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

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(45) **Date of Patent:** **\*\* Nov. 28, 2017**

(54) **VACUUM CLEANER**

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Suwon-si (KR)

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

(21) Appl. No.: **29/547,226**

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(30) **Foreign Application Priority Data**

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(51) **LOC (10) Cl.** ..... **15-05**

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

(58) **Field of Classification Search**  
USPC ..... D32/17-18, 21-22, 31, 34  
CPC ..... A47L 5/24; A47L 5/28; A47L 5/34; A47L  
5/362; A47L 5/36; A47L 11/34; A47L  
9/325; A47L 9/20; A47L 9/02; A47L  
9/32; A47L 9/322; A47L 9/327; A47L  
7/0038

See application file for complete search history.

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(57) **CLAIM**

We claim the ornamental design for a vacuum cleaner, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a vacuum 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; and,  
FIG. 9 is enlarged view of encircled portion in FIG. 3.  
The details shown in broken lines form no part of the claimed design. The dot-dash broken lines in FIG. 3 indicate the enlarged portion in FIG. 9.

**1 Claim, 9 Drawing Sheets**

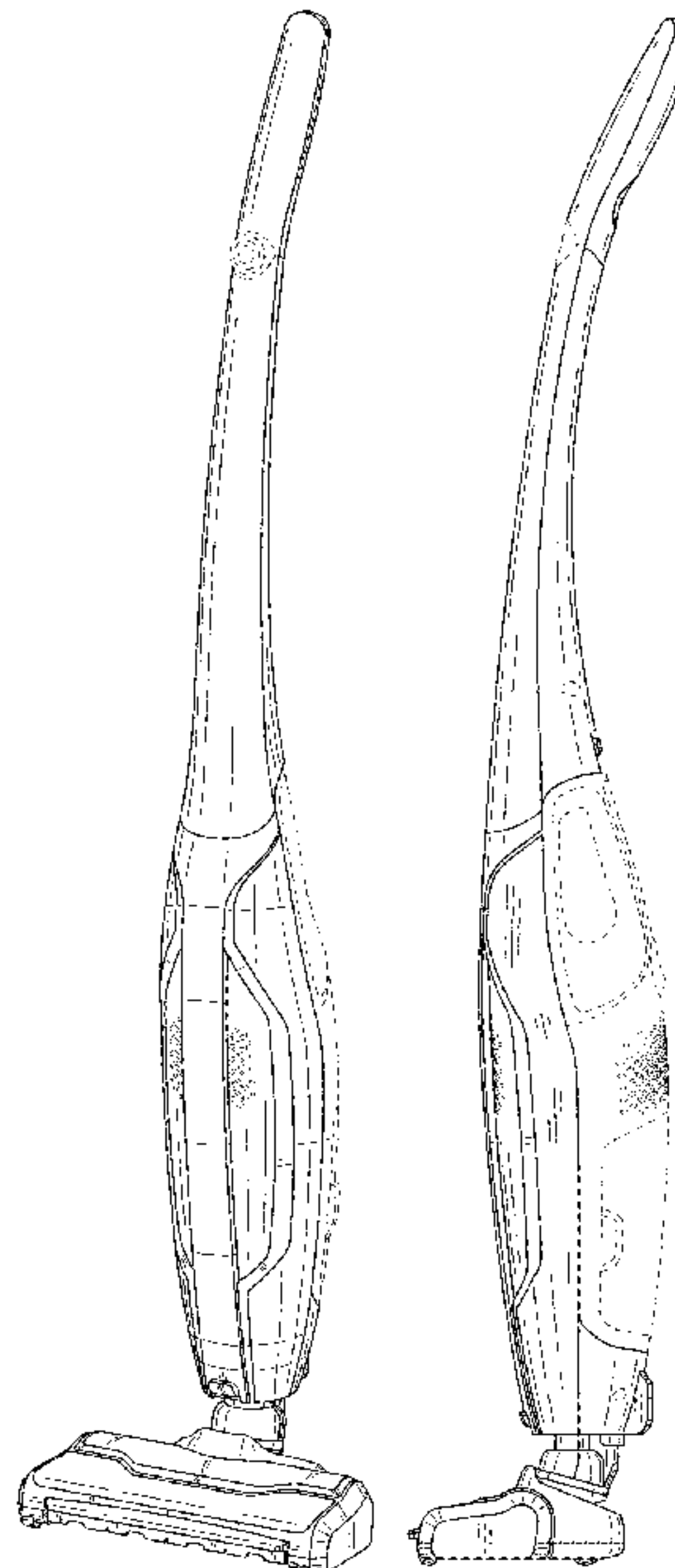


FIG. 1

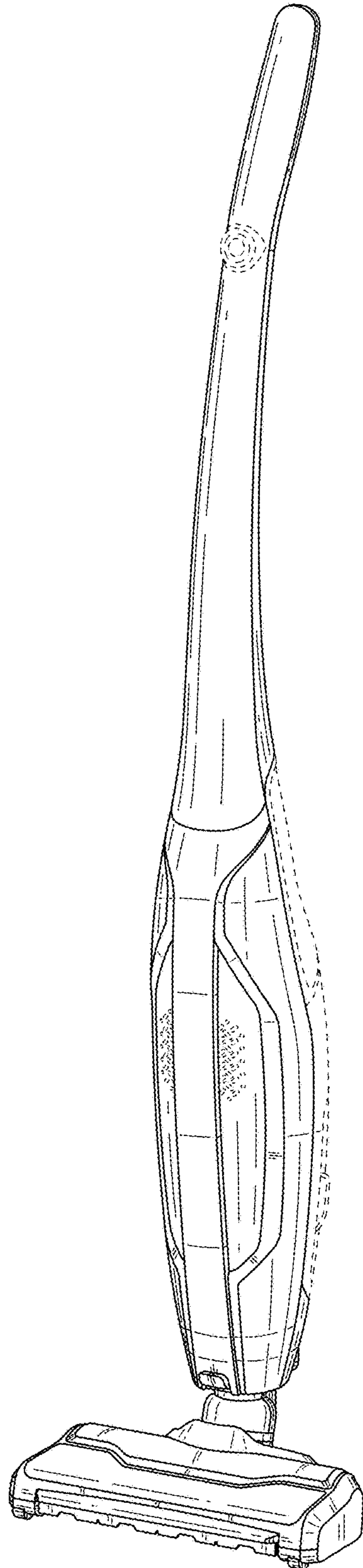


FIG. 2

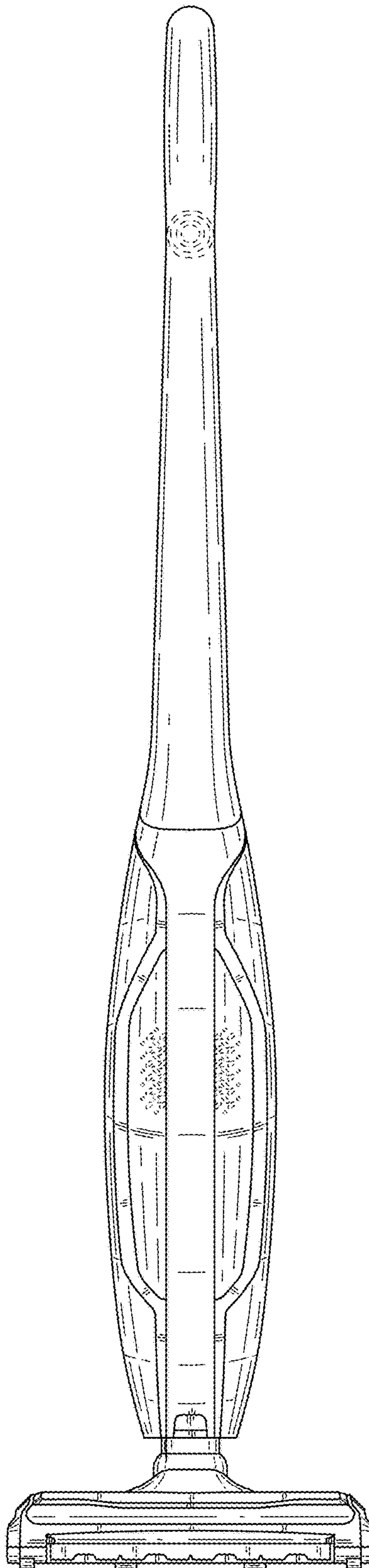


FIG. 3

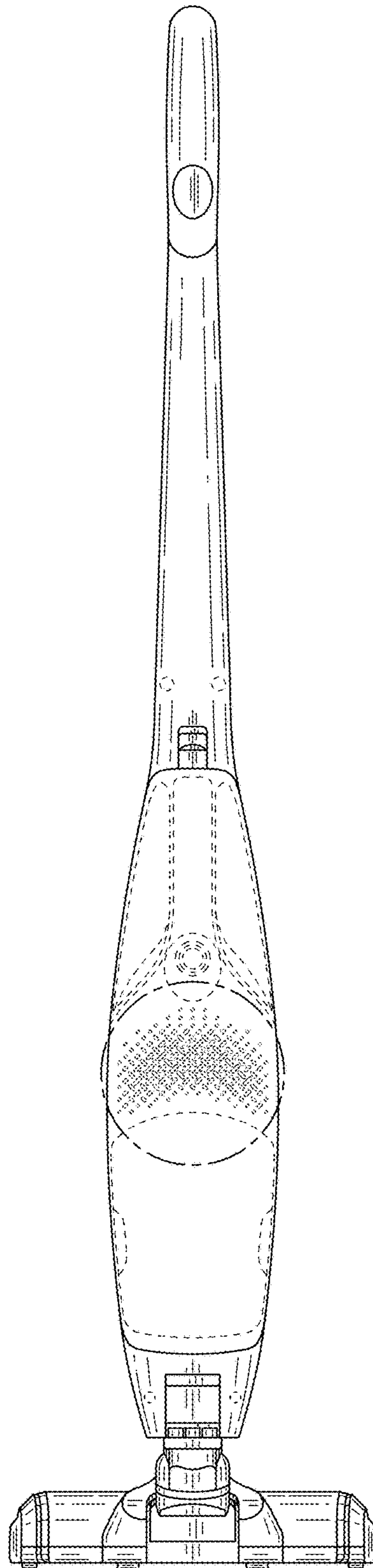


FIG. 4

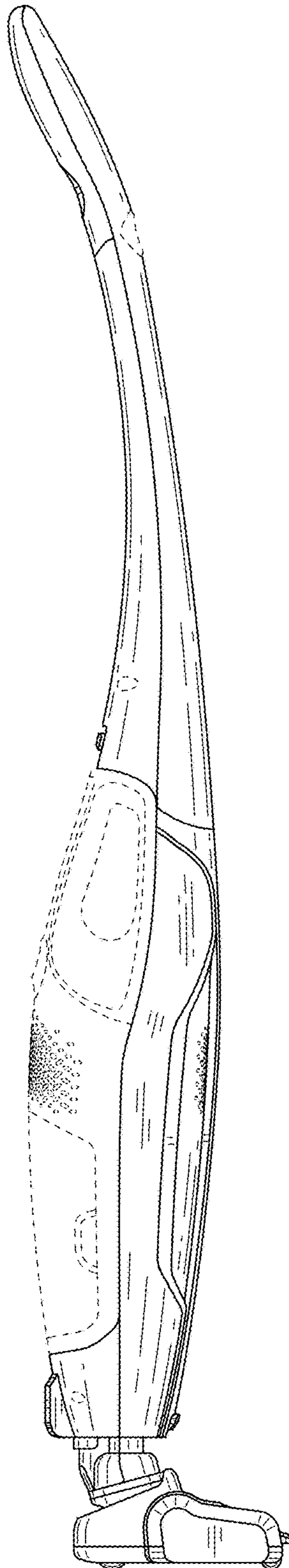


FIG. 5

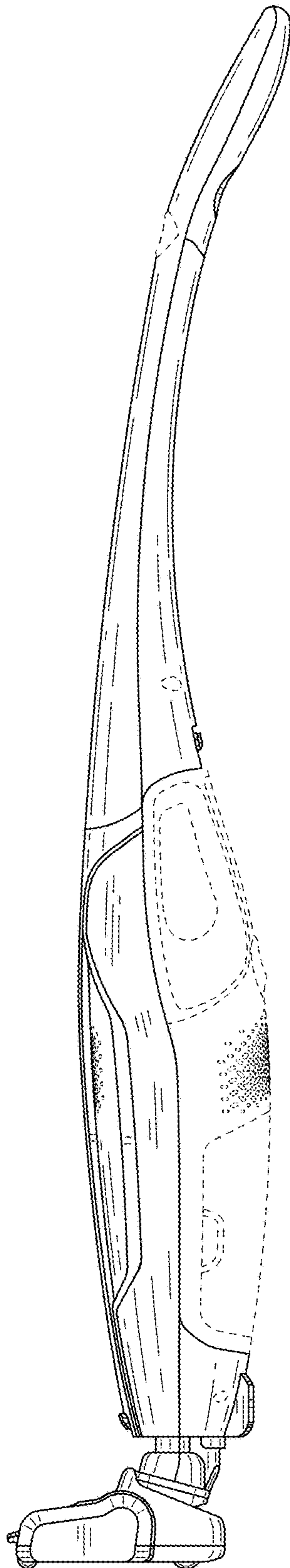




FIG. 6

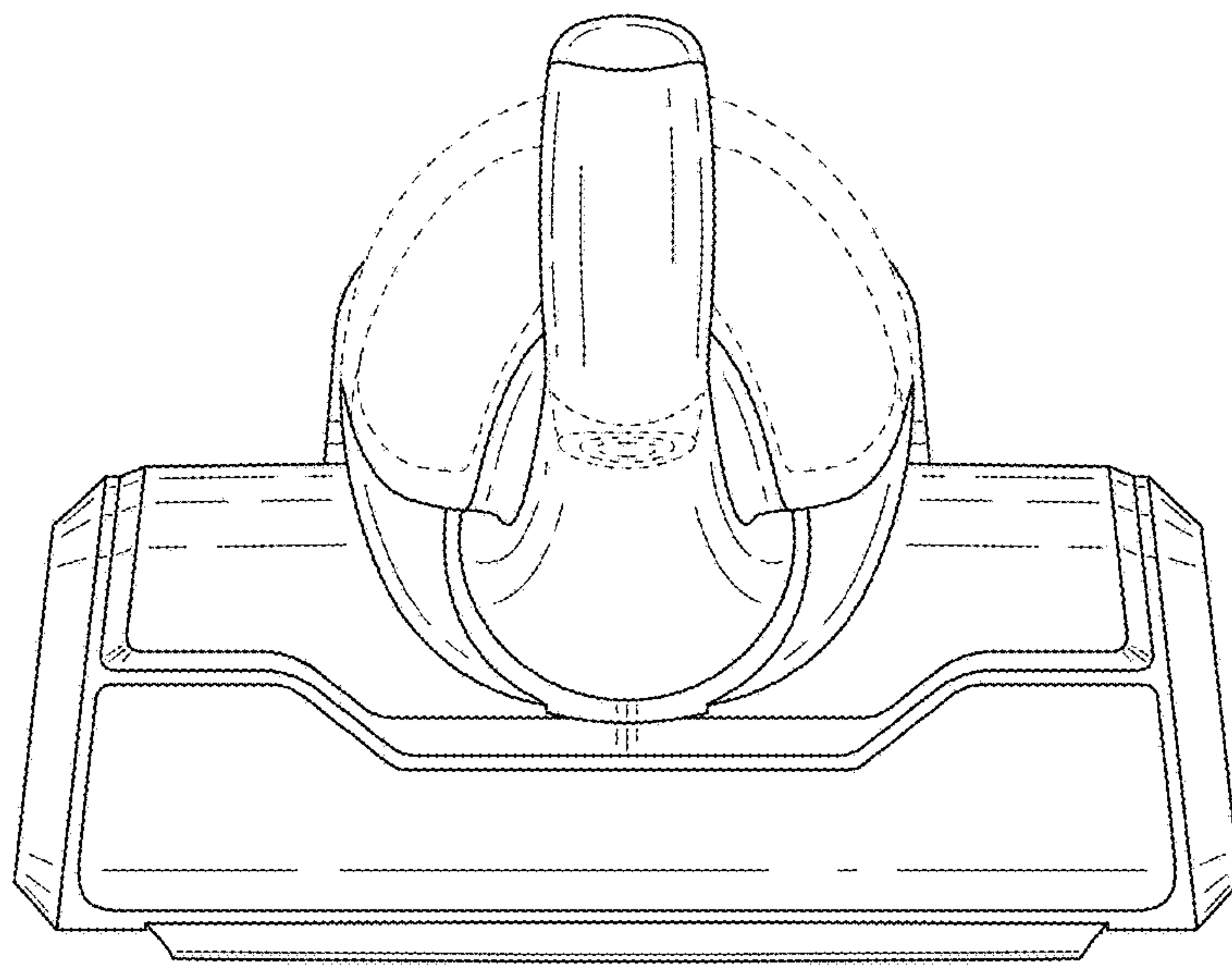


FIG. 7

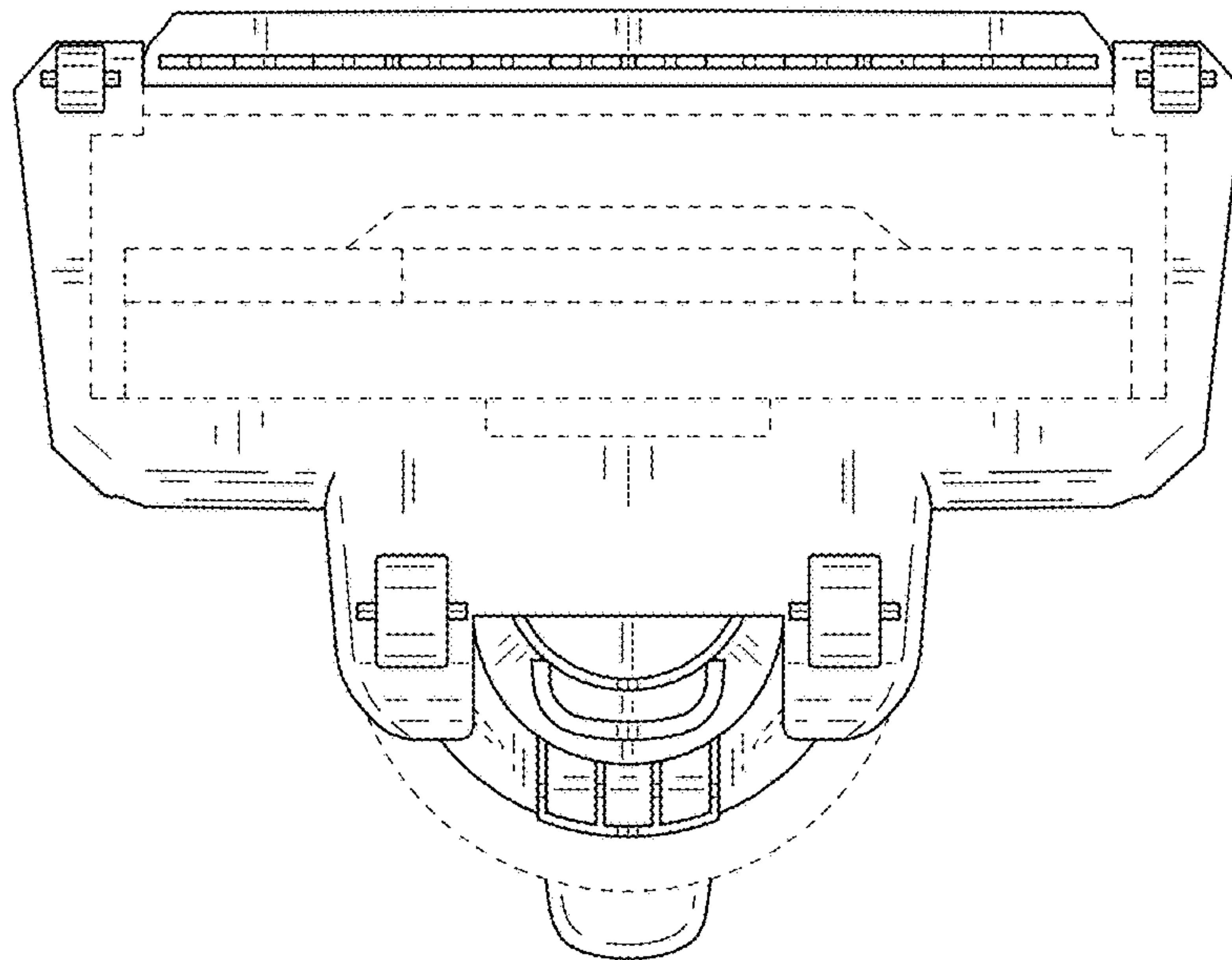




FIG. 8

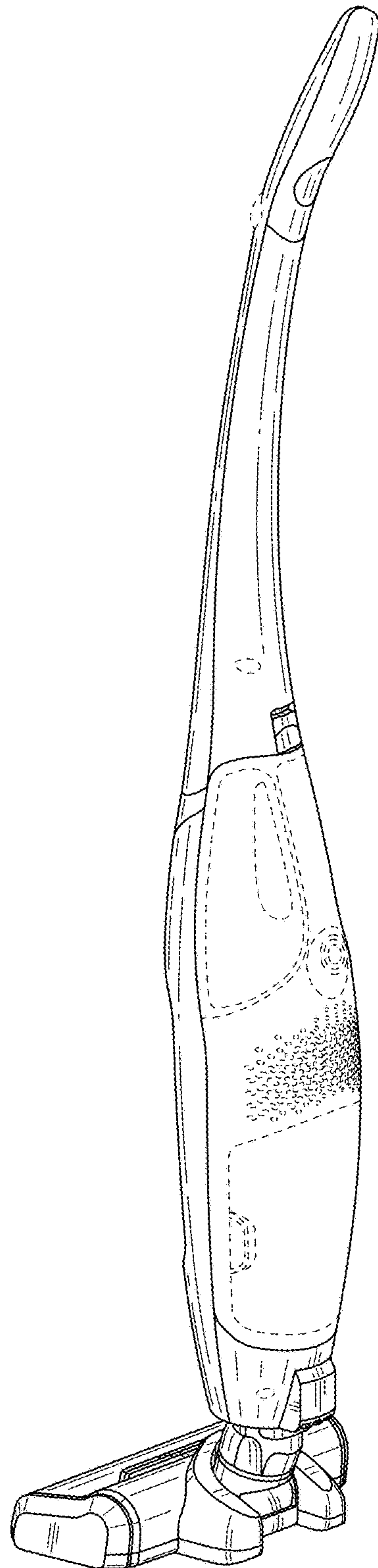


FIG. 9

