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United States Patent [19]

Stephens et al.

[11] **Patent Number: Des. 401,021**

[45] **Date of Patent: **Nov. 10, 1998**

[54] **HAND HELD VACUUM CLEANER**

D. 356,191 3/1995 Phelan D32/18
D. 357,772 4/1995 Yuen D32/18

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OTHER PUBLICATIONS

Hong Kong Enterprise, Nov. 1986, p. 239 "hand-held Vacuum cleaner at bottom of page".
Sanyo Catalog 1984–Autumn, "PC-30L Sanyo mini-vac. cleaner".

[73] Assignee: **Royal Appliance Mfg. Co.**, Cleveland, Ohio

Primary Examiner—Ruth McInroy

[**] Term: **14 Years**

[57] CLAIM

[21] Appl. No.: **31,733**

The ornamental design for a hand held vacuum cleaner, as shown.

[22] Filed: **Dec. 5, 1994**

DESCRIPTION

[51] **LOC (6) Cl.** **15-05**

FIG. 1 is top plan view of a hand held vacuum cleaner showing the new design;
FIG. 2 is left side elevational view thereof;
FIG. 3 is right side elevational view thereof;
FIG. 4 is a front elevational view thereof;
FIG. 5 is a rear elevational view thereof;
FIG. 6 is bottom plan view thereof; and,
FIG. 7 is a top plan view of the vacuum cleaner of FIG. 1 received in a recharger/holder.

[52] **U.S. Cl.** **D32/18**

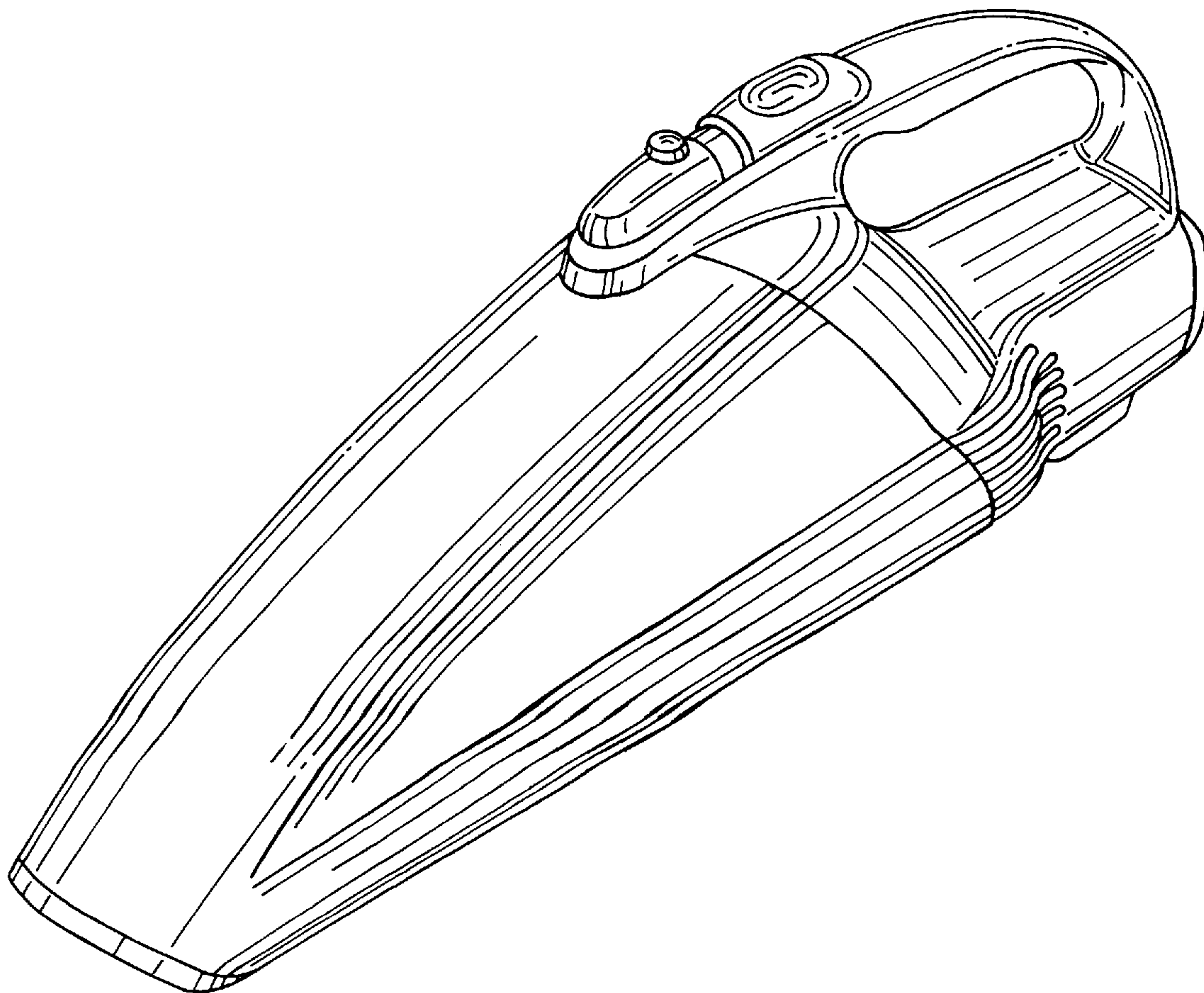
[58] **Field of Search** D32/17–18; 15/329, 15/344, 347; 119/87; 43/139

[56] References Cited

U.S. PATENT DOCUMENTS

D. 275,427 9/1984 Kishi et al. D32/18
D. 287,893 1/1987 Fujii et al. D32/18
D. 307,657 5/1990 Li D32/22

1 Claim, 3 Drawing Sheets



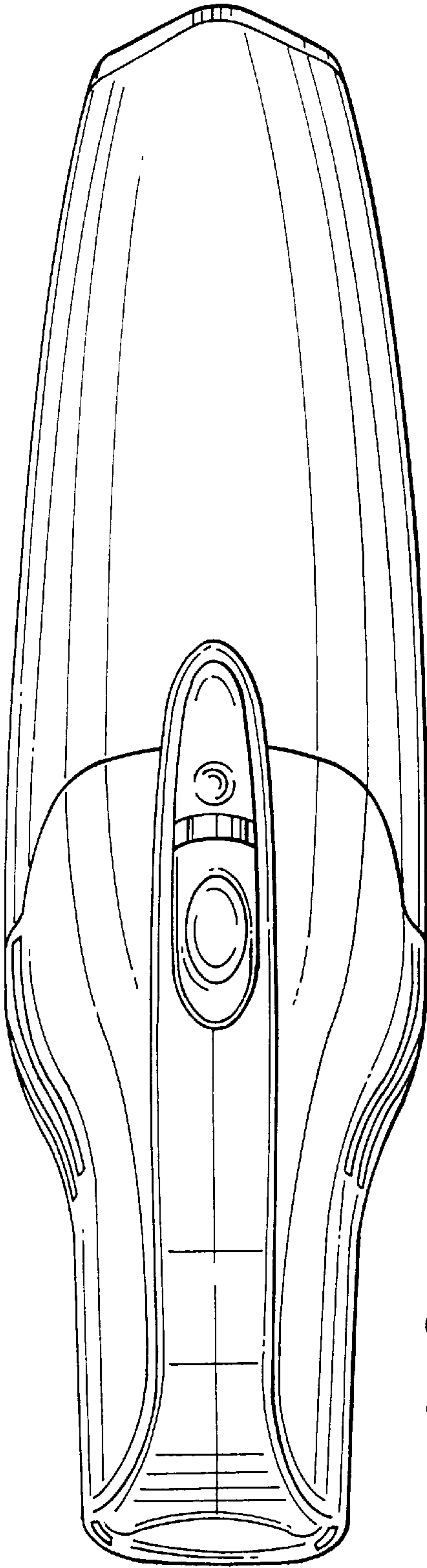


FIG. 2

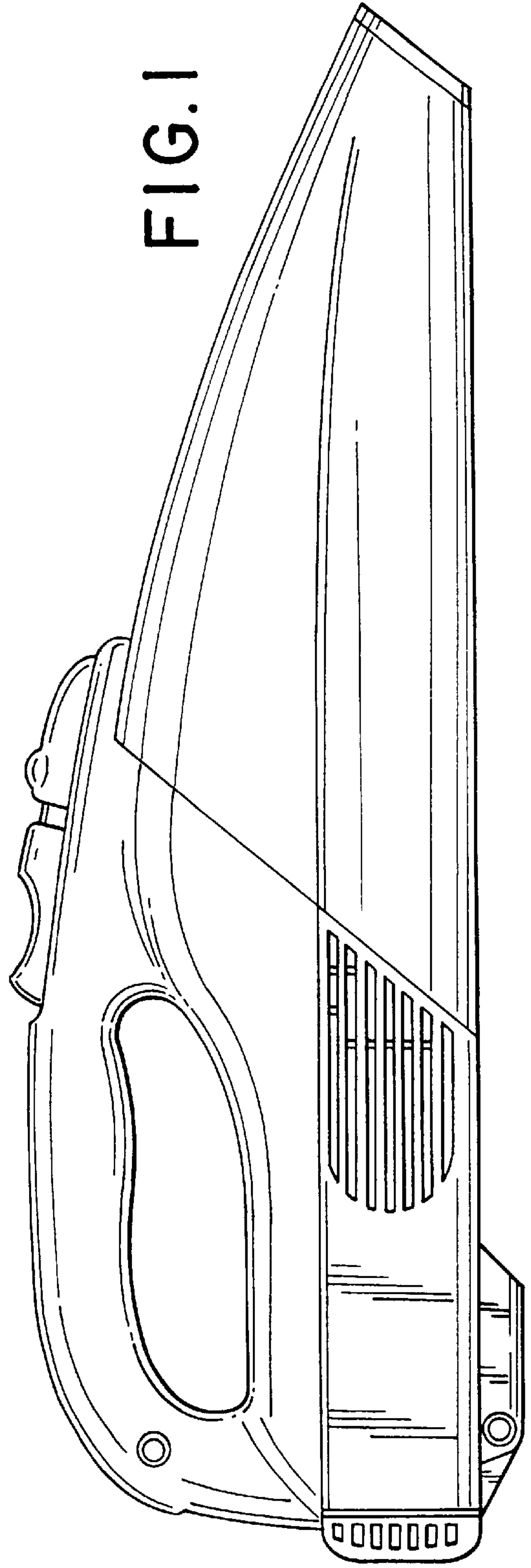


FIG. 1

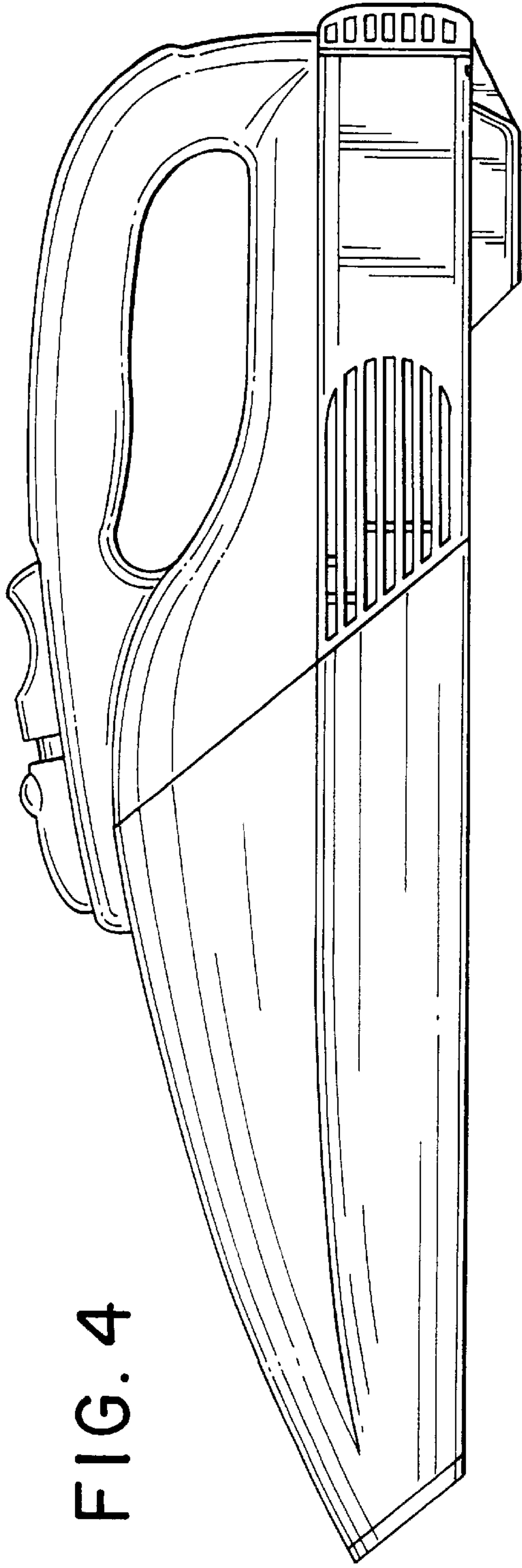


FIG. 4

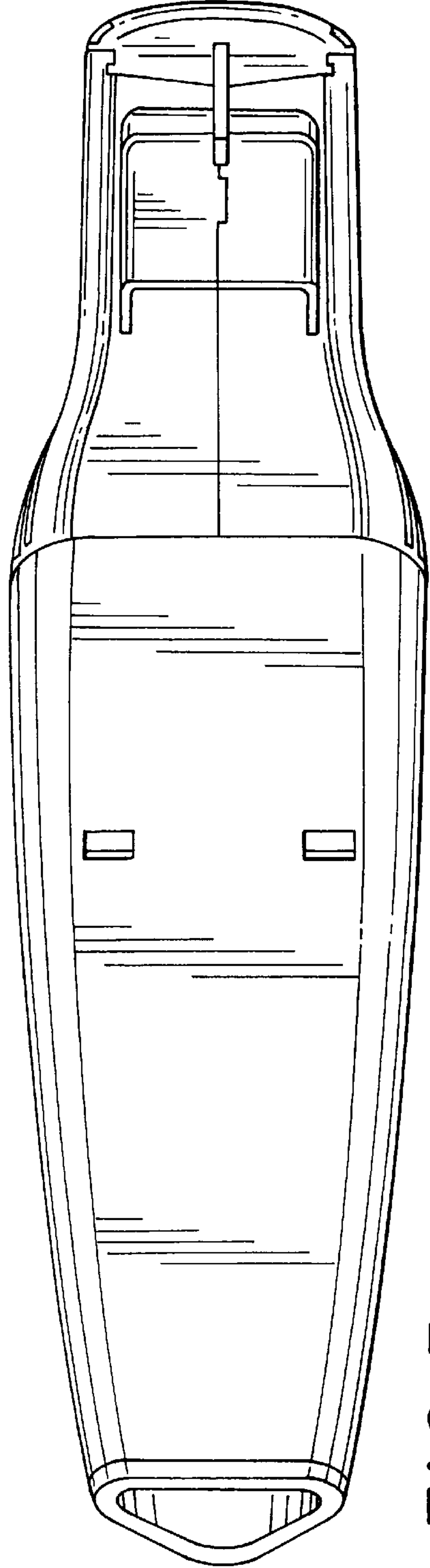


FIG. 3

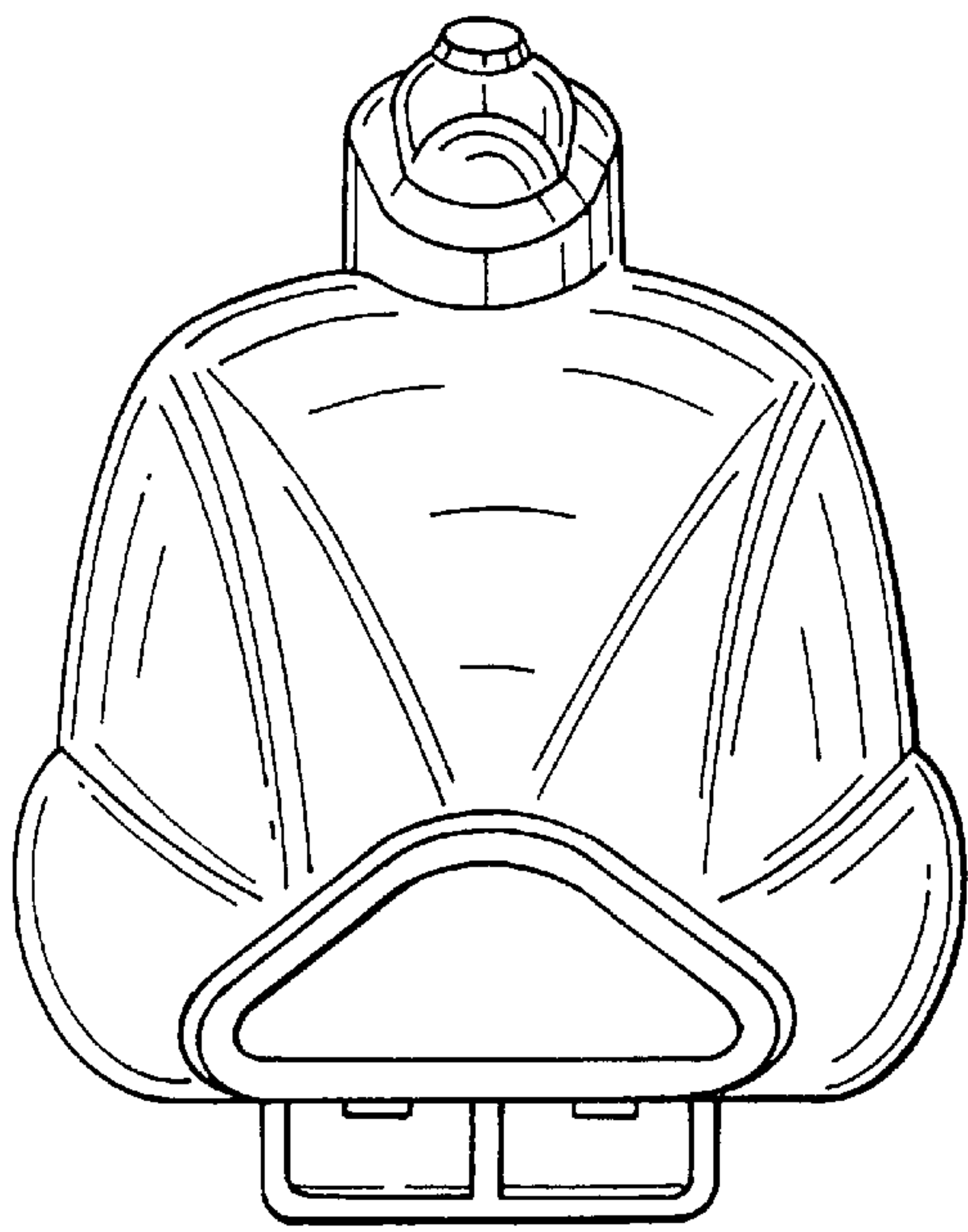


FIG. 5

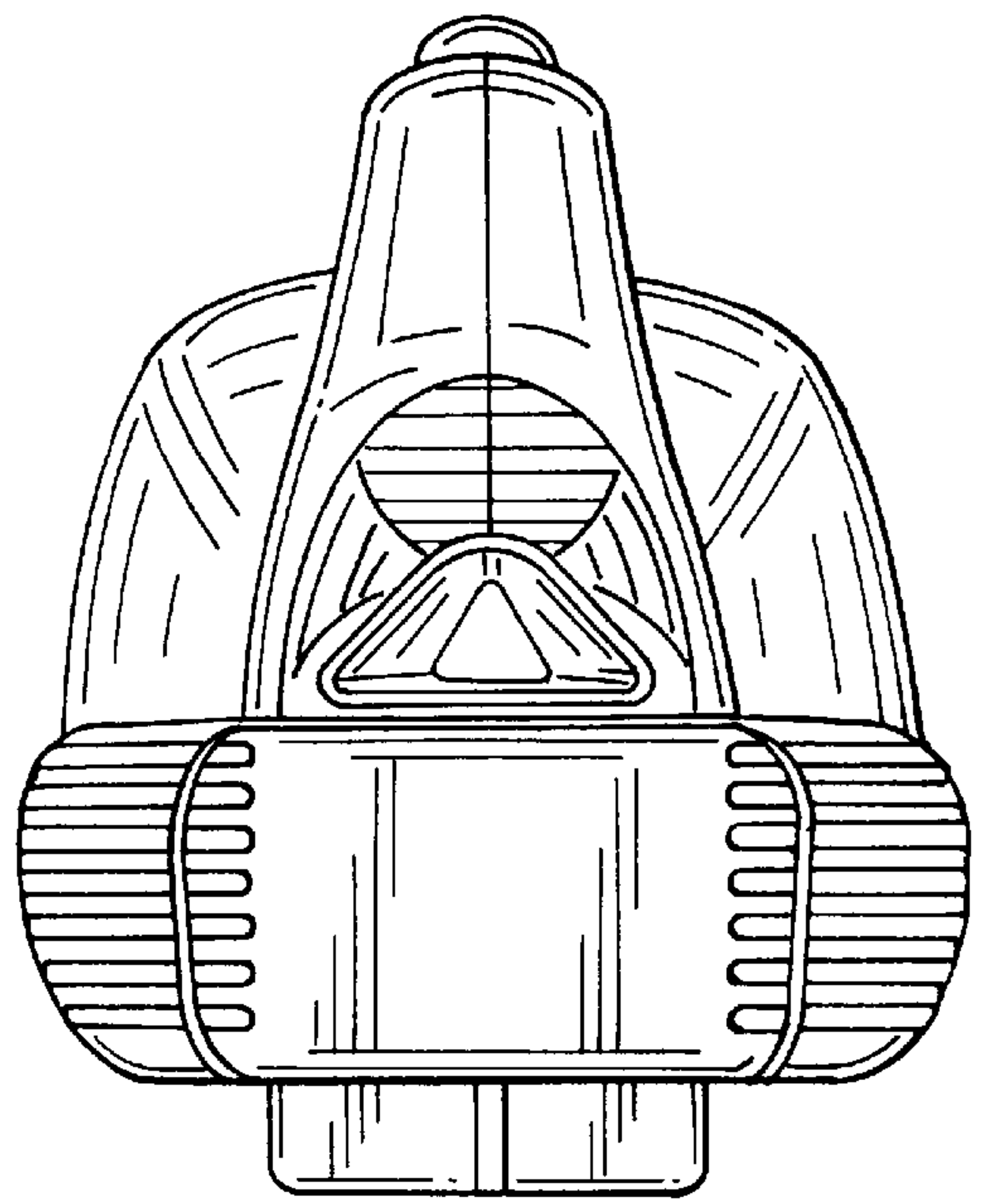


FIG. 6

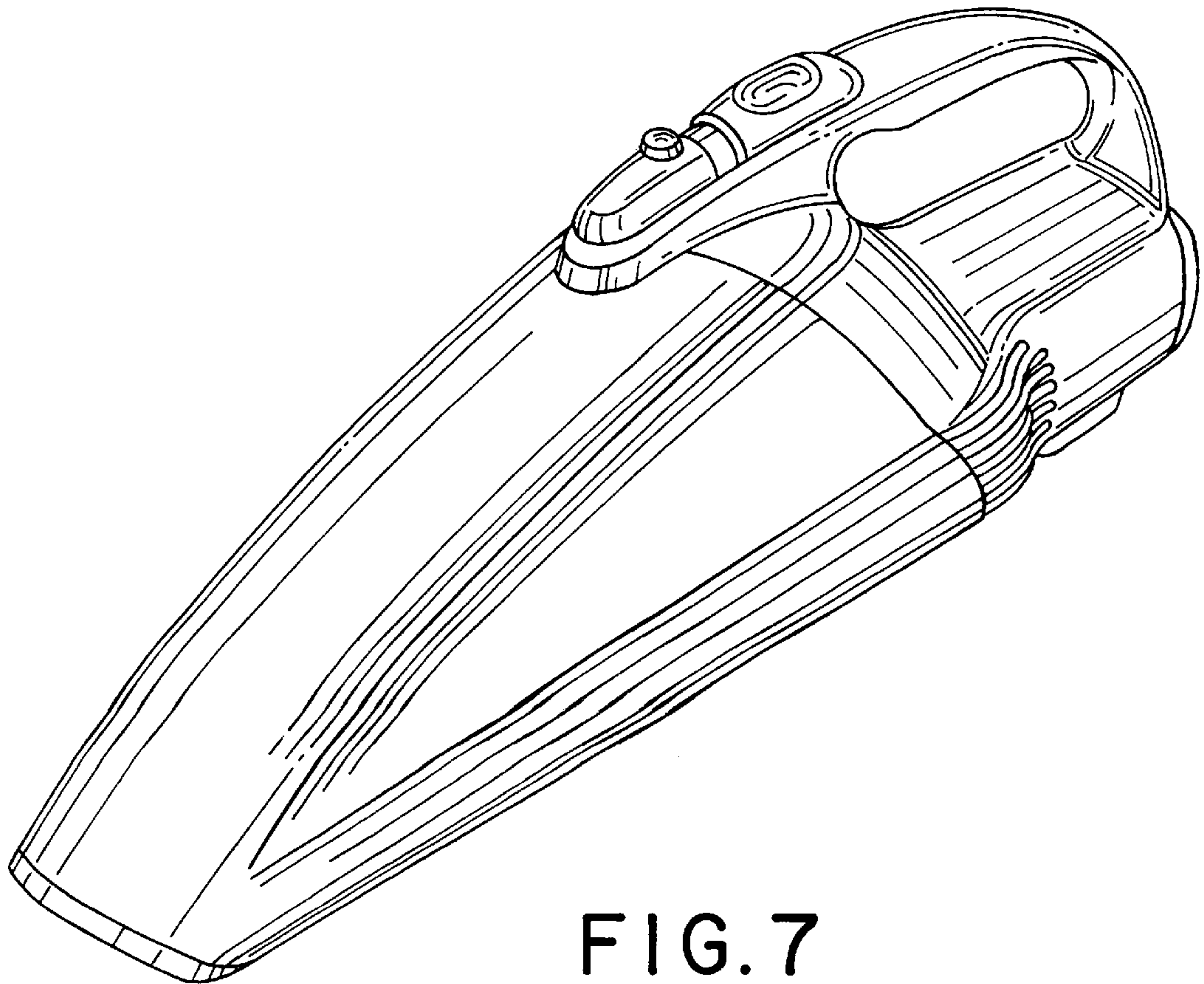


FIG. 7