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(12) **United States Design Patent** (10) **Patent No.:** **US D906,608 S**
Li (45) **Date of Patent:** **** Dec. 29, 2020**

(54) **ROBOTIC VACUUM CLEANER**
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(72) Inventor: **ShaoJun Li**, Guangdong (CN)
(**) Term: **15 Years**
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(52) **U.S. Cl.**
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(58) **Field of Classification Search**
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CPC A47L 5/00; A47L 9/00; A47L 9/04; A47L
9/06; A47L 9/16; A47L 9/28; A47L 9/30
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS
D548,902 S * 8/2007 Chun D32/21
7,441,298 B2 * 10/2008 Svendsen A47L 5/30
15/49.1
D658,341 S * 4/2012 Nam D32/21
D660,530 S * 5/2012 Geringer D32/21
D661,440 S * 6/2012 Lee D32/21
D669,235 S * 10/2012 Bassett D32/21
D682,495 S * 5/2013 Kim D32/21
D690,478 S * 9/2013 Li D32/21

(Continued)

OTHER PUBLICATIONS

Bagotte BG800 Robot vacuum review (on-line), dated Apr. 18, 2019. Retrieved from Internet Jun. 3, 2020, URL: <https://the-gadgeteer.com/tag/vacuum/> (4 pages) (Year: 2019).*

(Continued)

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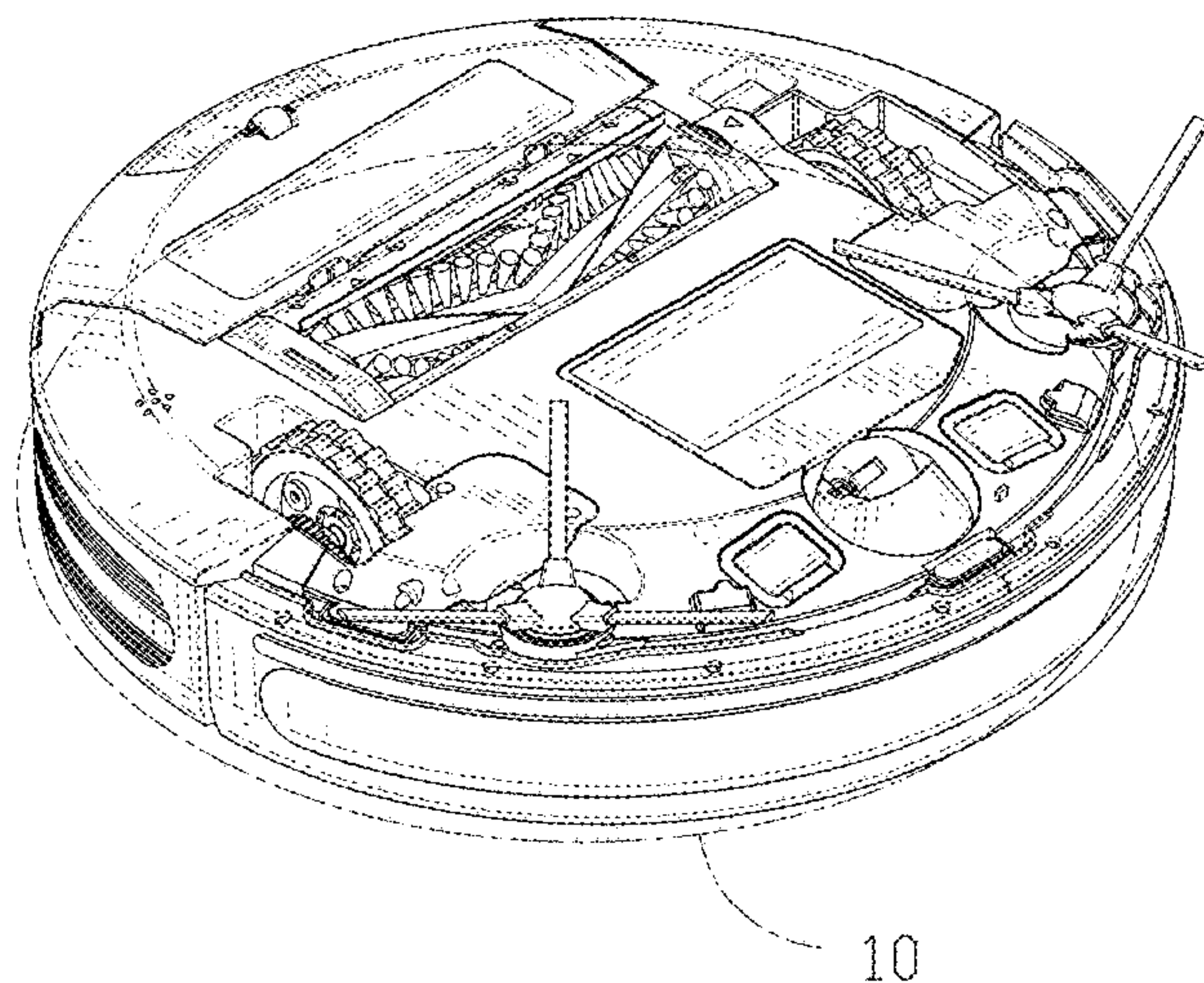
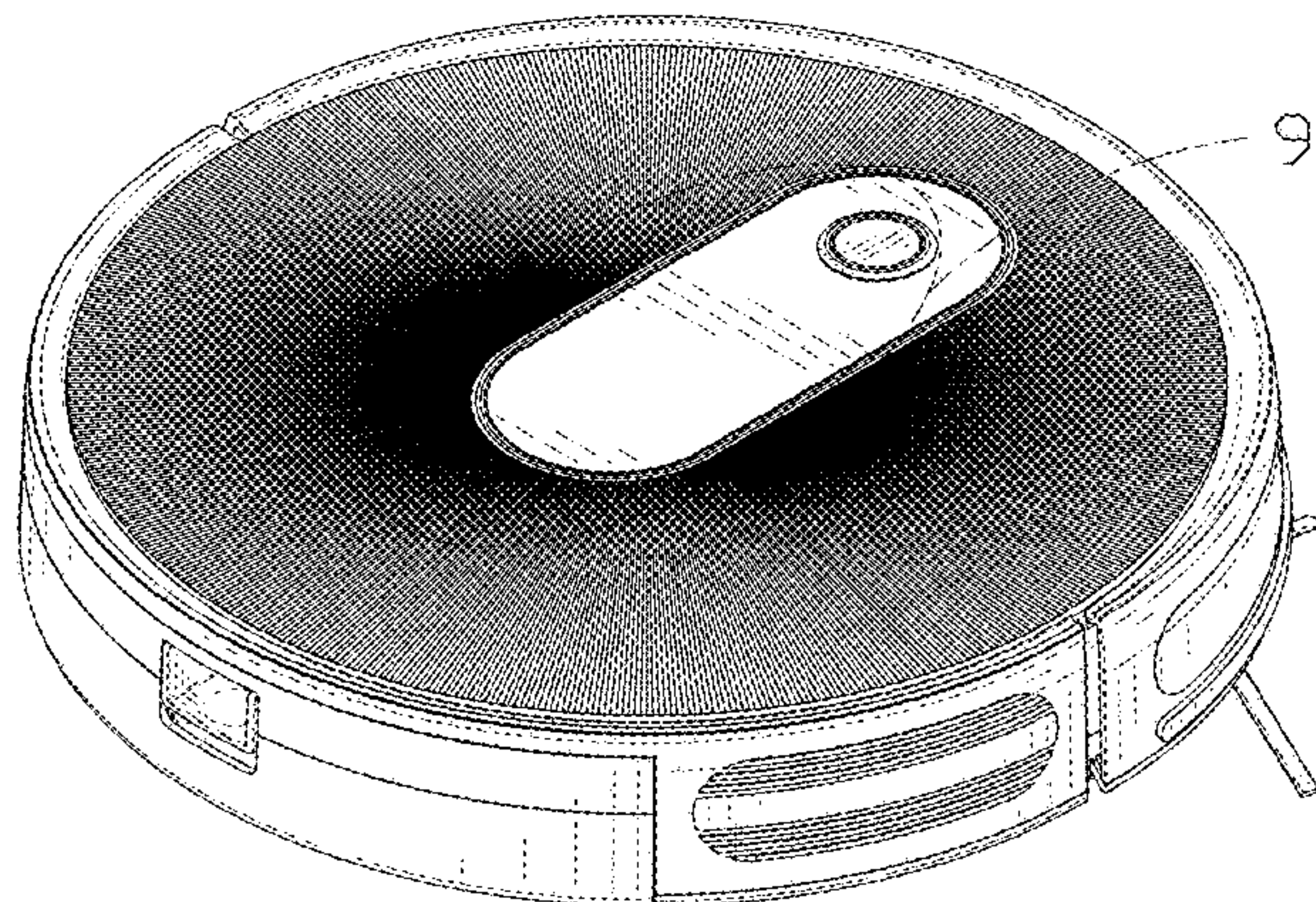
(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a front and top perspective view of a first embodiment of a robotic vacuum cleaner, showing my new design;
FIG. 2 is a rear and bottom 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;
FIG. 9 is an enlarged view of a portion indicated in FIG. 1;
FIG. 10 is an enlarged view of a portion indicated in FIG. 2;
FIG. 11 is a front and top perspective view of a second embodiment of the robotic vacuum cleaner;
FIG. 12 is a rear and bottom perspective view thereof;
FIG. 13 is a front elevational view thereof;
FIG. 14 is a rear elevational view thereof;
FIG. 15 is a left side elevational view thereof;
FIG. 16 is a right side elevational view thereof;
FIG. 17 is a top plan view thereof;
FIG. 18 is a bottom plan view thereof;
FIG. 19 is an enlarged view of a portion indicated in FIG. 11; and,
FIG. 20 is an enlarged view of a portion indicated in FIG. 12.
The broken lines in the figures illustrate portions of the robotic vacuum cleaner that form no part of the claimed design. The dash dot dash lines in FIGS. 1, 2, 9, 10, 11, 12, 19 and 20 are for the purpose of depicting the cut line of the enlarged view and form no part of the claim.

1 Claim, 20 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

8,584,305 B2 * 11/2013 Won A47L 5/30
 15/319
 8,741,013 B2 * 6/2014 Swett A47L 9/106
 15/319
 D771,884 S * 11/2016 Ninomiya D32/21
 D835,869 S * 12/2018 Li D32/21
 10,143,348 B2 * 12/2018 Machida A47L 9/10
 D840,617 S * 2/2019 Dou D32/21
 D843,671 S * 3/2019 Chei D32/21
 10,222,805 B2 * 3/2019 Munich G05D 1/0246
 10,349,798 B2 * 7/2019 Jun A47L 9/2852
 D860,559 S 9/2019 Thackray et al.
 10,463,215 B2 * 11/2019 Morin A47L 9/2815
 D869,109 S * 12/2019 Yu D32/21
 D870,403 S * 12/2019 Ebrahimi Afrouzi D32/21
 D870,994 S * 12/2019 Zhou D32/21
 D871,694 S * 12/2019 Casini D32/21
 D872,953 S * 1/2020 Ebrahimi Afrouzi D32/21
 D876,035 S * 2/2020 Song D32/21
 D884,298 S * 5/2020 Li D32/21
 D885,698 S * 5/2020 Li D32/21
 D885,699 S * 5/2020 Li D32/21
 D890,457 S * 7/2020 Pearce D32/21
 D893,819 S * 8/2020 Li D32/21
 2016/0051110 A1 * 2/2016 Cao A47L 9/009
 15/324
 2019/0069744 A1 * 3/2019 Liggett A47L 9/2805
 2019/0171222 A1 * 6/2019 Nan A47L 9/00
 2019/0200823 A1 * 7/2019 Song A47L 9/30
 2019/0350428 A1 * 11/2019 Hu A47L 11/4083
 2020/0022553 A1 * 1/2020 Gill A47L 11/4025
 2020/0037843 A1 * 2/2020 Fiebig A47L 9/2889

OTHER PUBLICATIONS

Bagotte BG700 robot vacuum cleaner (on-line), dated Dec. 10, 2019. Retrieved from Internet Jun. 3, 2019, URL: <https://thegadgeteer.com/2019/12/10/bagotte-bg700-robot-vacuum-cleaner-review/> (9 pages) (Year: 2019).*

Bagotte BG600 Robot Vacuum Cleaner (on-line), reviewed Apr. 6, 2019. Retrieved from Internet Jun. 3, 2020, URL: <https://www.amazon.com/Bagotte-Cleaner-Self-Charging-Automatic-Hardwood/dp/B07MVTFZS7> (1 page) (Year: 2019).*

Amarey A900 Smart Robot Vacuum Cleaner (on-line), dated Sep. 11, 2019. Retrieved from Internet Jun. 3, 2020, URL: <https://readwrite.com/2019/09/11/annarey-a900-smart-robot-vacuum-cleaner-connected-navigational-and-versatile/> (6 pages) (Year: 2019).*

Eufy RoboVac 15C (on-line), no date available. Retrieved from Internet Jun. 3, 2020, URL: <https://www.amazon.com/eufy-Upgraded-Super-Thin-Self-Charging-Medium-Pile/dp/B07MPS81HR> (1 page).*

Liebert C30B Robot Vacuum Cleaner (on-line), no date available. Retrieved from Internet Jun. 3, 2020, URL: <https://www.newegg.com/black-liebert-c30b-e30-robot-vacuum-cleaner/p/0UH-0049-00012#> (5 pages).*

Proscenic 820P Robot Vacuum Cleaner (on-line), no date available. Retrieved from Internet Jun. 3, 2020, URL: <https://www.geekmaxi.com/en/robot-vacuum-cleaner-proscenic-820p-robot-vacuum-cleaner-with-wet-cleaning-function-eu-plug-1192.html> (13 pages).*

The Best Robot Vacuums (on-line), dated Nov. 6, 2019. Retrieved from Internet Jun. 3, 2020, URL: <https://www.wired.com/gallery/best-robot-vacuums/> (7 pages) (Year: 2019).*

Deenkee DK600 vacuum review (on-line), dated Aug. 1, 2019. Retrieved from Internet Jun. 3, 2020, URL: <https://www.youtube.com/watch?v=G-urnVIQVRf8> (1 page) (Year: 2019).*

* cited by examiner

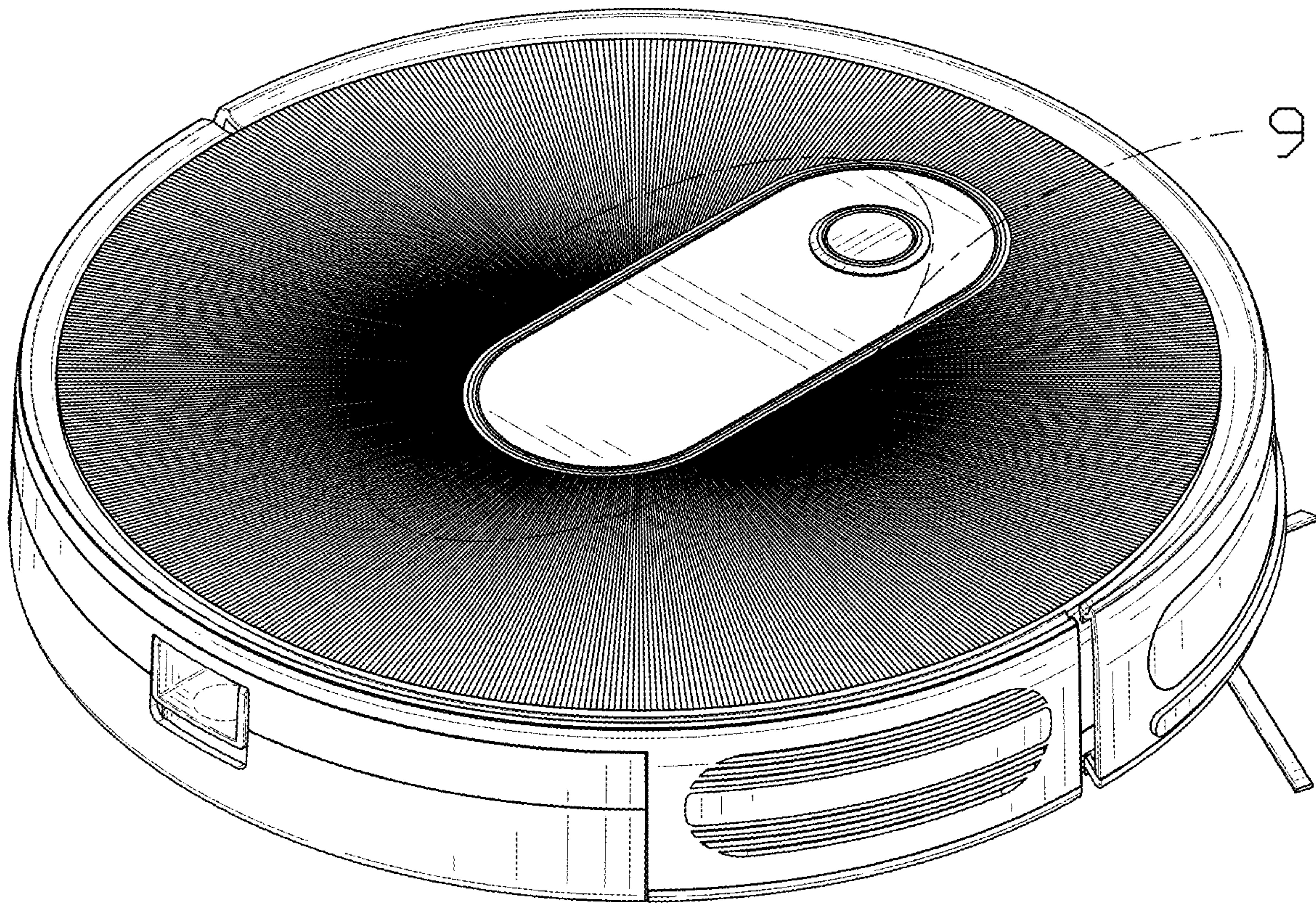


FIG. 1

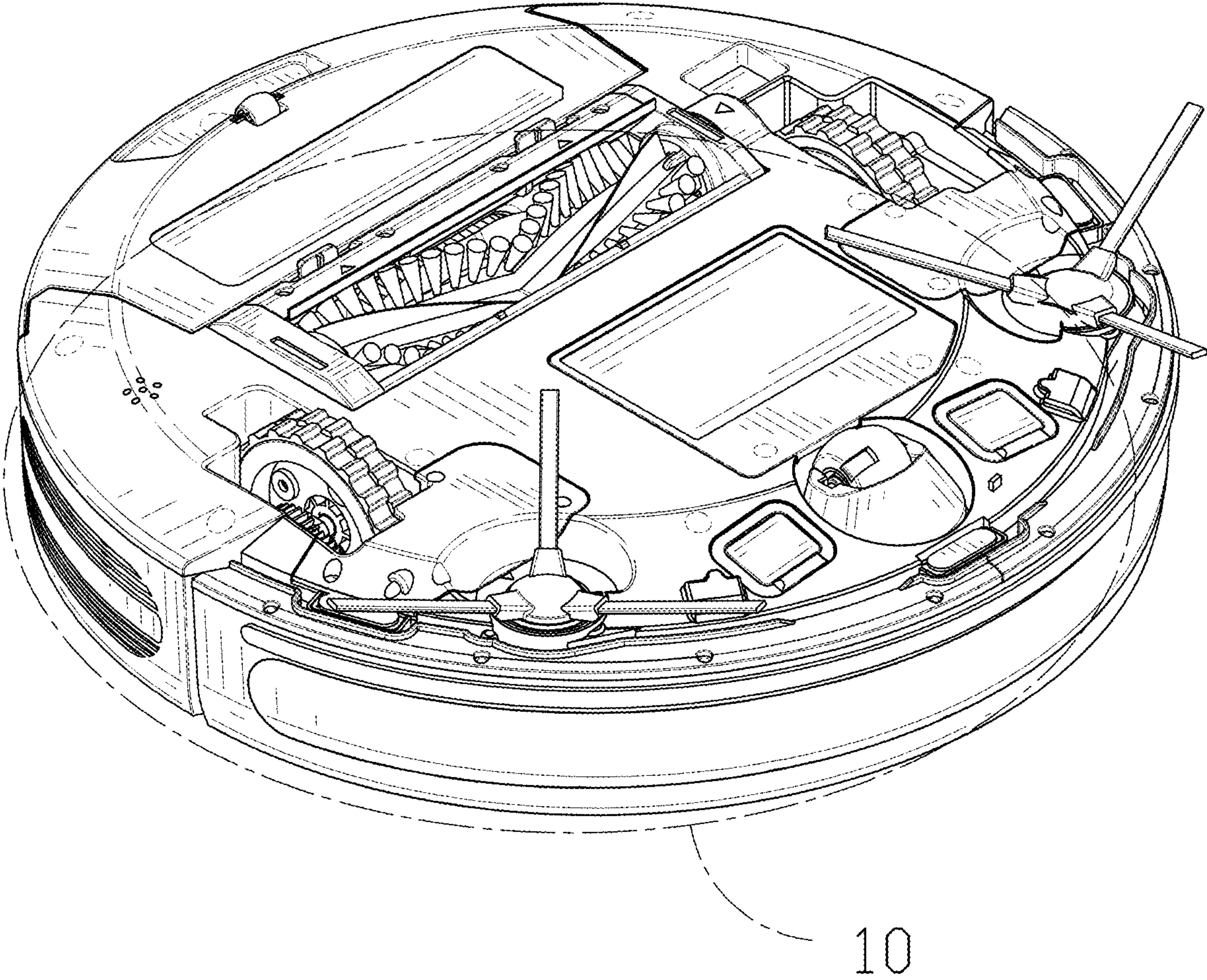


FIG. 2

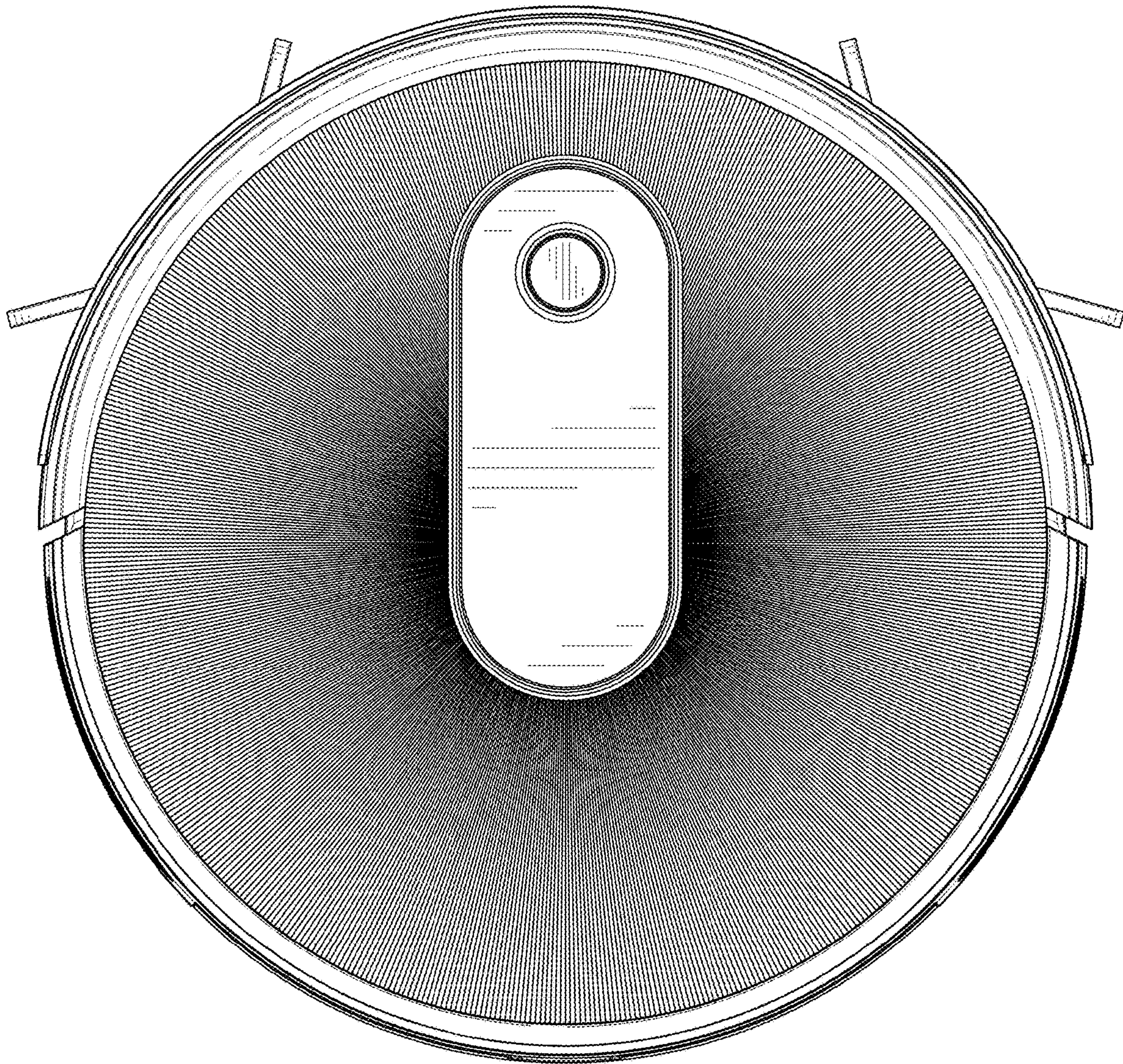


FIG. 3

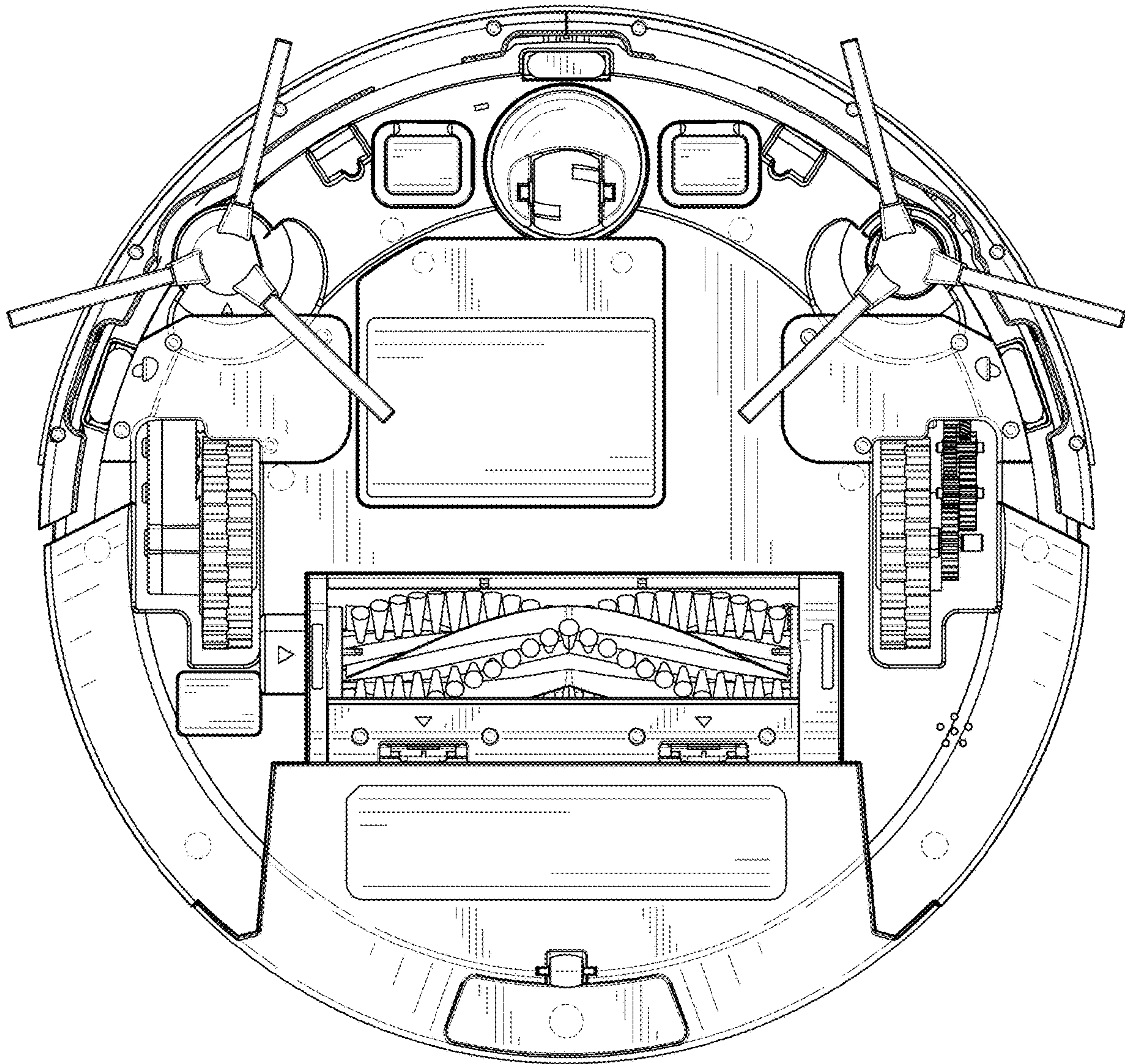


FIG. 4

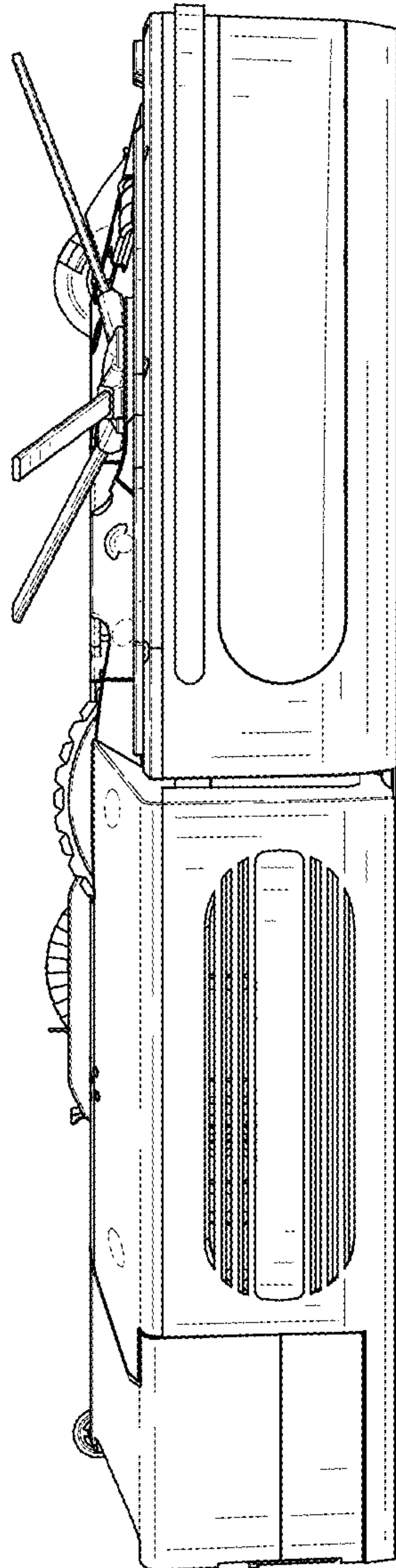


FIG. 5

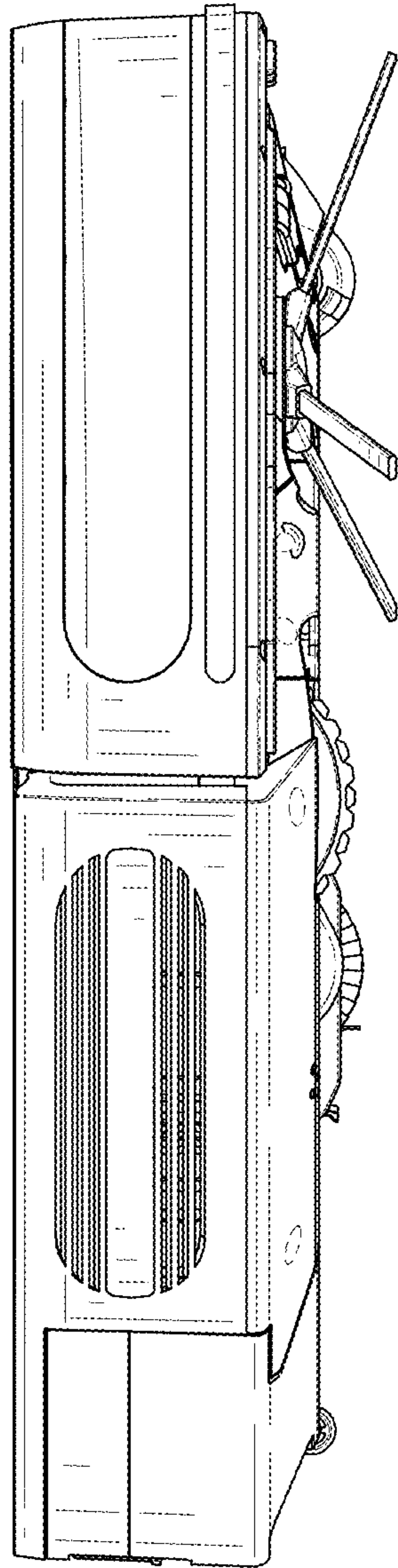


FIG. 6

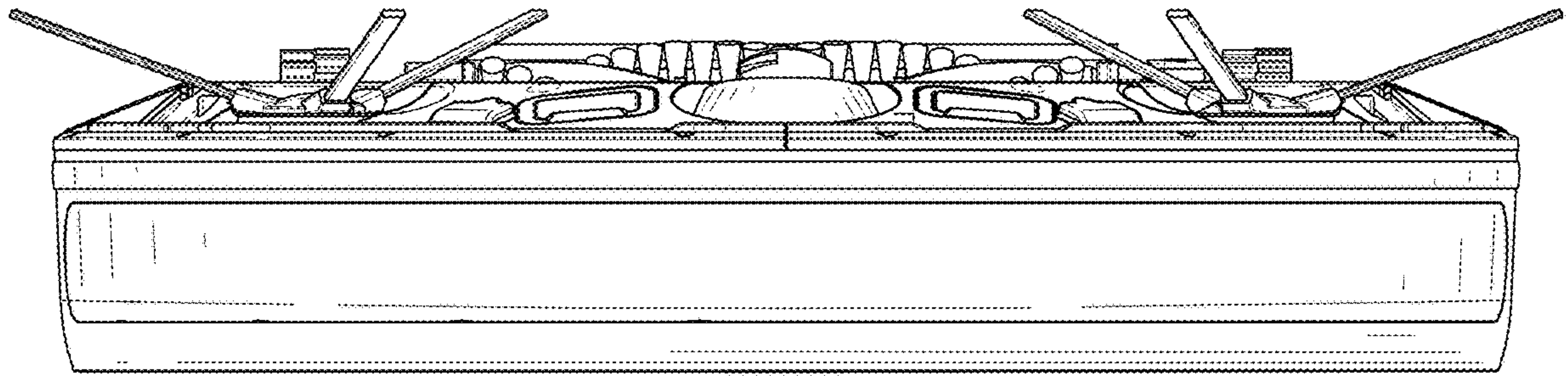


FIG. 7

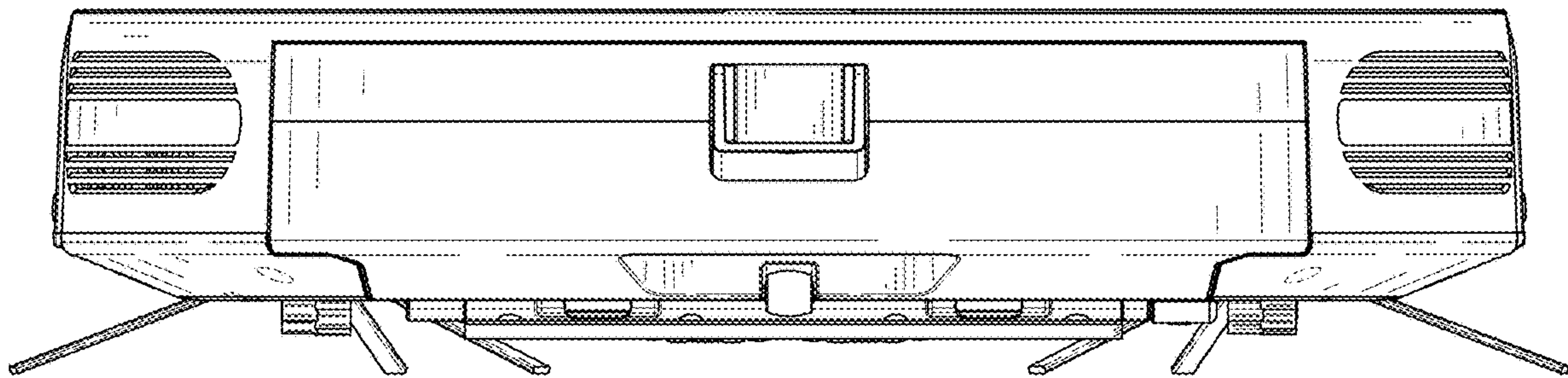


FIG. 8

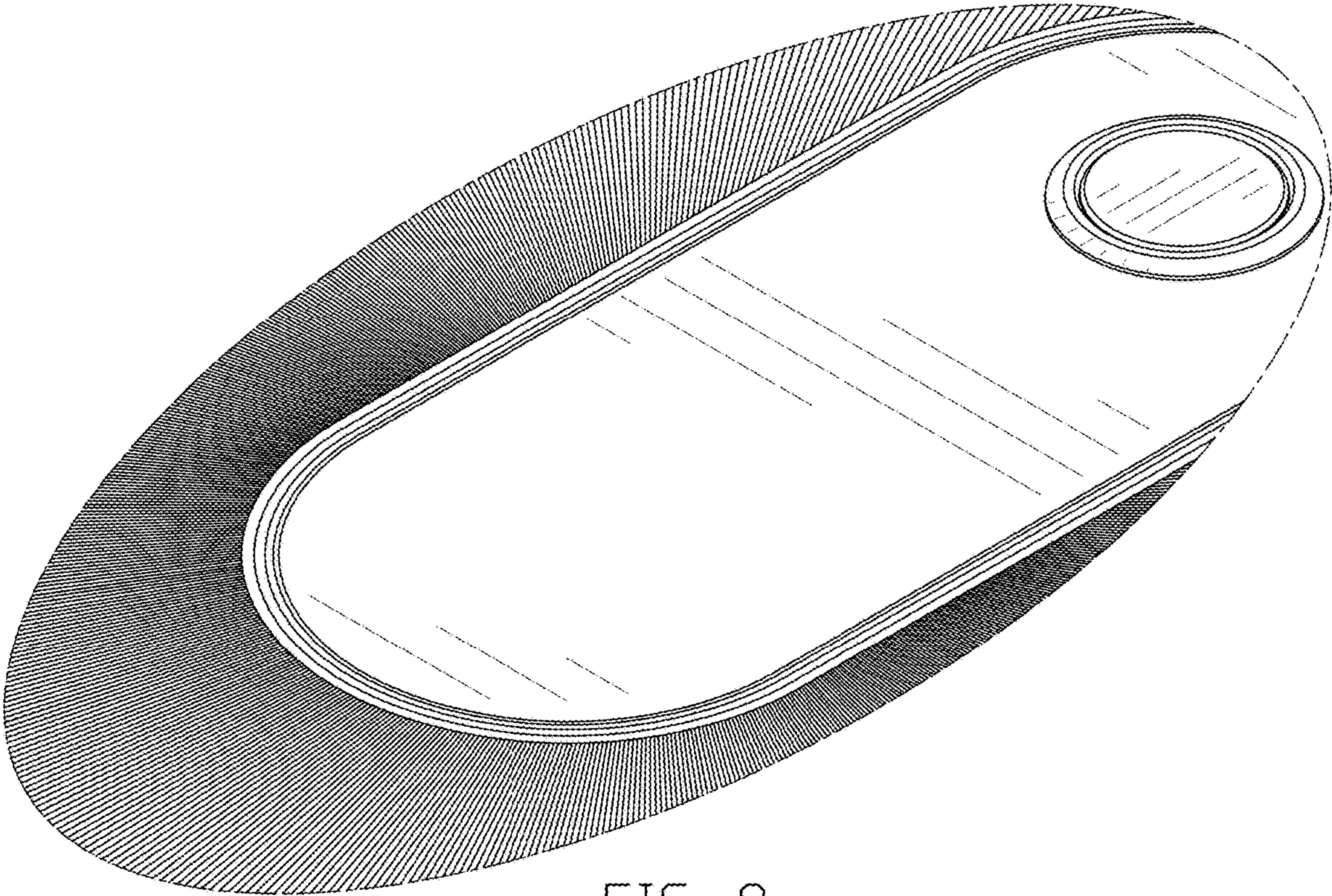


FIG. 9

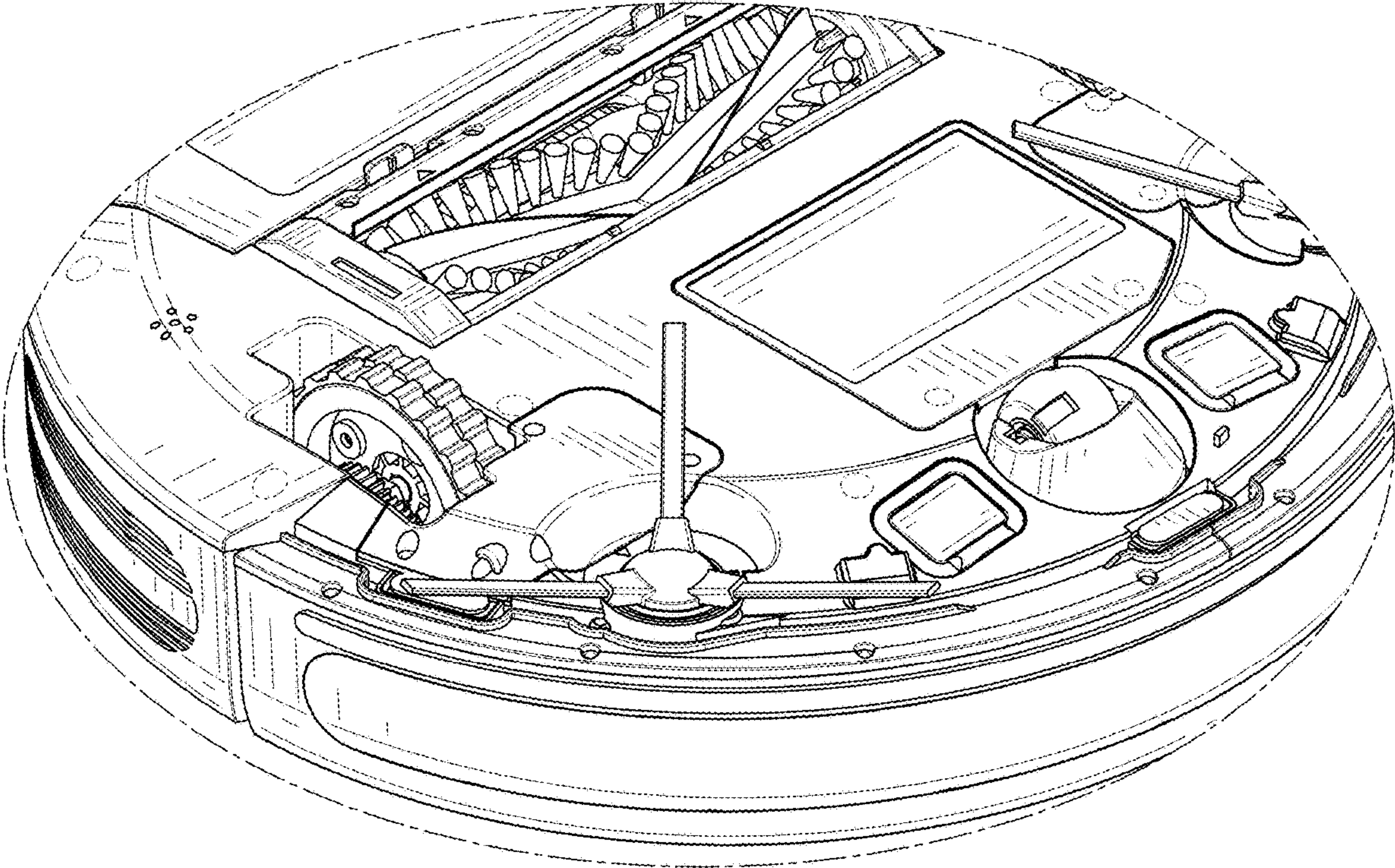


FIG. 10

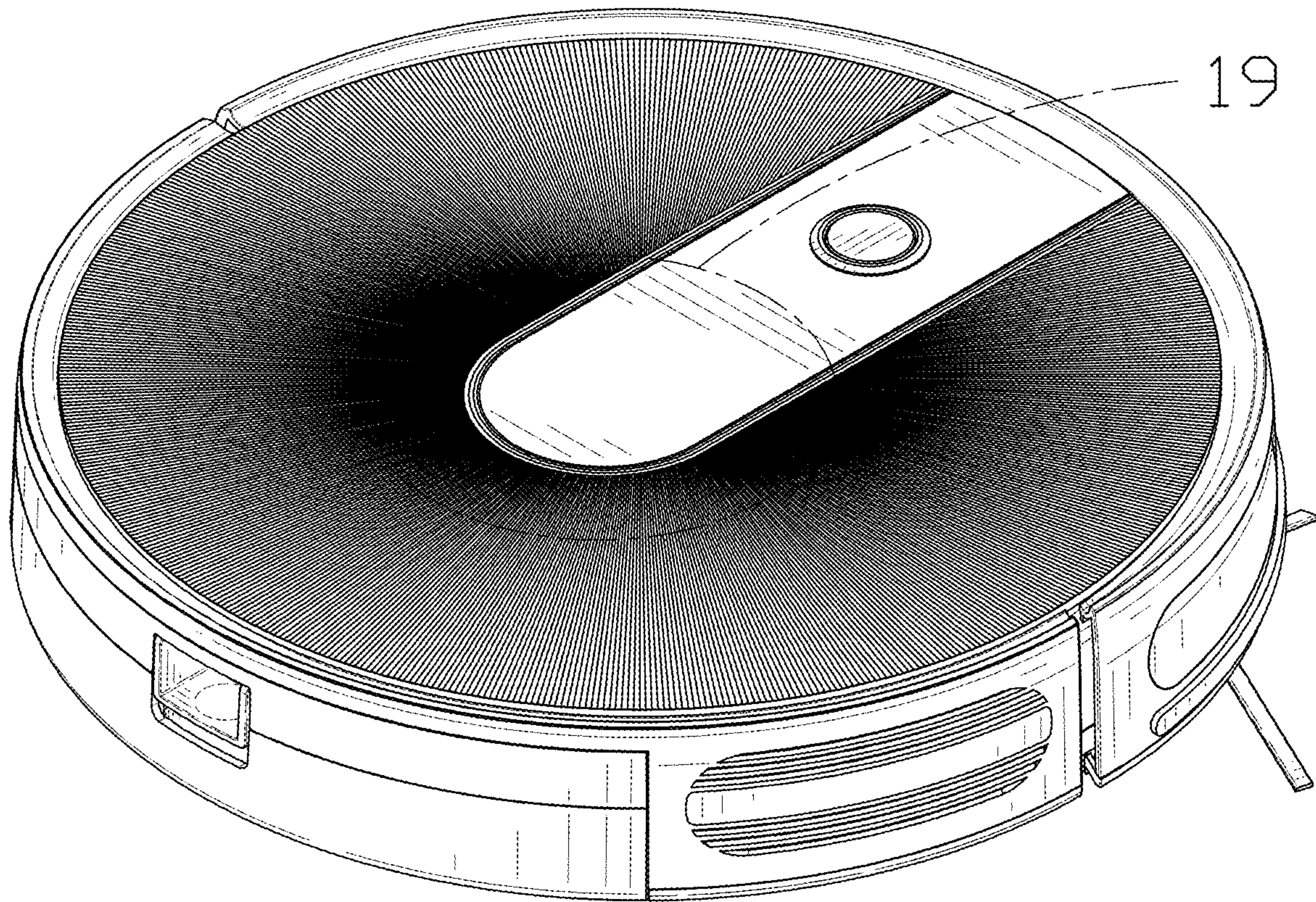


FIG. 11

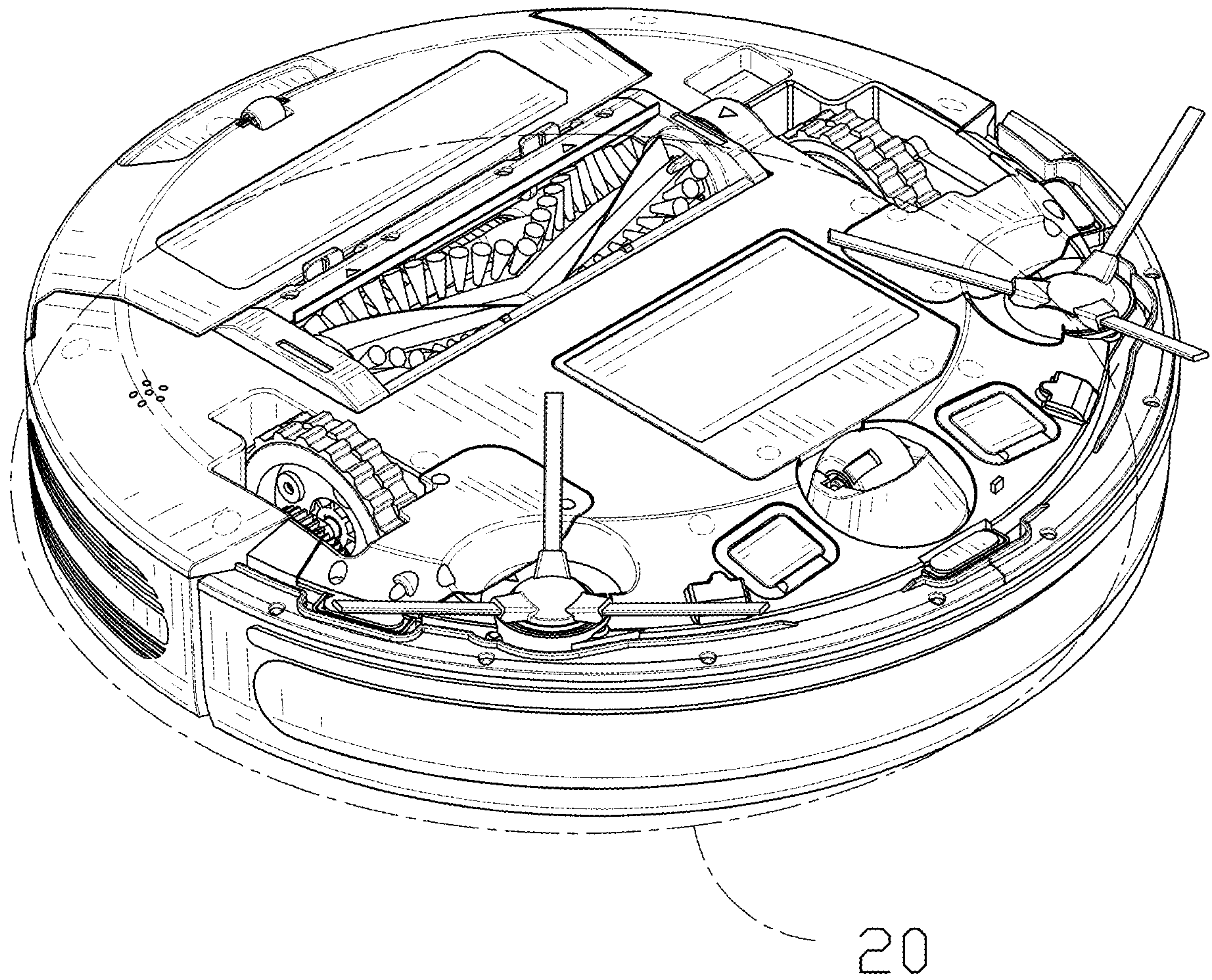


FIG. 12

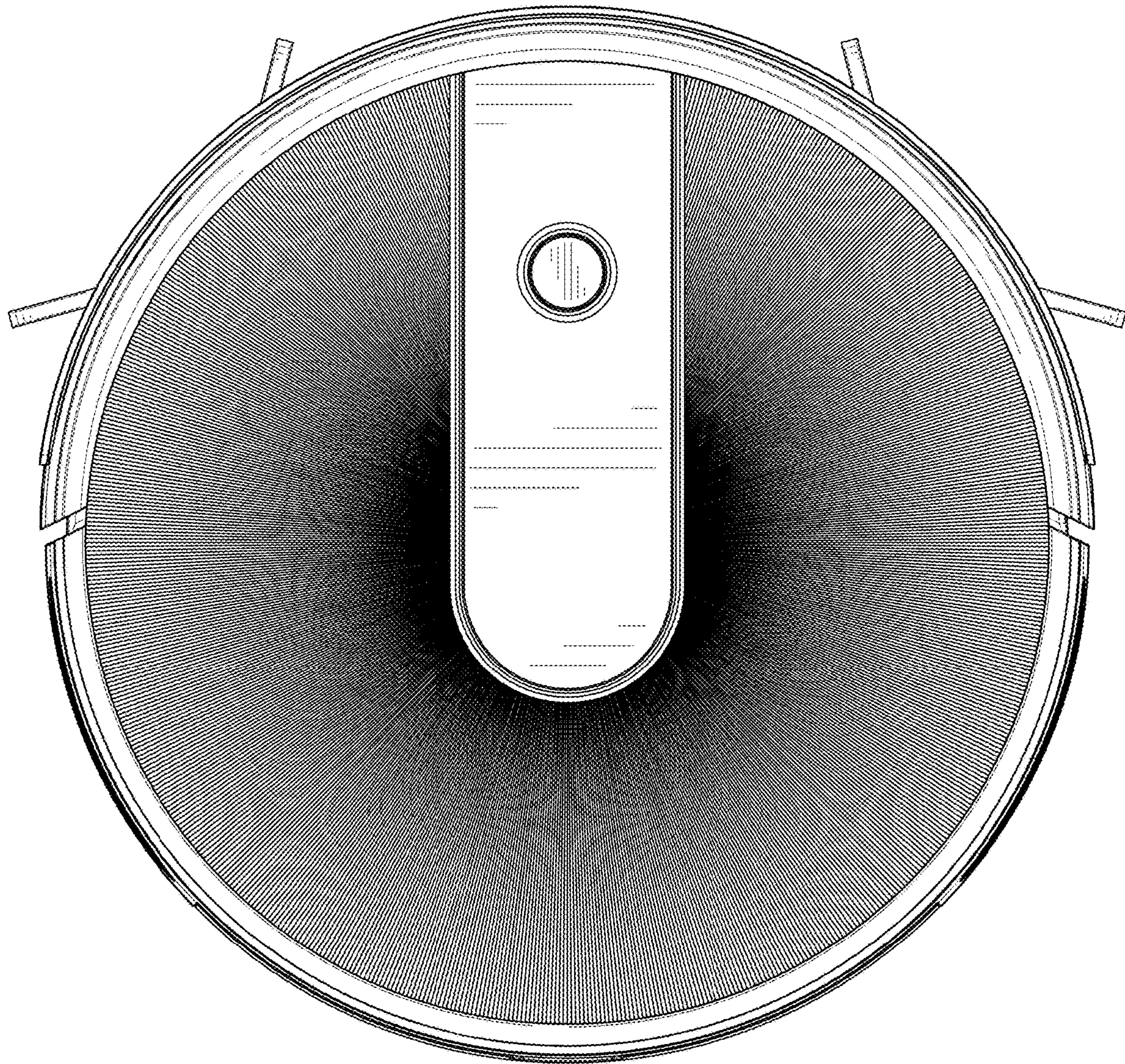


FIG. 13

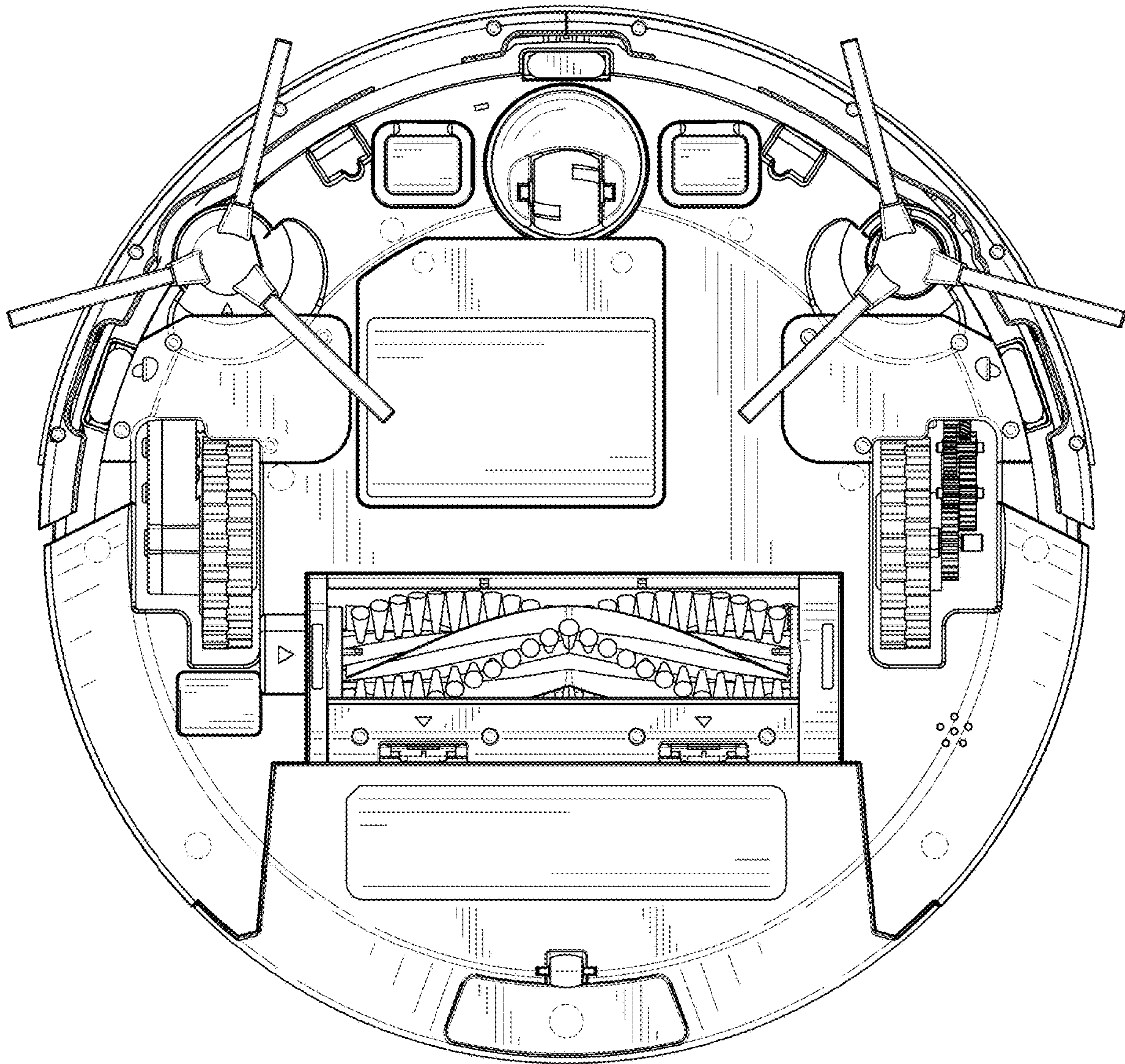


FIG. 14

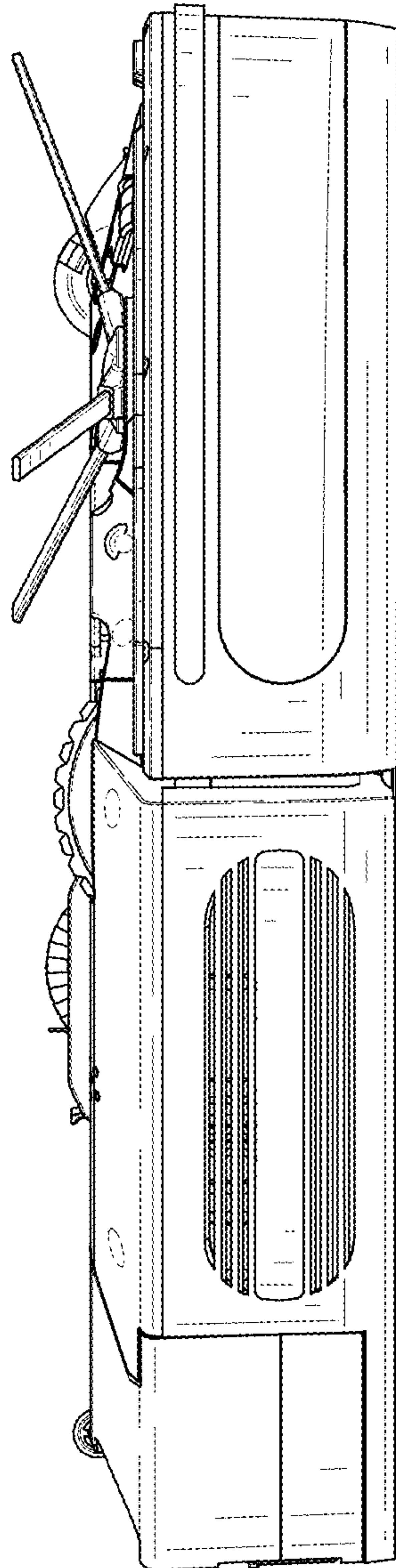


FIG. 15

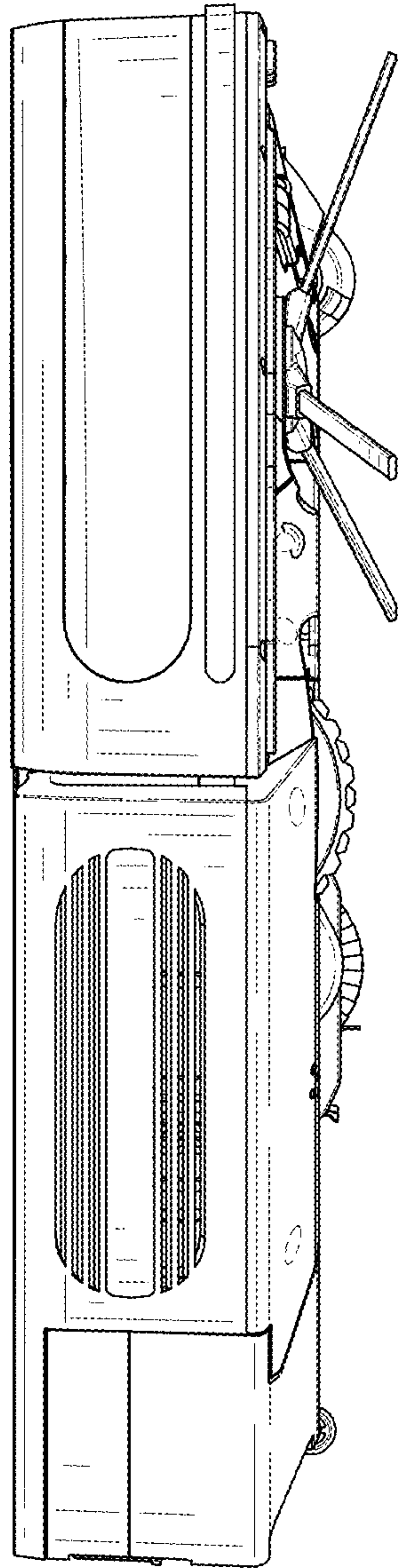


FIG. 16

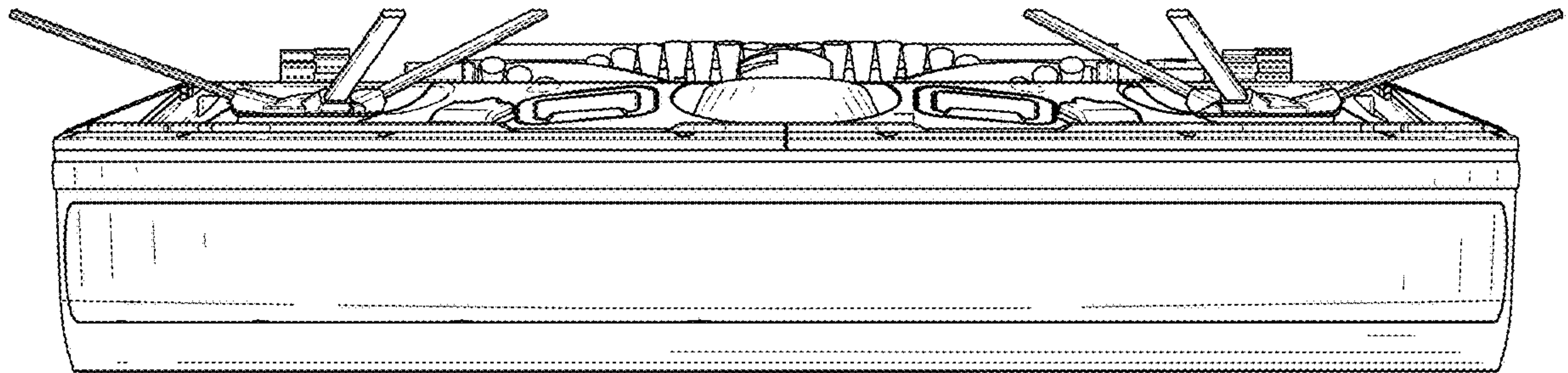


FIG. 17

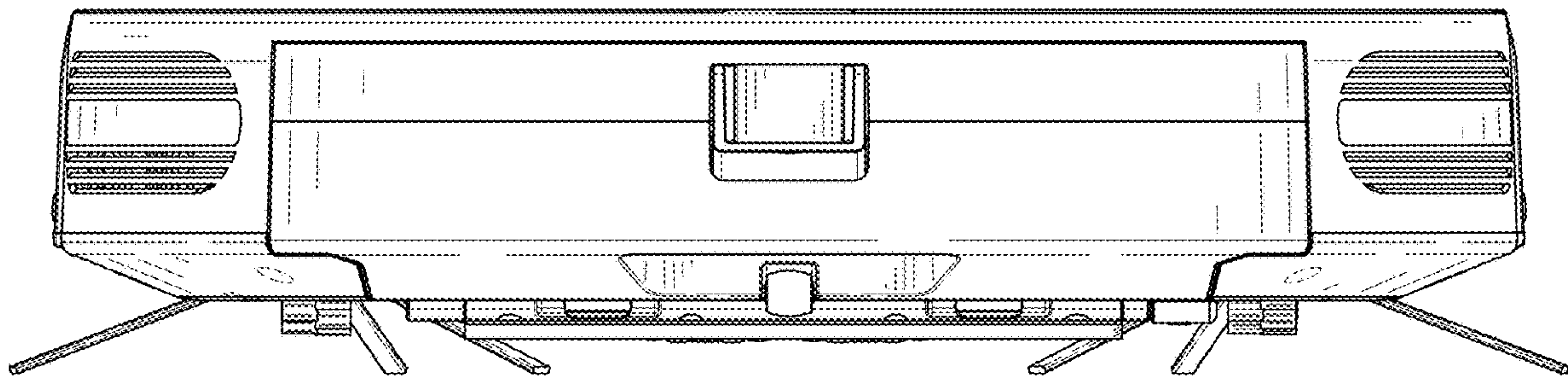


FIG. 18

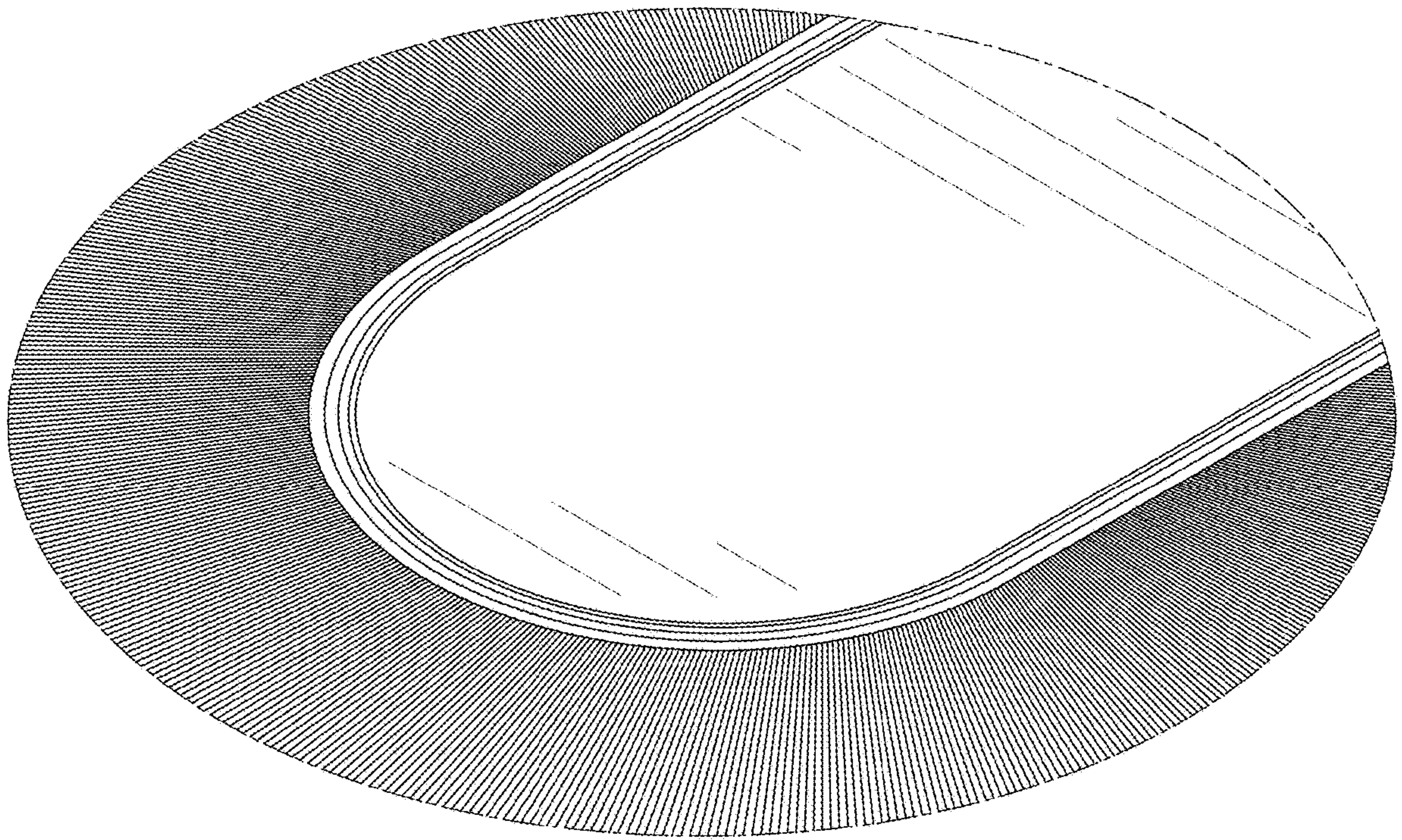


FIG. 19

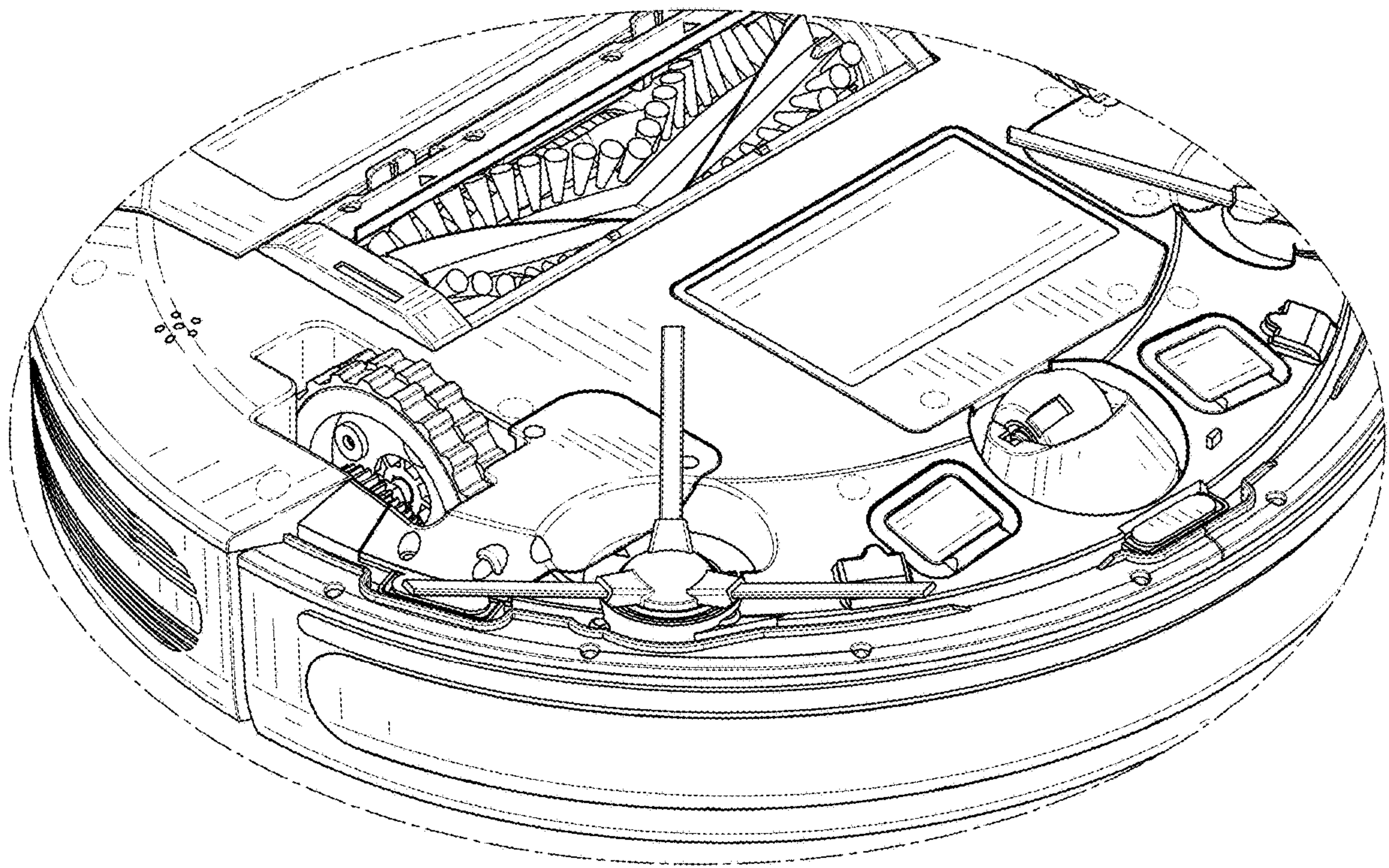


FIG. 20