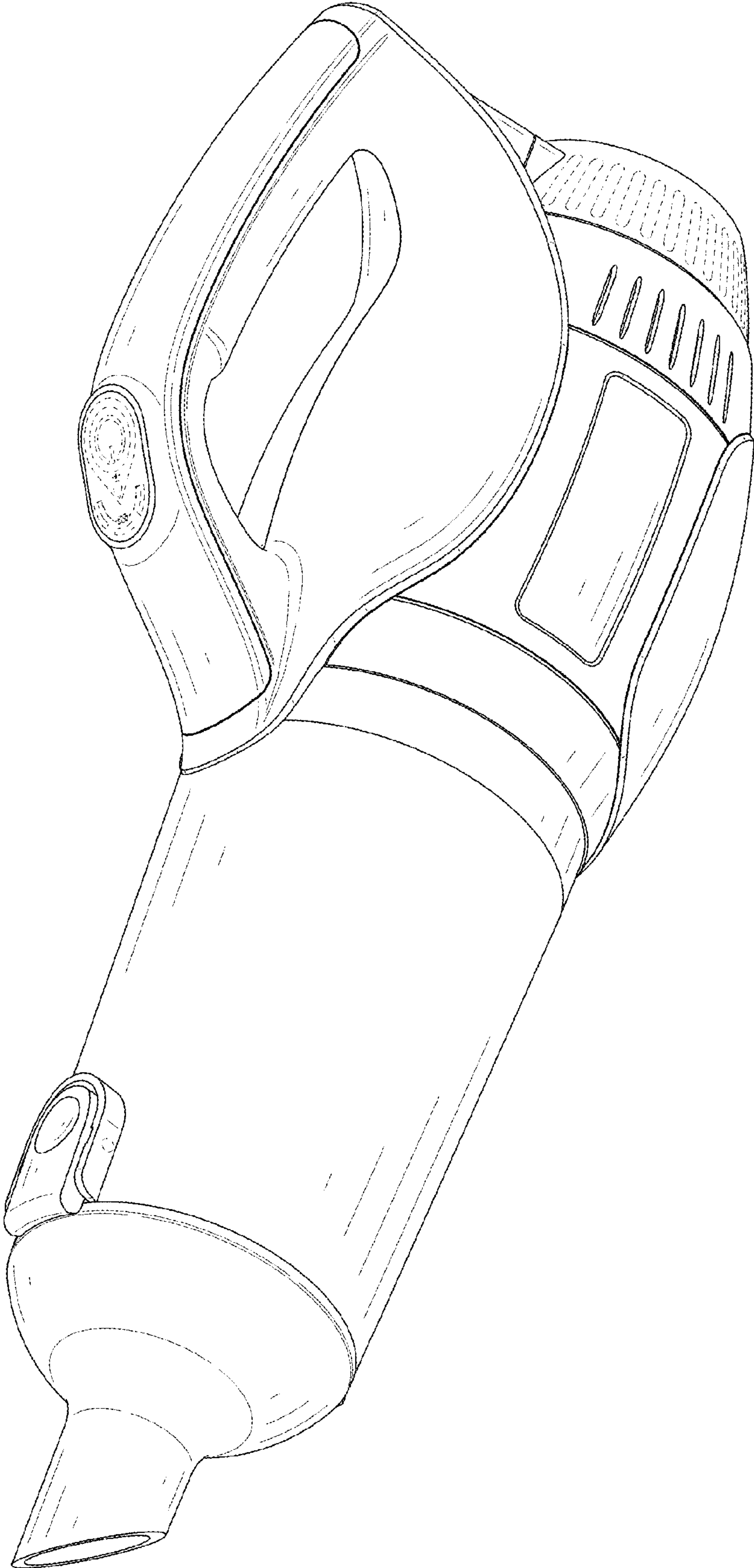


FIG. 2

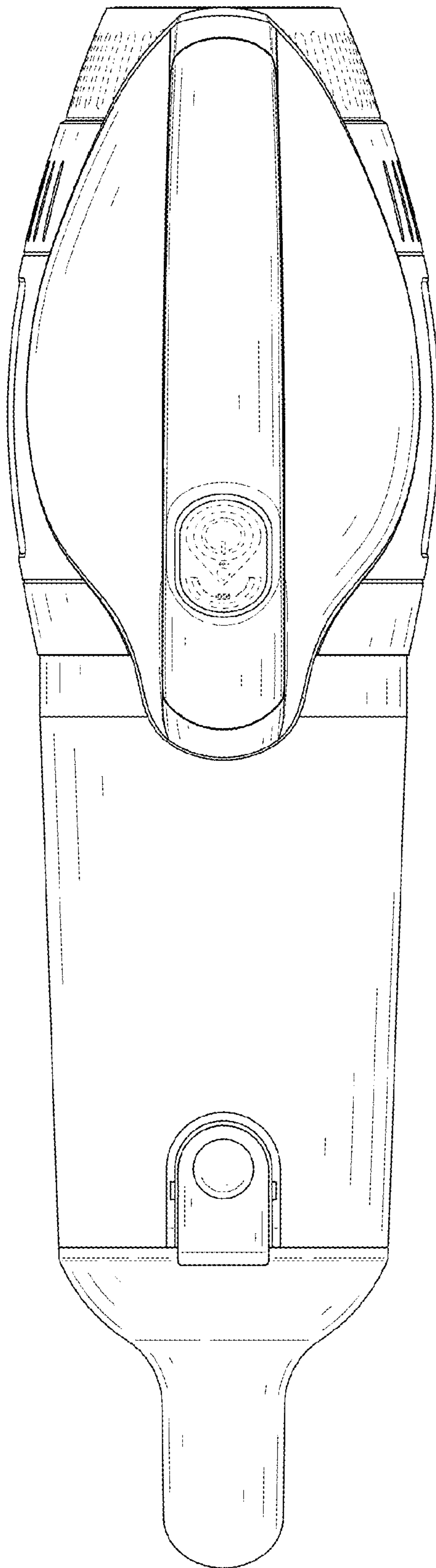


FIG. 3

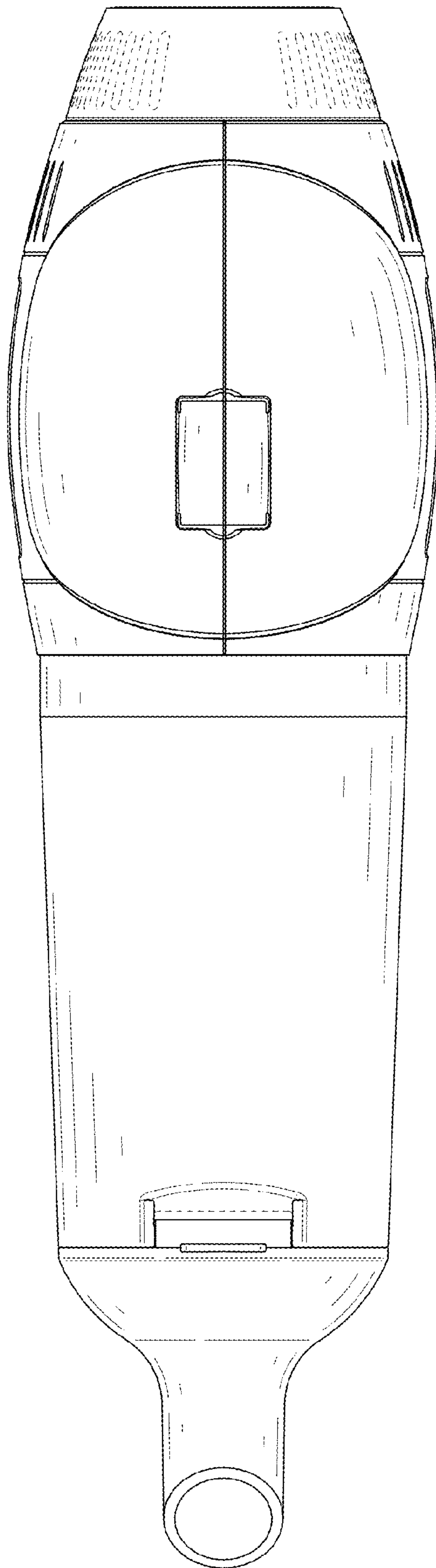


FIG. 4

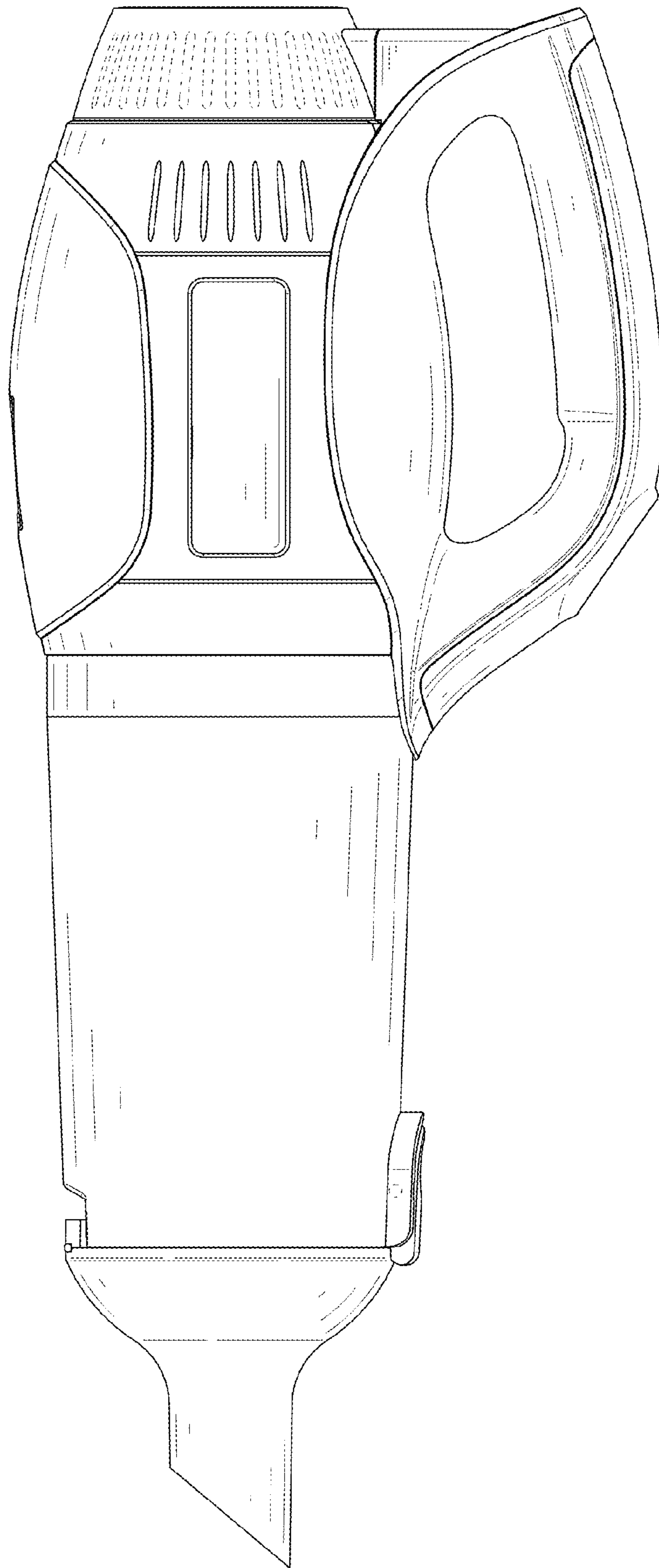


FIG. 5

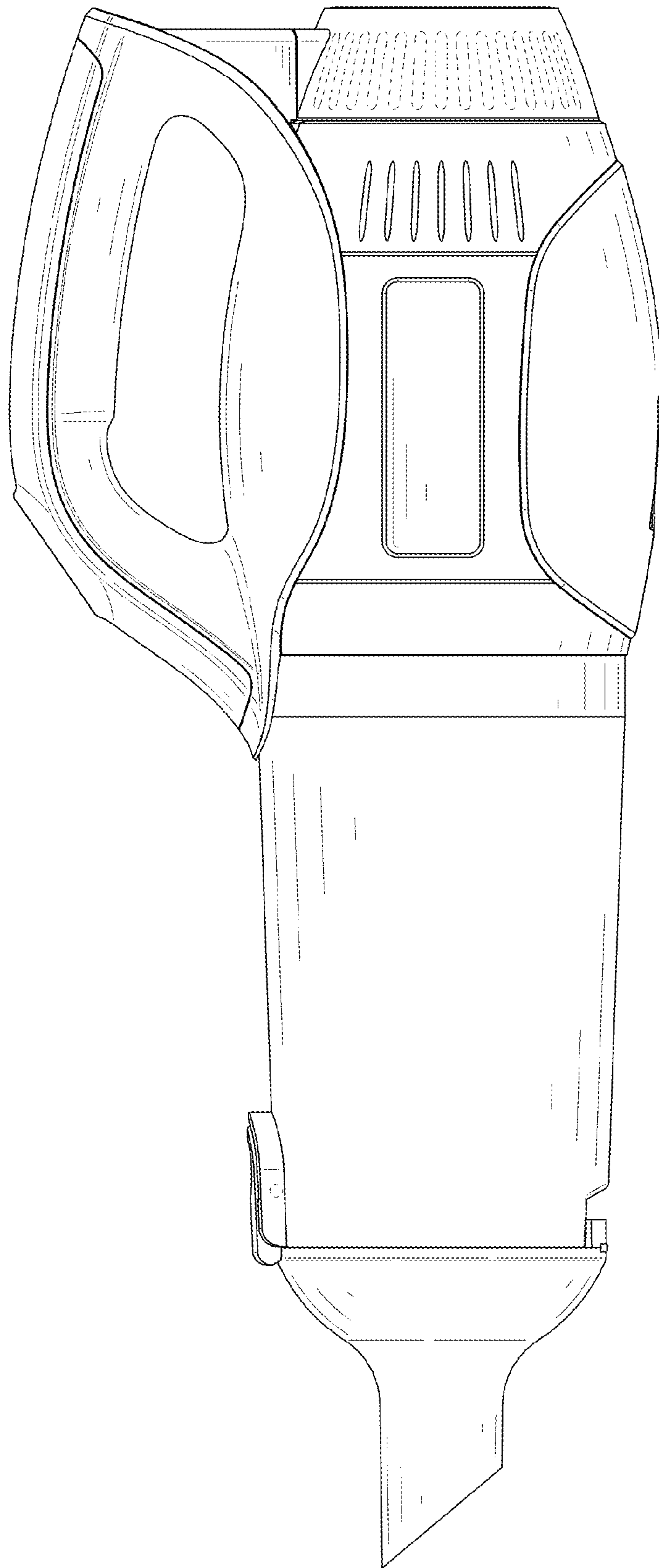


FIG. 6



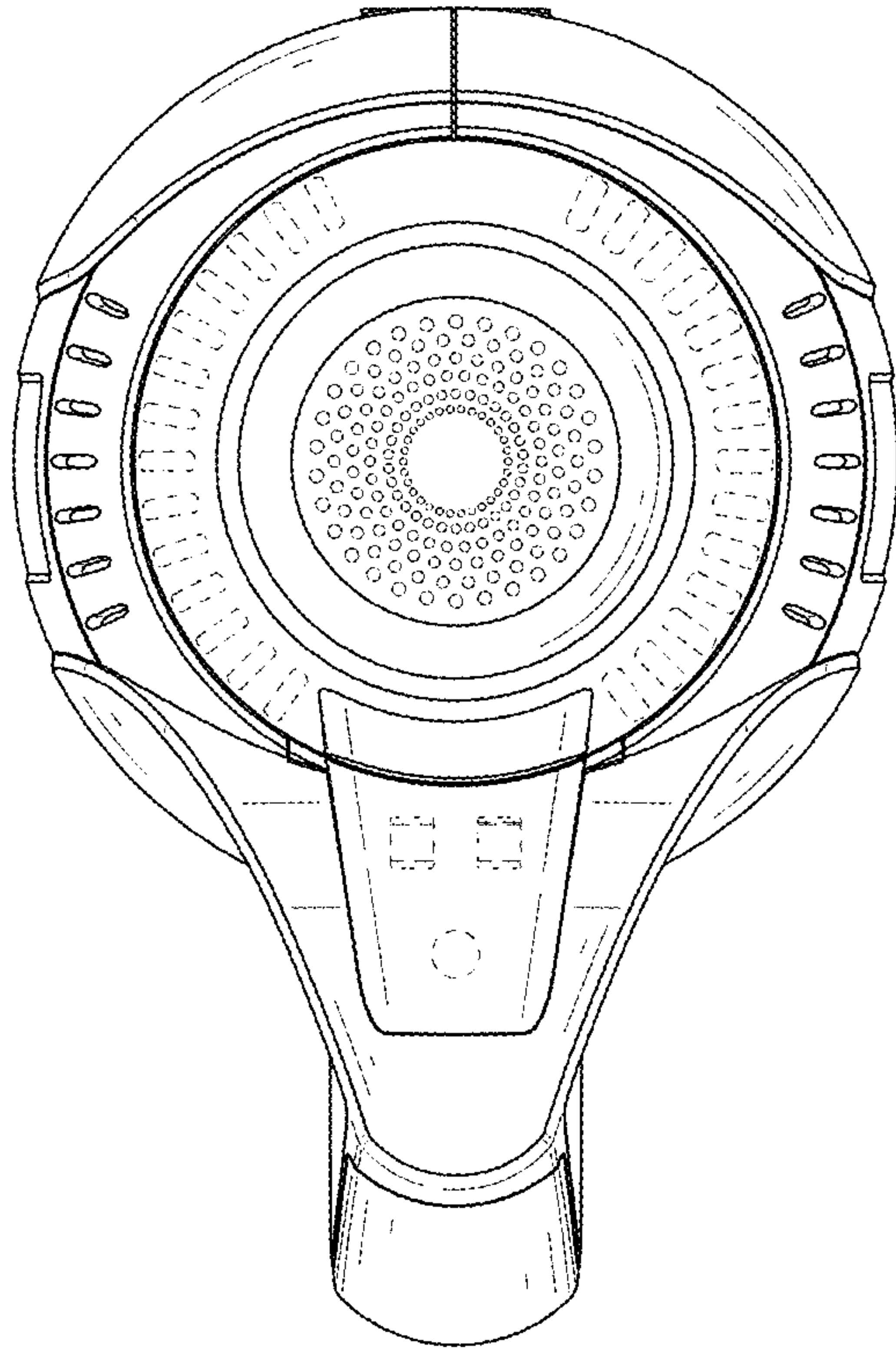


FIG. 7

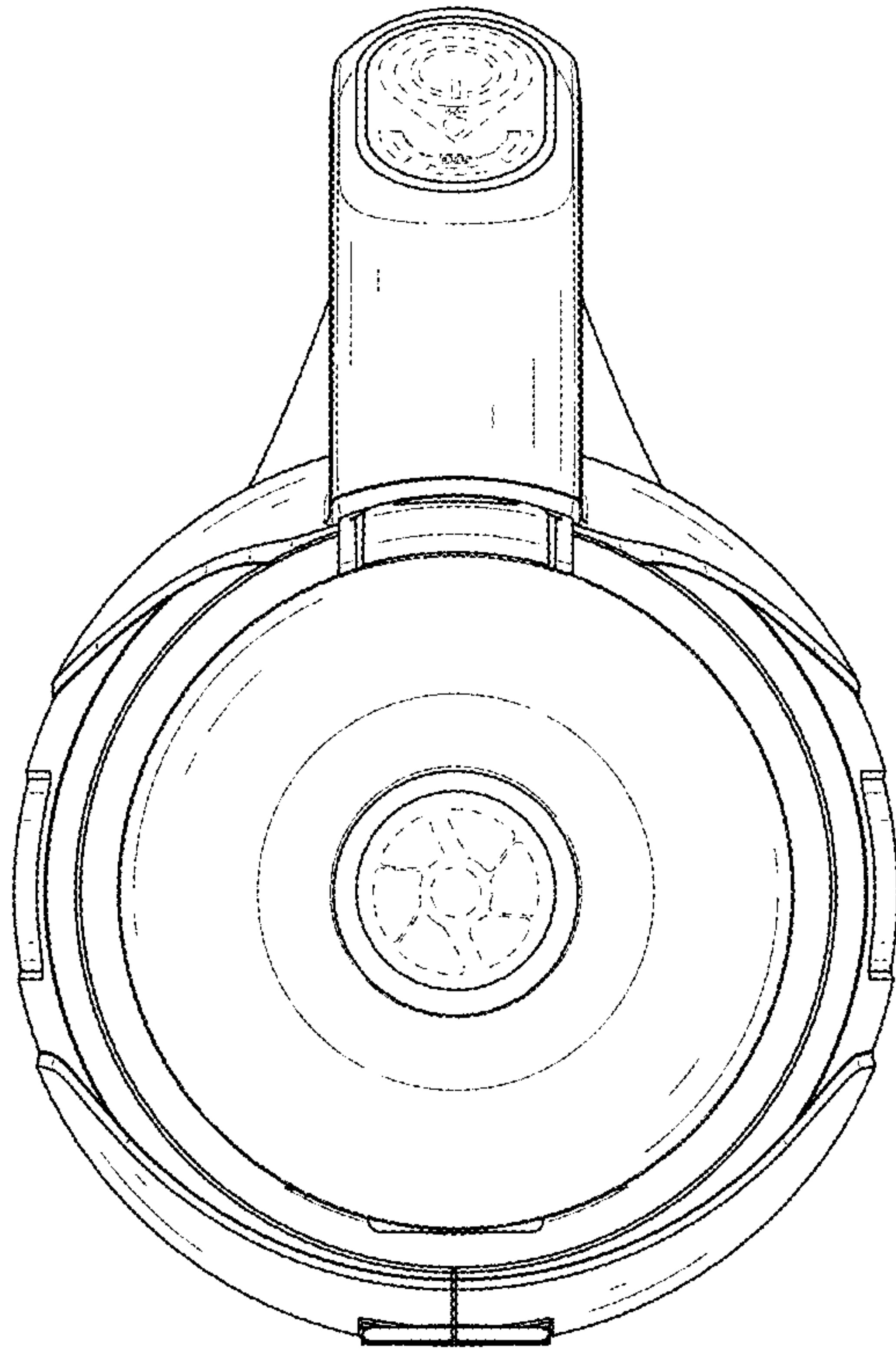


FIG. 8

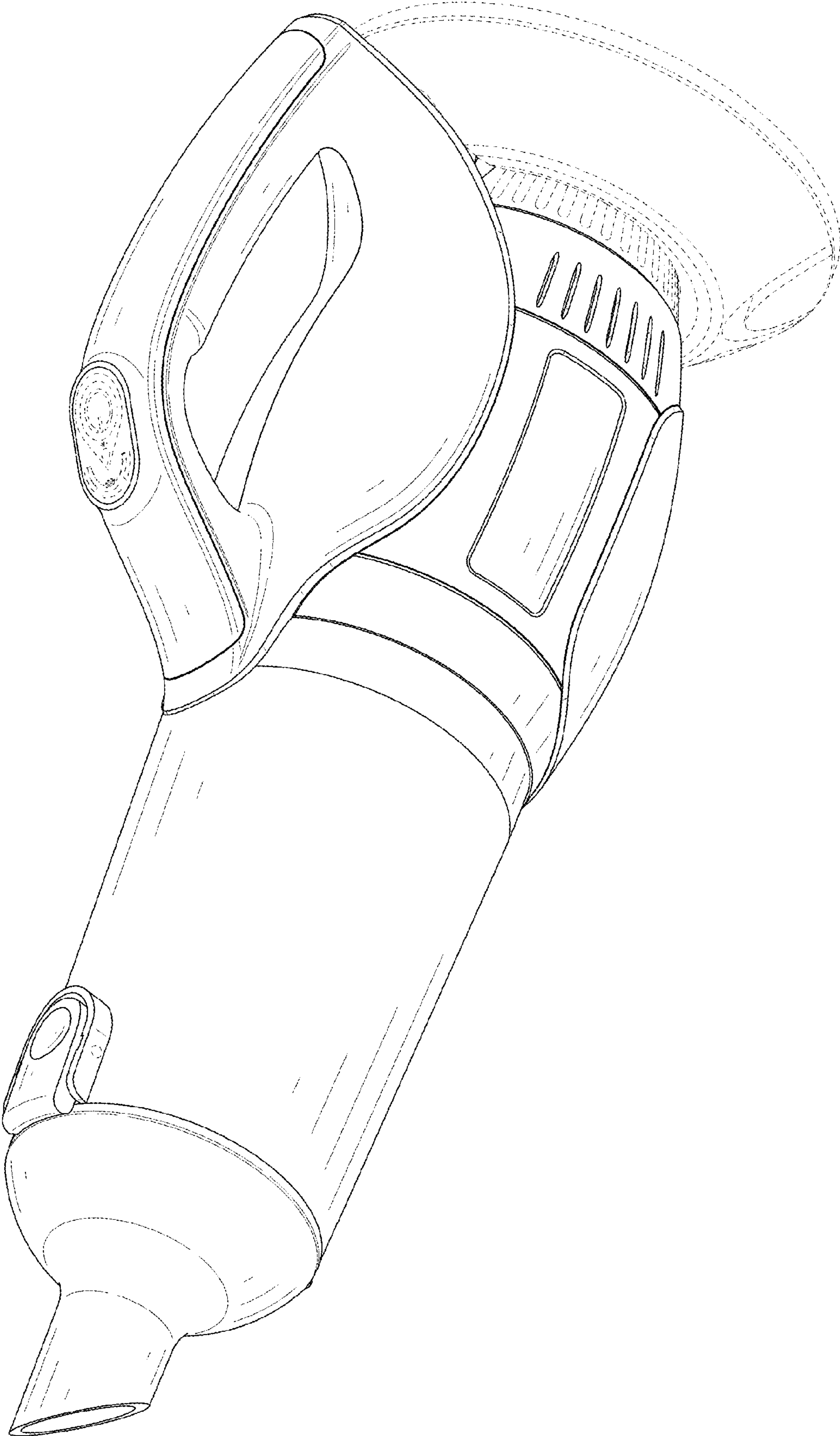


FIG. 9