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

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(54) **VACUUM CLEANER**

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

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(51) **LOC (12) Cl.** **15-05**

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

(58) **Field of Classification Search**

USPC D32/17-18, 22, 31, 34
CPC A47L 5/24; A47L 5/26; A47L 5/28; A47L 9/322; A47L 9/325; A47L 9/327; A47L 11/4075

See application file for complete search history.

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(57) **CLAIM**

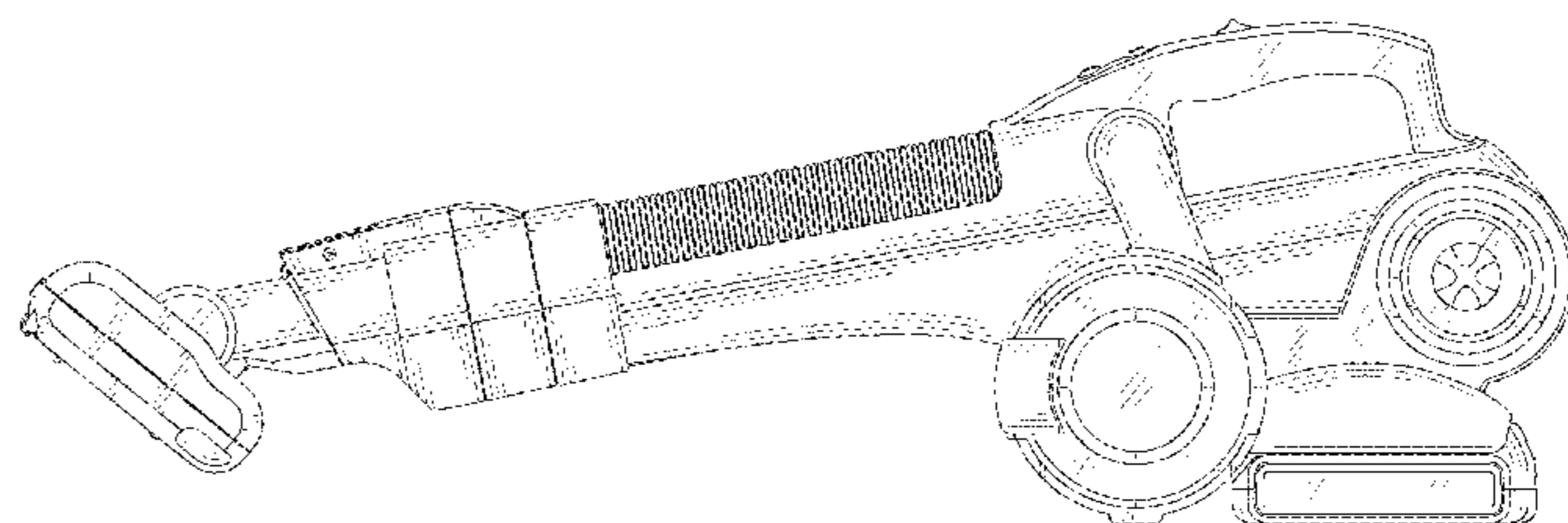
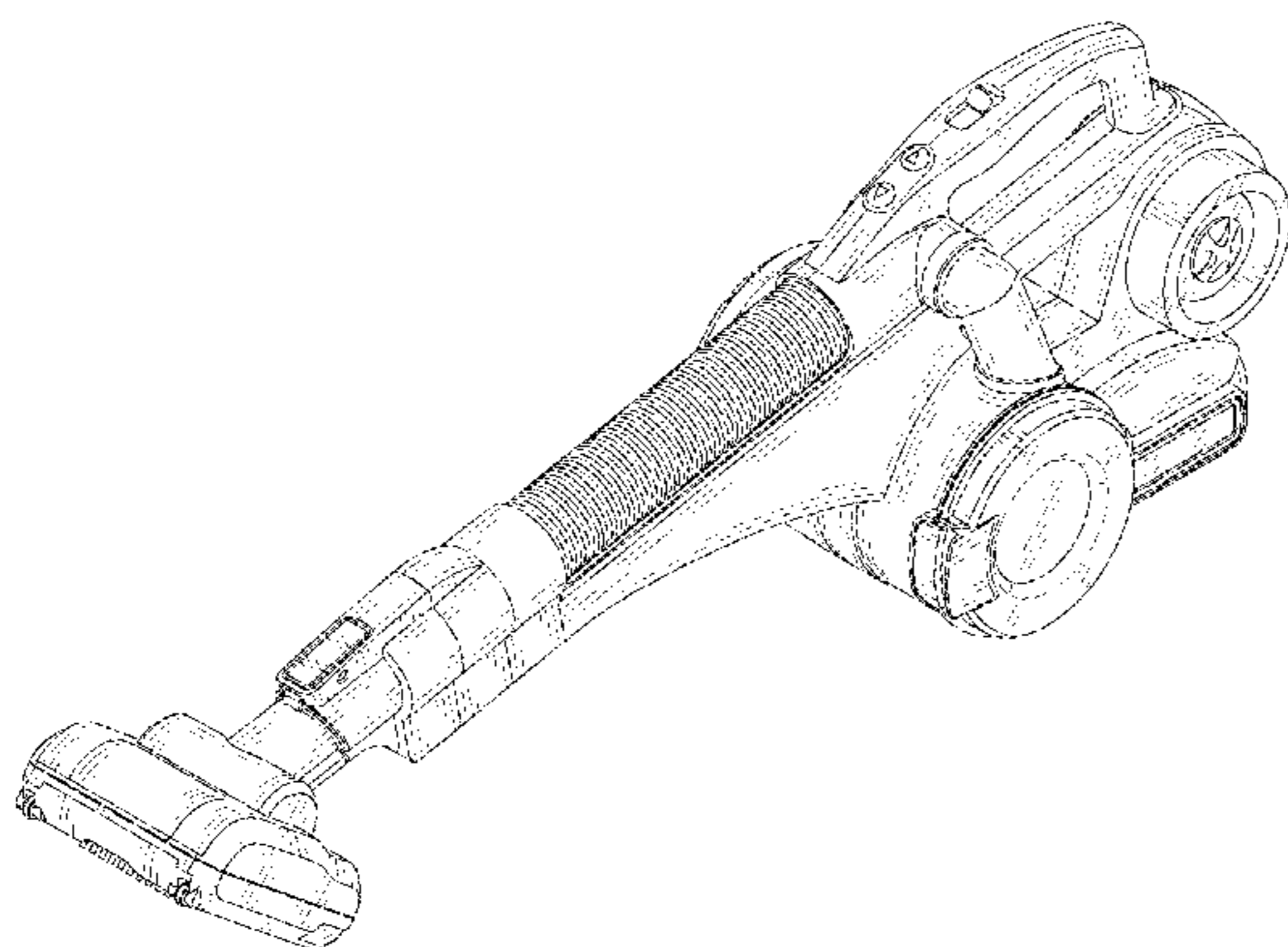
The ornamental design for a vacuum cleaner, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the vacuum cleaner; FIG. 2 is a front elevational view of the vacuum cleaner; FIG. 3 is a rear elevational view of the vacuum cleaner; FIG. 4 is a left side elevational view of the vacuum cleaner; FIG. 5 is a right side elevational view of the vacuum cleaner; FIG. 6 is a top plan view of the vacuum cleaner; FIG. 7 is a bottom plan view of the vacuum cleaner; FIG. 8 is perspective view of the vacuum cleaner showing the hose in an alternate, extended position; and, FIG. 9 is a portion of FIG. 4 enlarged for magnification purposes.

The dash-dot-dash line used in FIG. 4 indicates the portion being enlarged in FIG. 9.

1 Claim, 9 Drawing Sheets



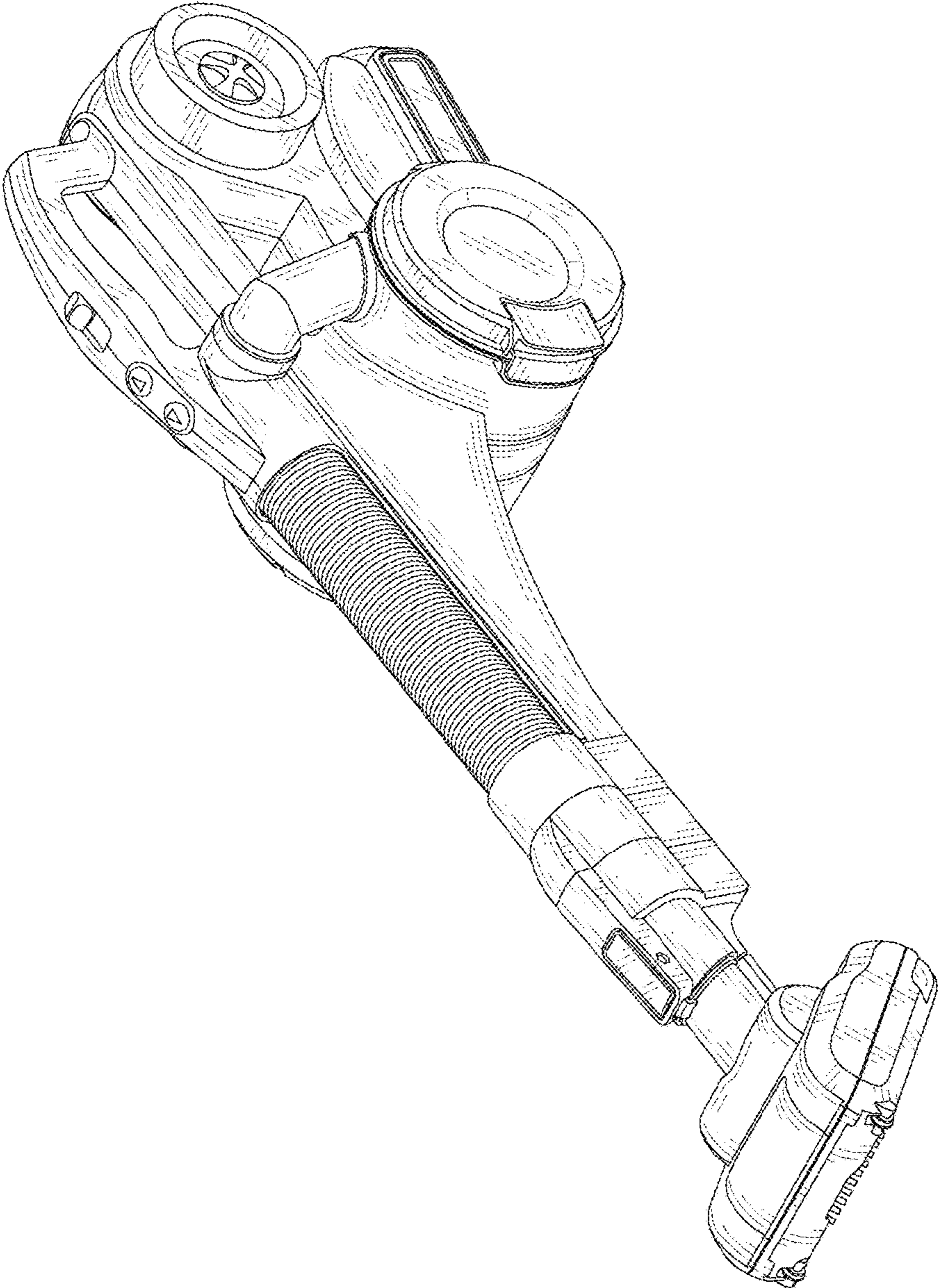


FIG. 1

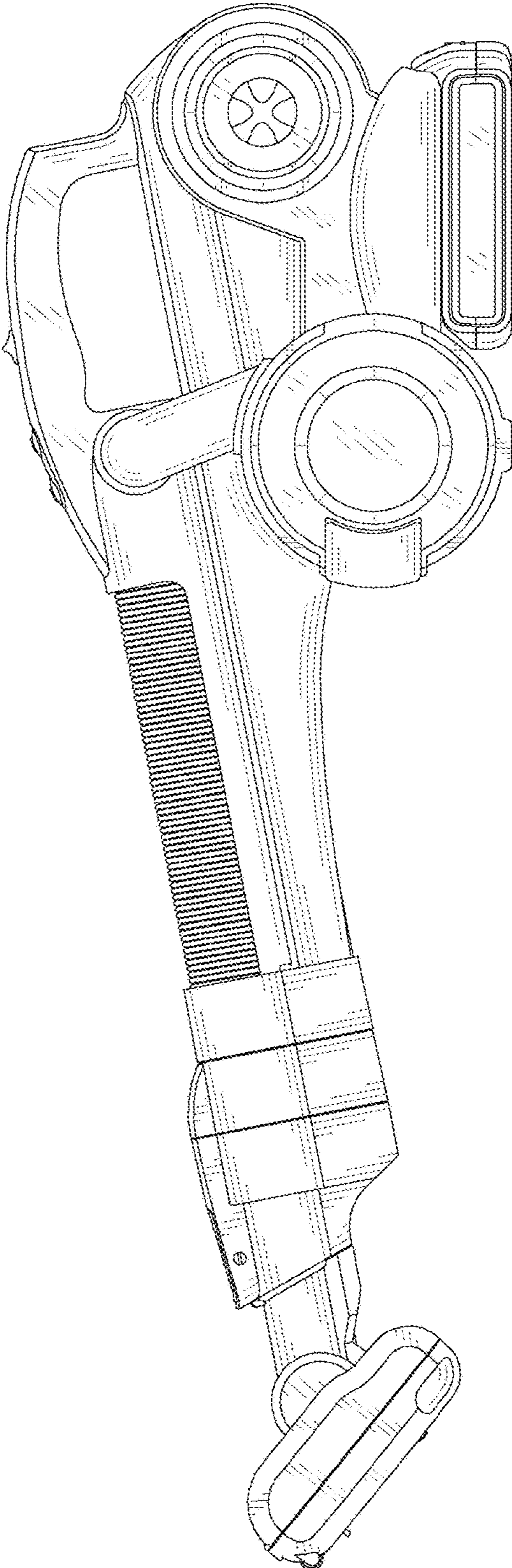


FIG. 2

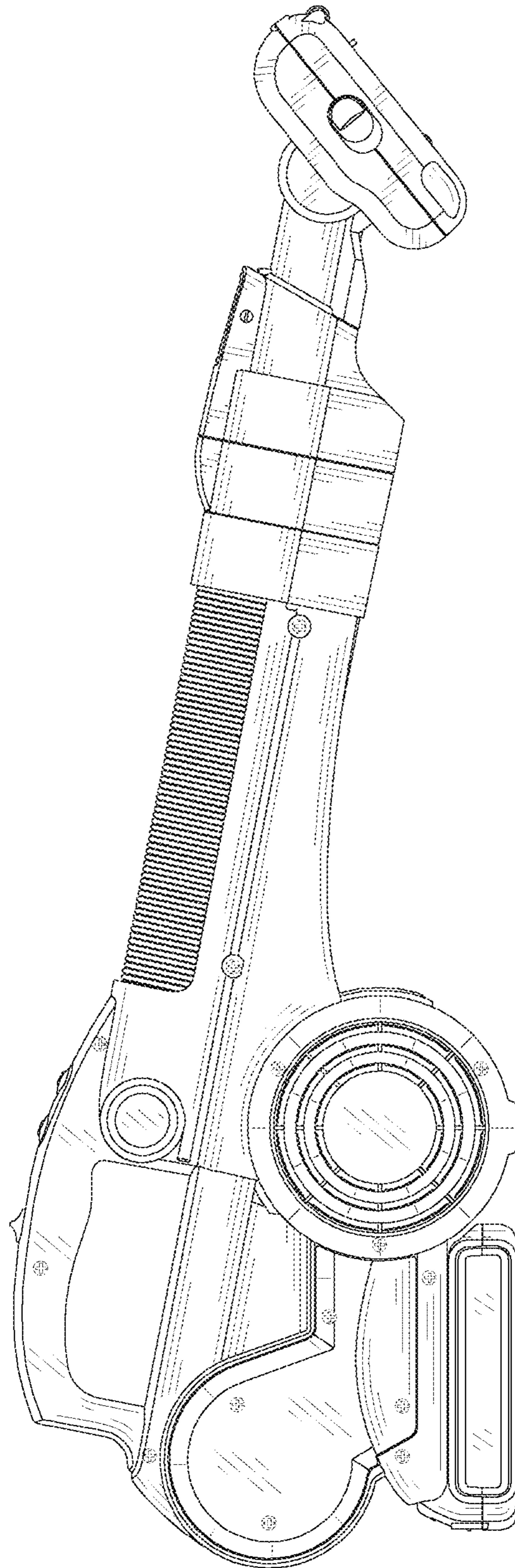


FIG. 3

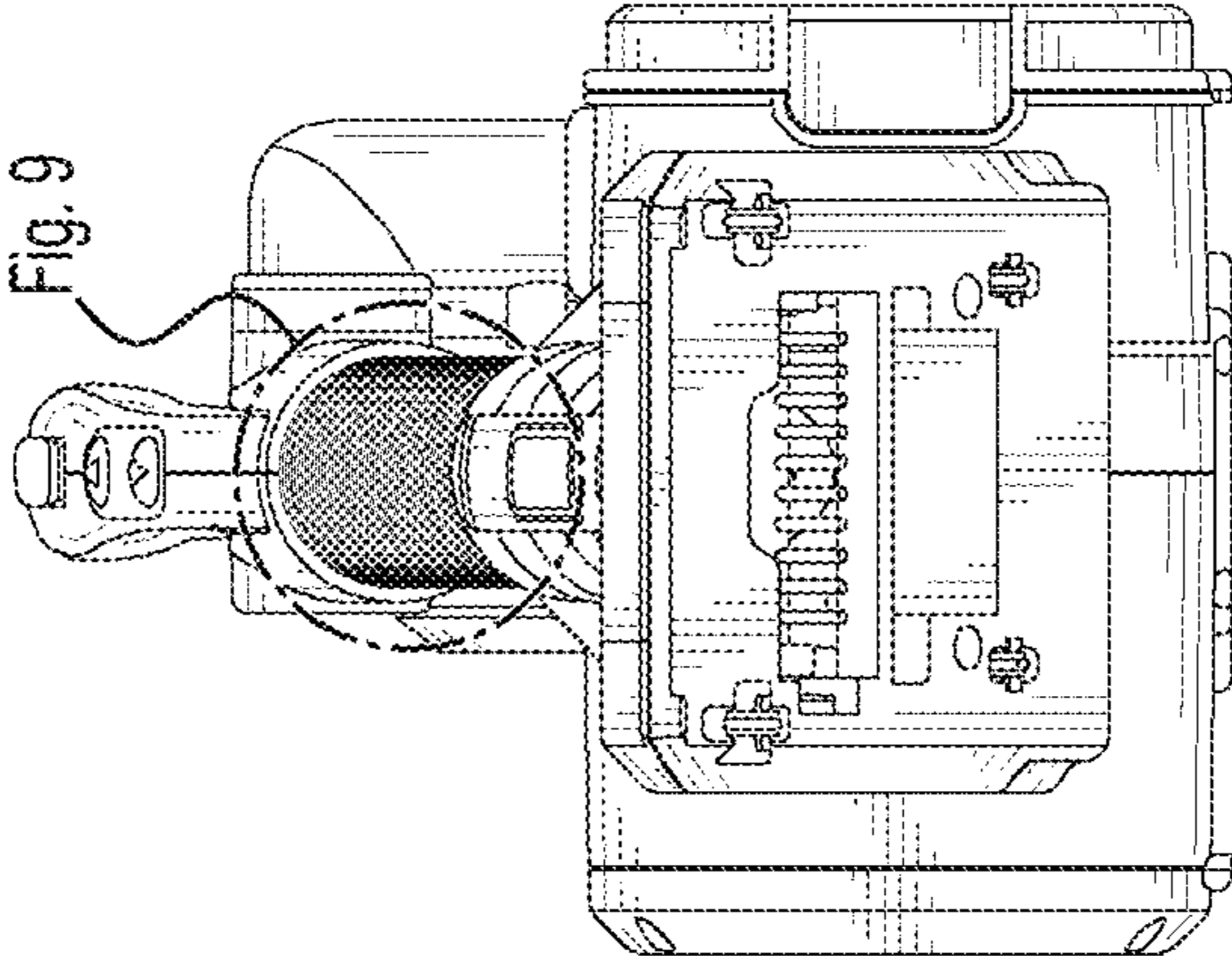


FIG. 4

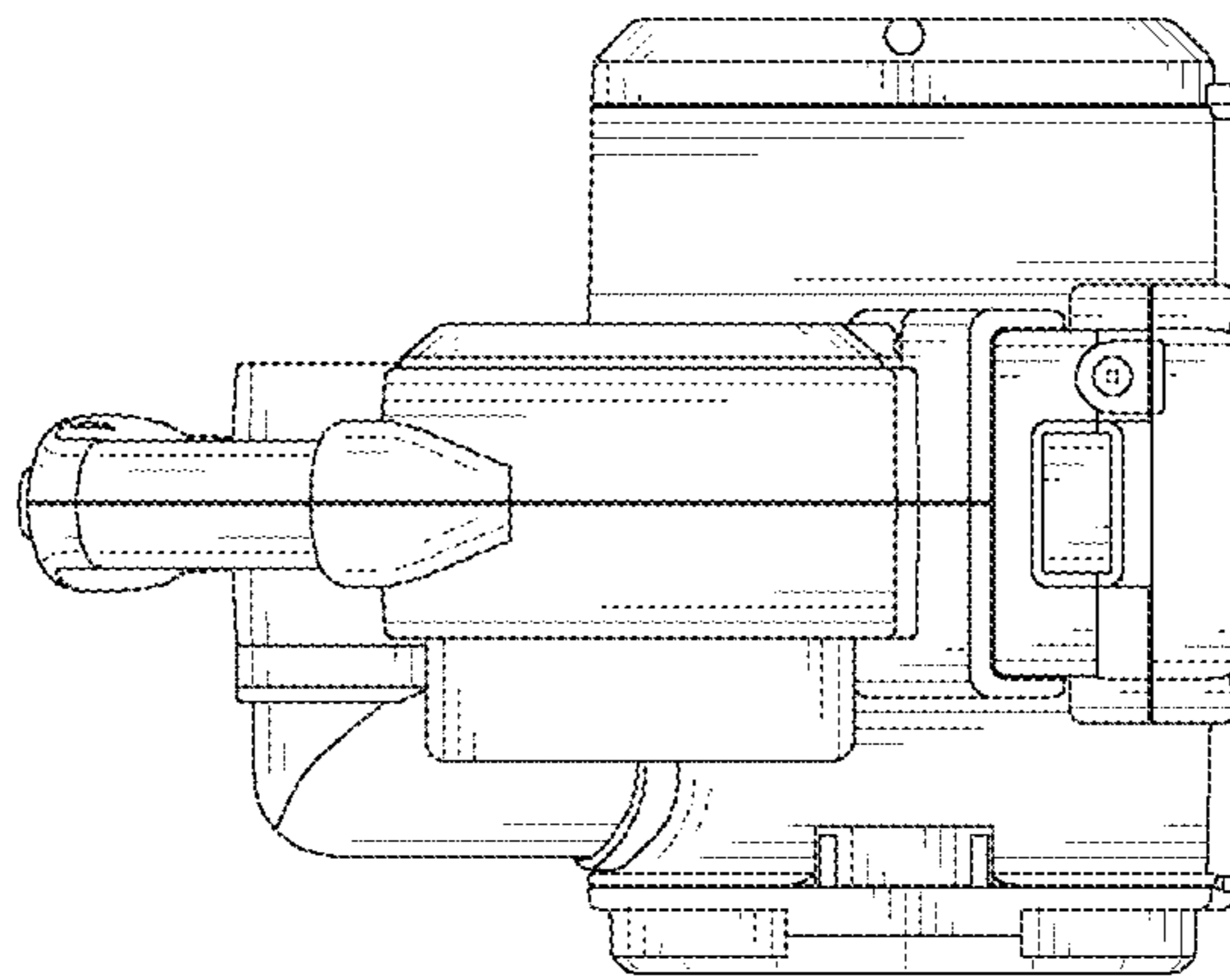


FIG. 5

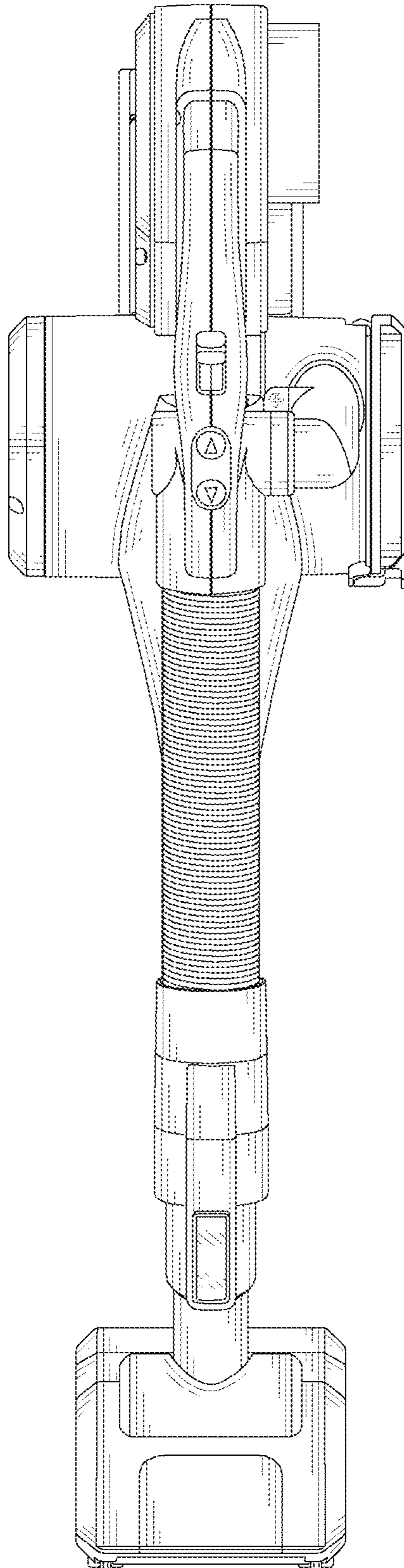


FIG. 6

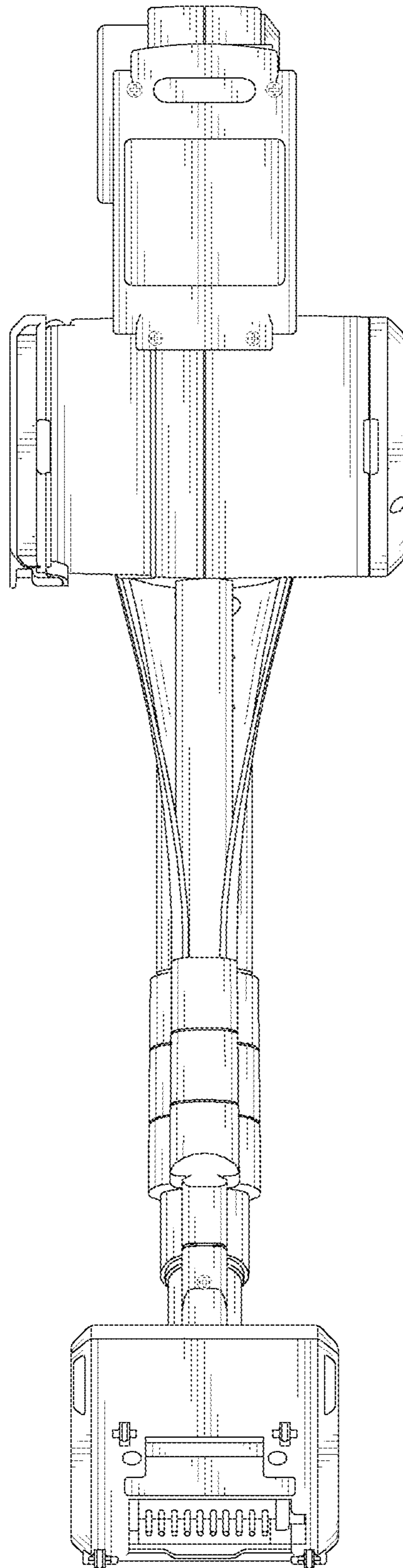


FIG. 7

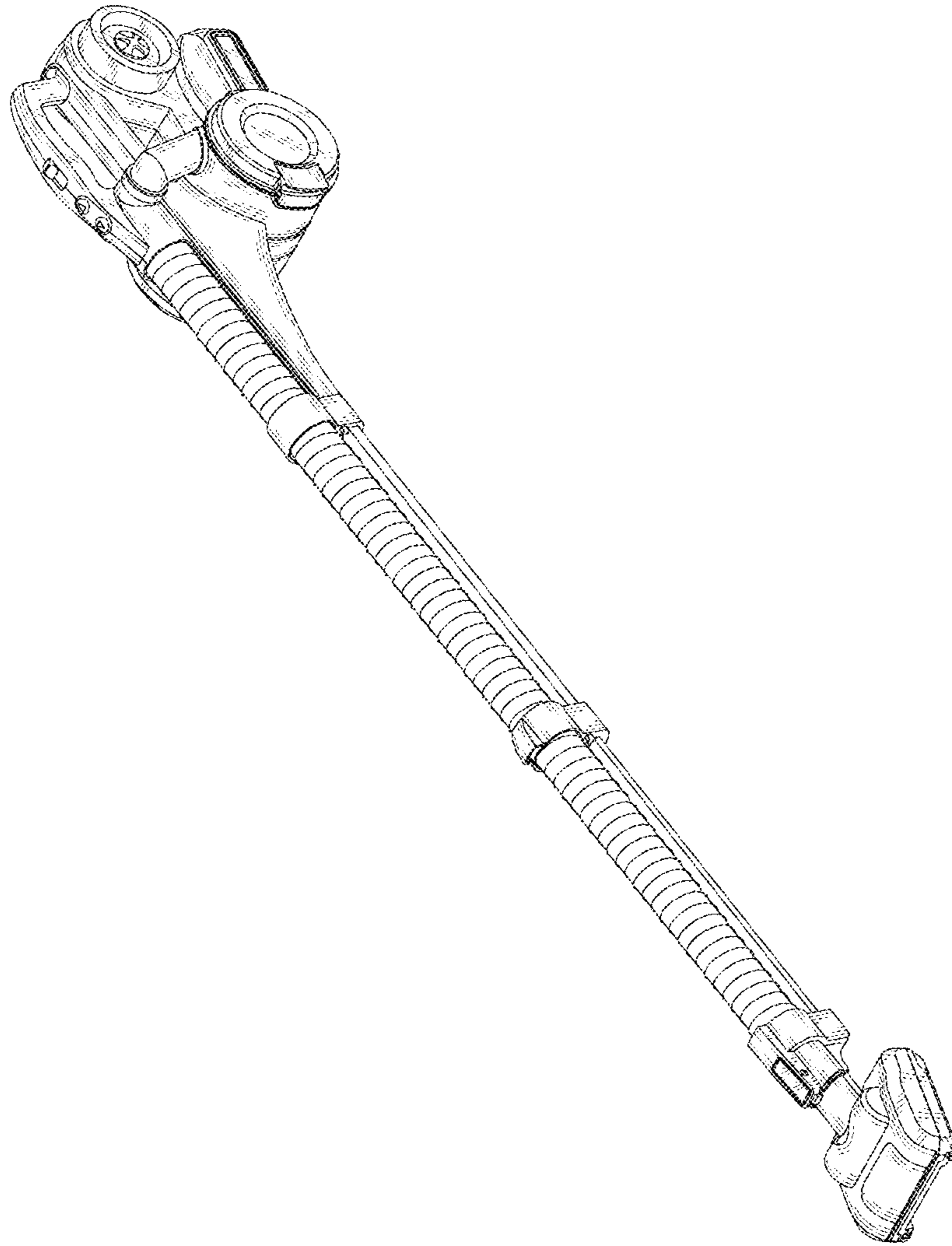


FIG. 8

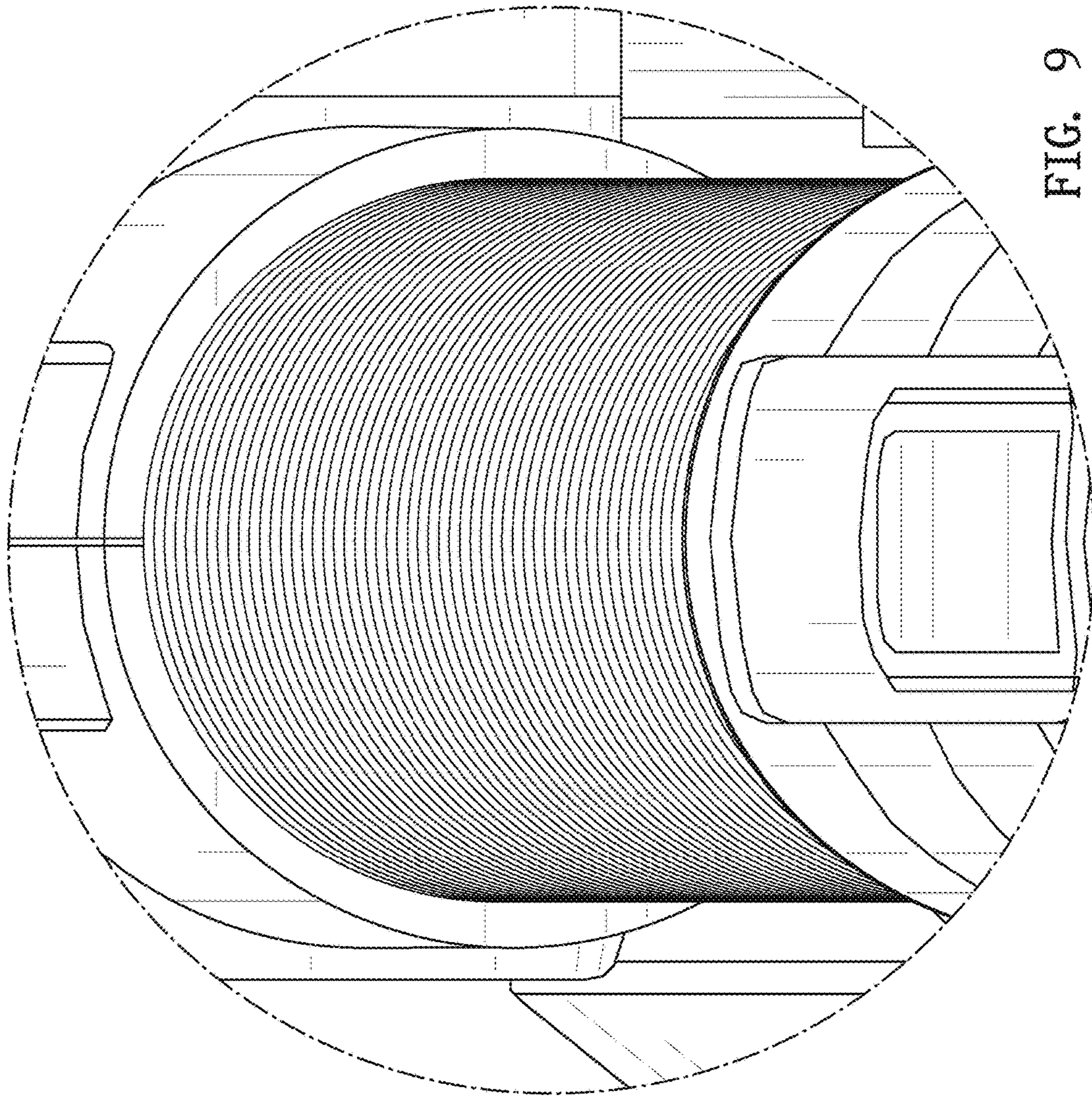


FIG. 9