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(12) **United States Design Patent** (10) **Patent No.:** **US D970,132 S**
Chen (45) **Date of Patent:** **** Nov. 15, 2022**

(54) **VACUUM CLEANER**
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(**) Term: **15 Years**

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(21) Appl. No.: **29/778,881**

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(22) Filed: **Apr. 15, 2021**

(Continued)

(30) **Foreign Application Priority Data**

Feb. 4, 2021 (CN) 202130082654.4

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

(52) **U.S. Cl.**
USPC **D32/18**

(58) **Field of Classification Search**
USPC D32/17, 18, 21, 23, 25, 31, 32, 33, 34
CPC A47L 11/24; A47L 11/33; A47L 11/32;
A47L 9/1666; A47L 9/1608; A47L 11/00;
A47L 11/38; A47L 5/24; Y10S 55/03
See application file for complete search history.

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(57) **CLAIM**

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

DESCRIPTION

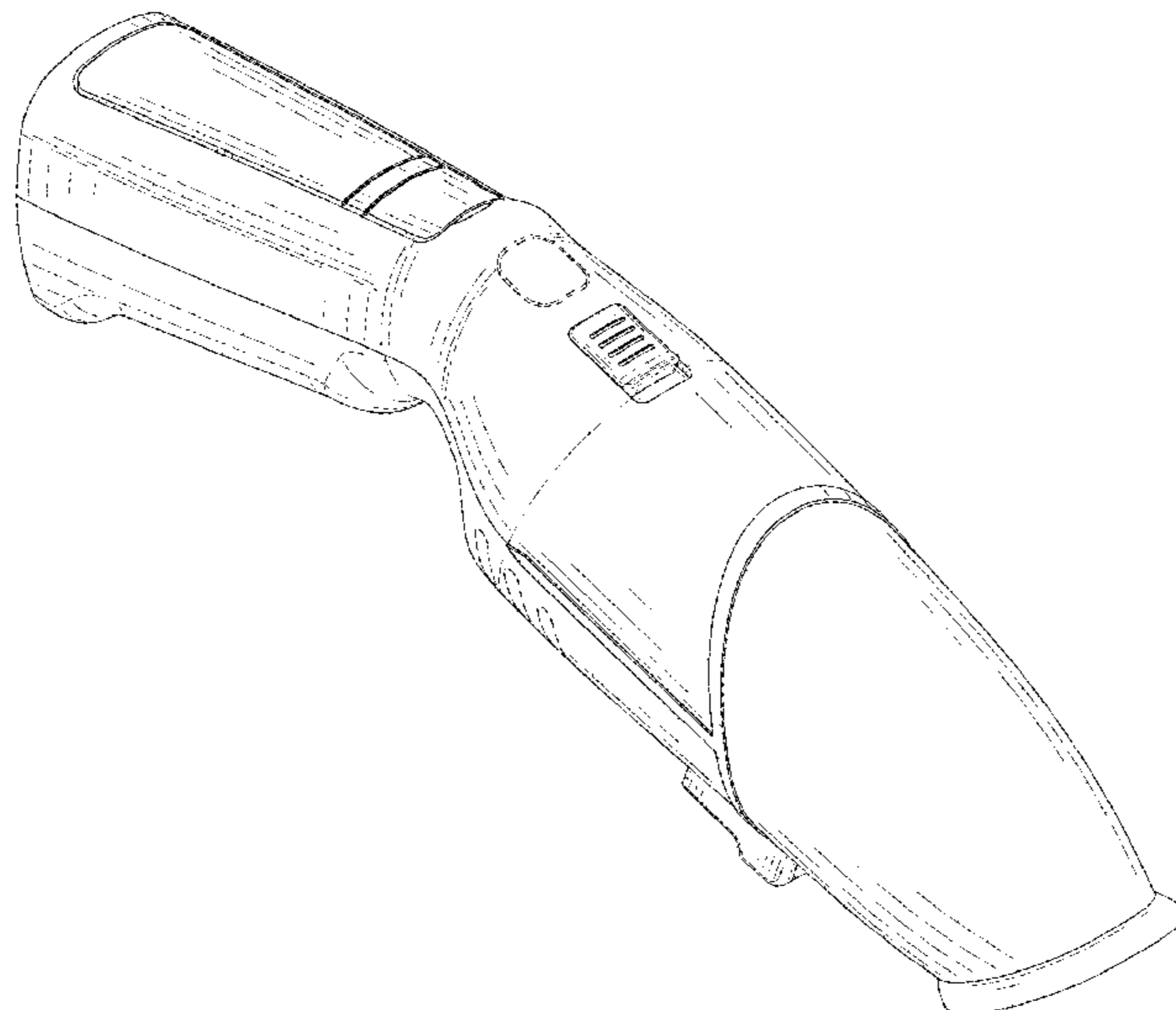
FIG. 1 is a side perspective view of the new design of a vacuum cleaner;
FIG. 2 is another side perspective view thereof;
FIG. 3 is a front elevation view thereof;
FIG. 4 is a rear elevation view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is a top view thereof; and,
FIG. 8 is a bottom view thereof.
The broken (dashed) lines show portions of the vacuum cleaner that form no part of the claimed design.

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1 Claim, 8 Drawing Sheets



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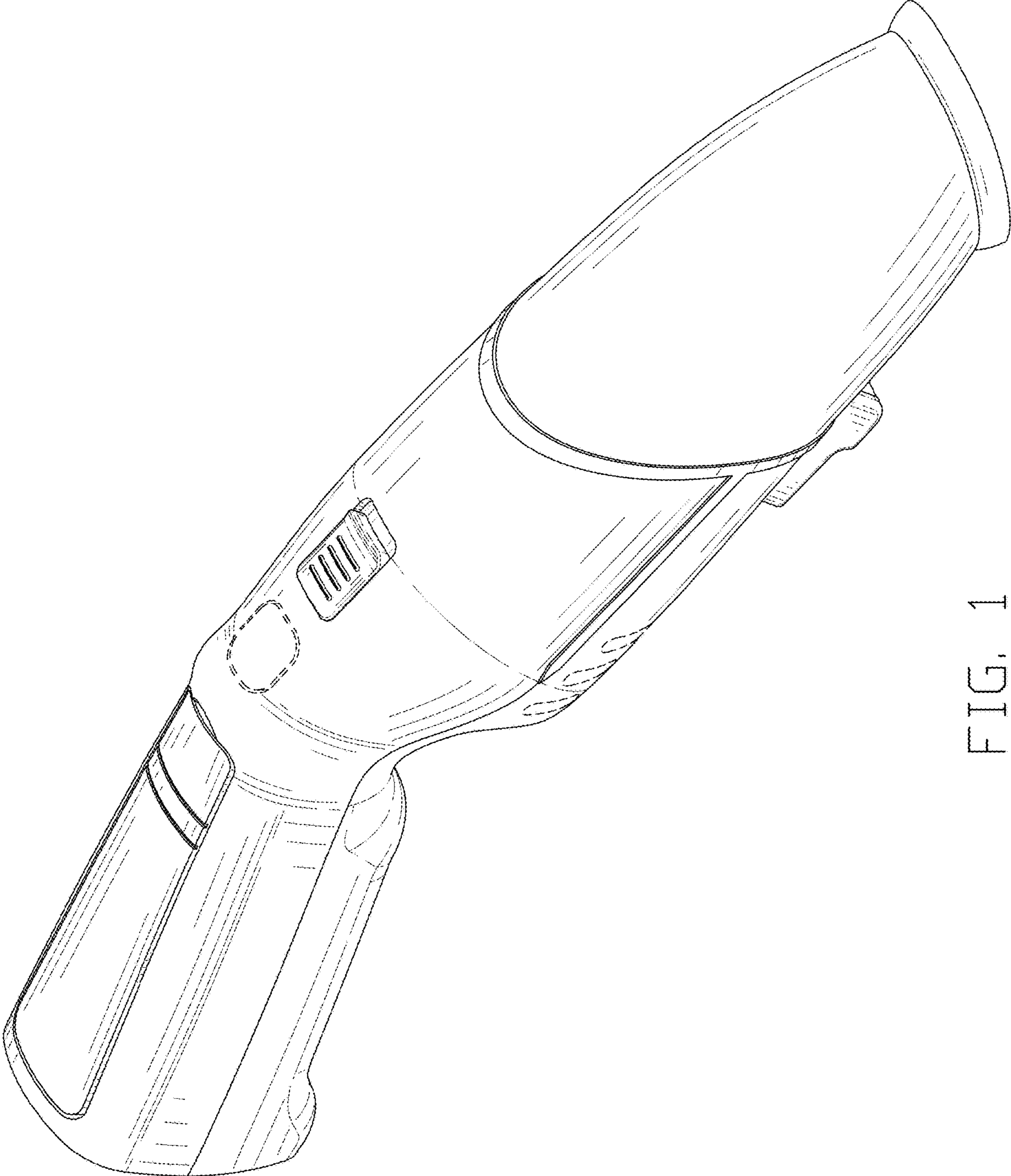


FIG. 1

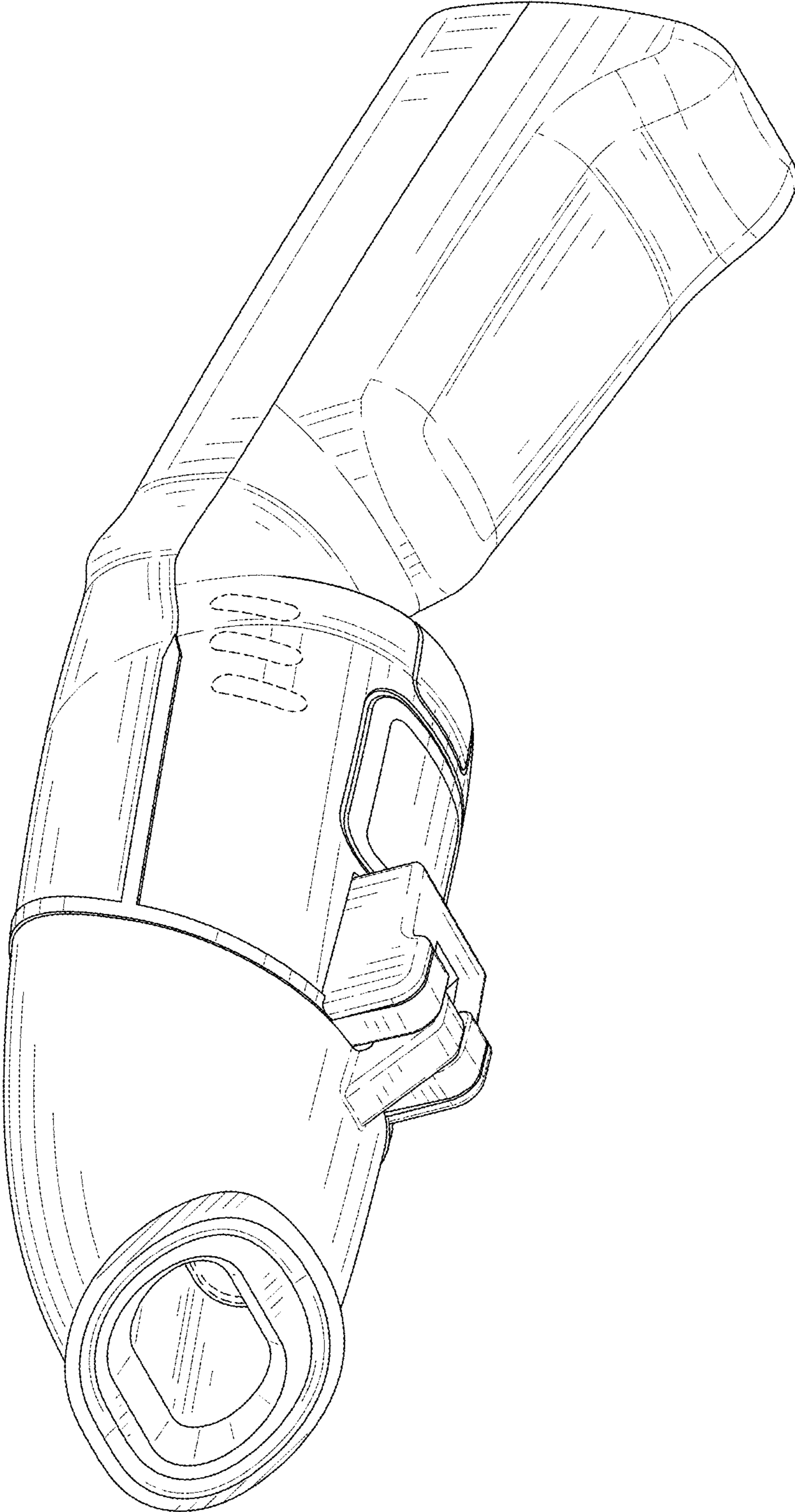


FIG. 2

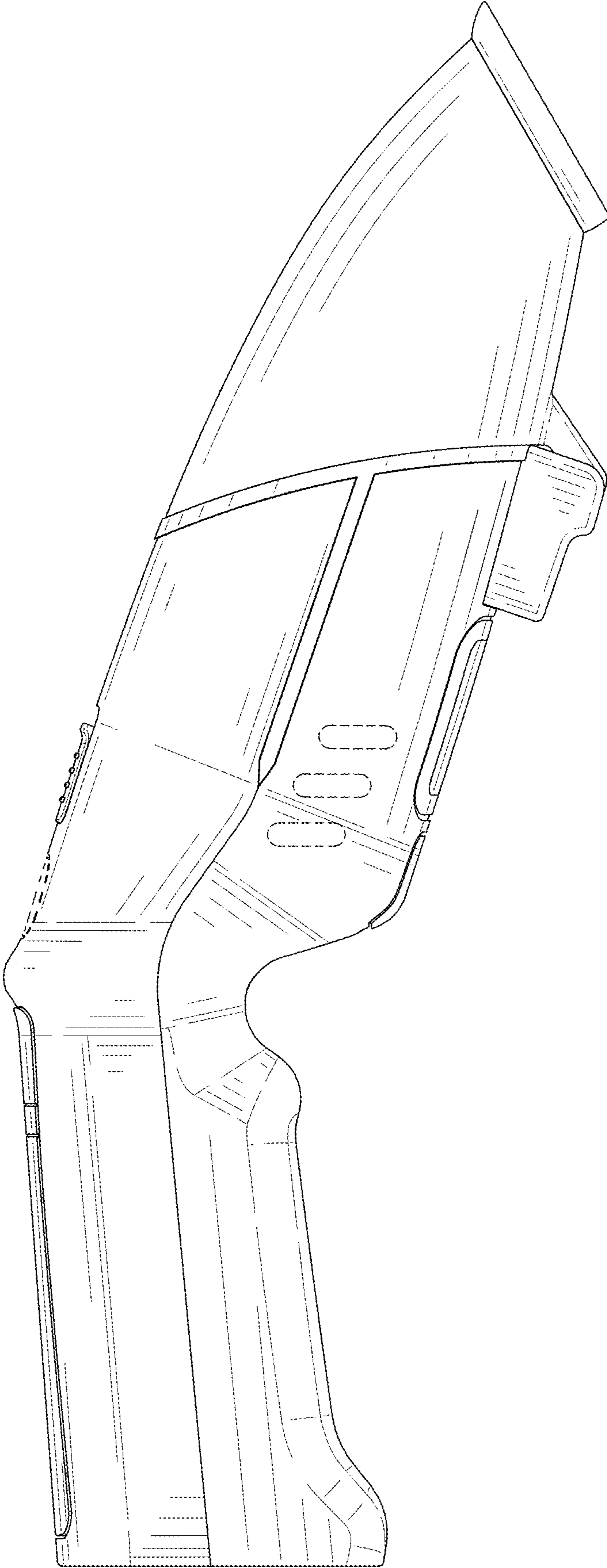


FIG. 3

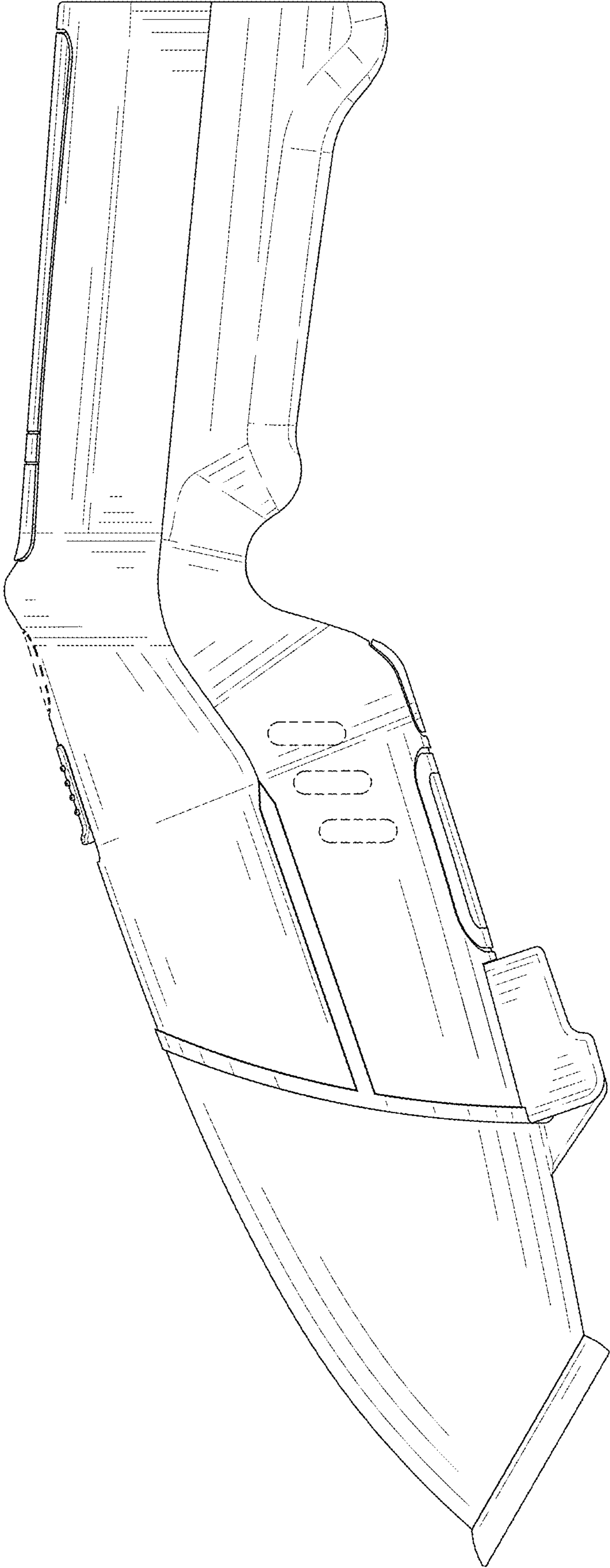


FIG. 4

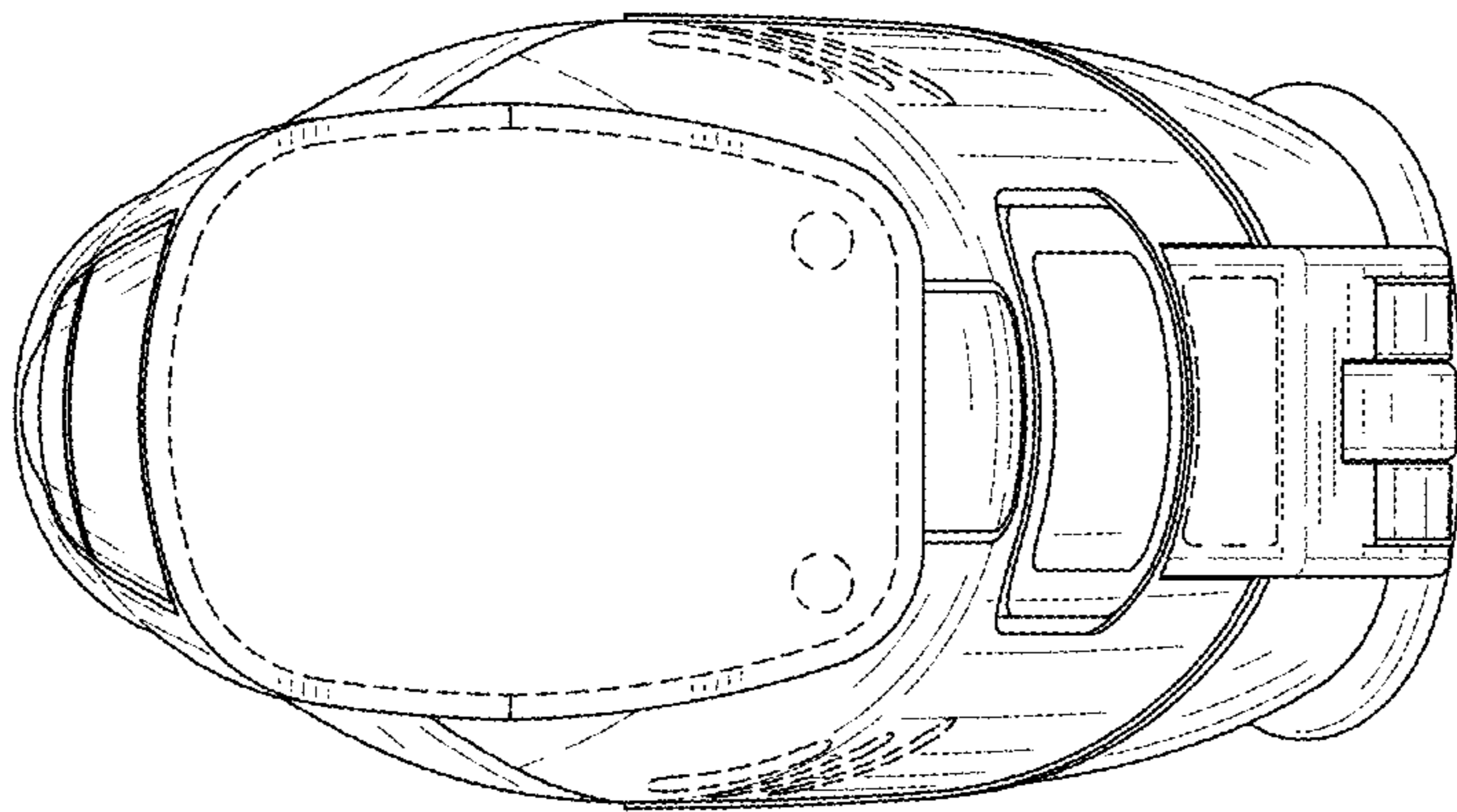


FIG. 5

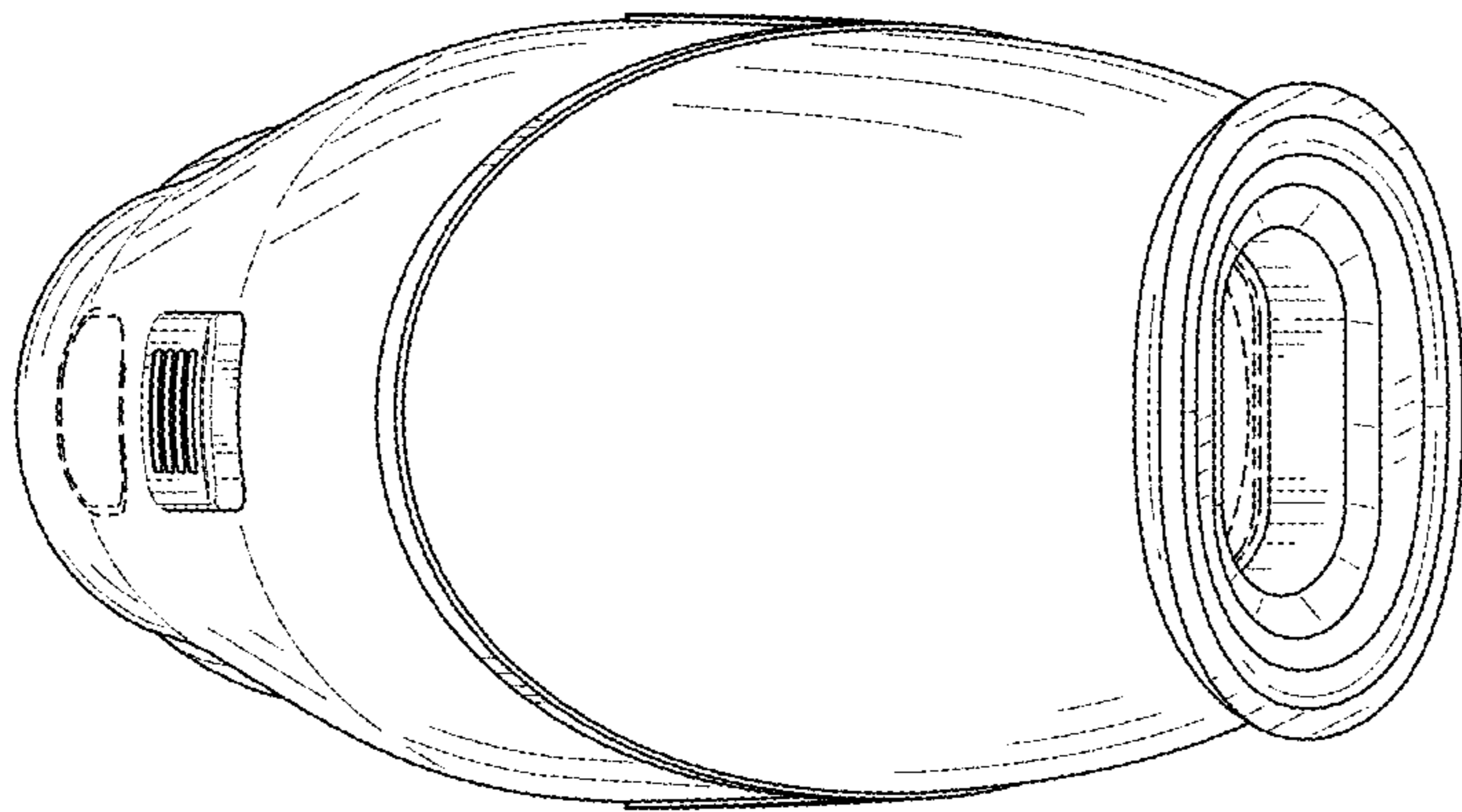


FIG. 6

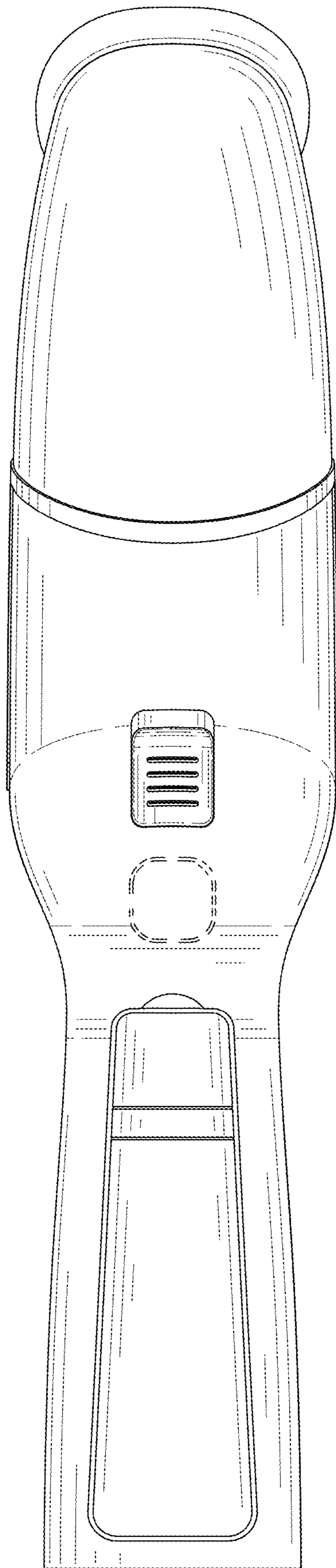


FIG. 7

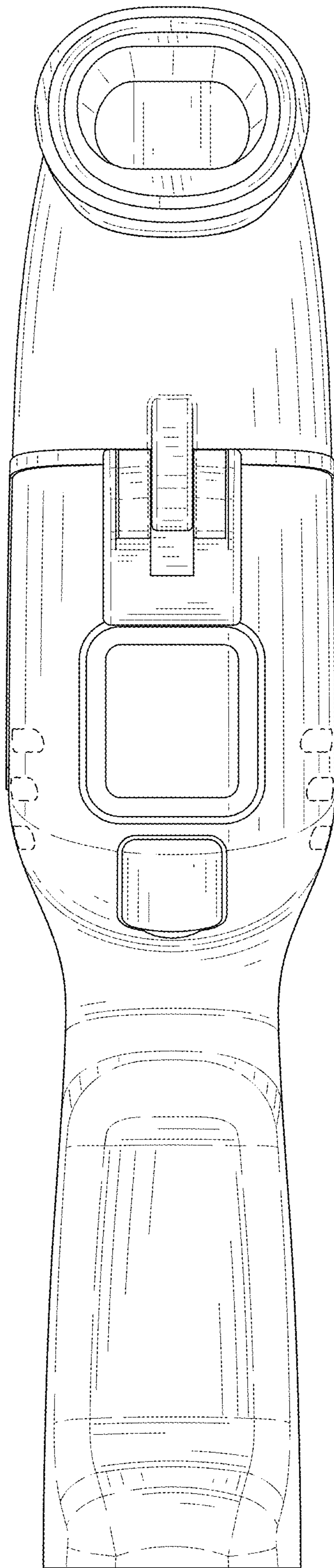


FIG. 8