

United States Patent [19]

Yamamoto et al.

[11] Patent Number: Des. 300,379

[45] Date of Patent: ** Mar. 21, 1989

[54] VACUUM CLEANER

[75] Inventors: Sachio Yamamoto; Chikashi Kuriya, both of Osaka, Japan

[73] Assignee: Sharp Corporation, Osaka, Japan

[**] Term: 14 Years

[21] Appl. No.: 841,693

[22] Filed: Mar. 4, 1986

[30] Foreign Application Priority Data

Sep. 4, 1985 [JP] Japan 60-37693

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

[58] Field of Search D32/17-18, D32/21-22, 30-34; 15/344, 320, 323, 353, 347; 55/52

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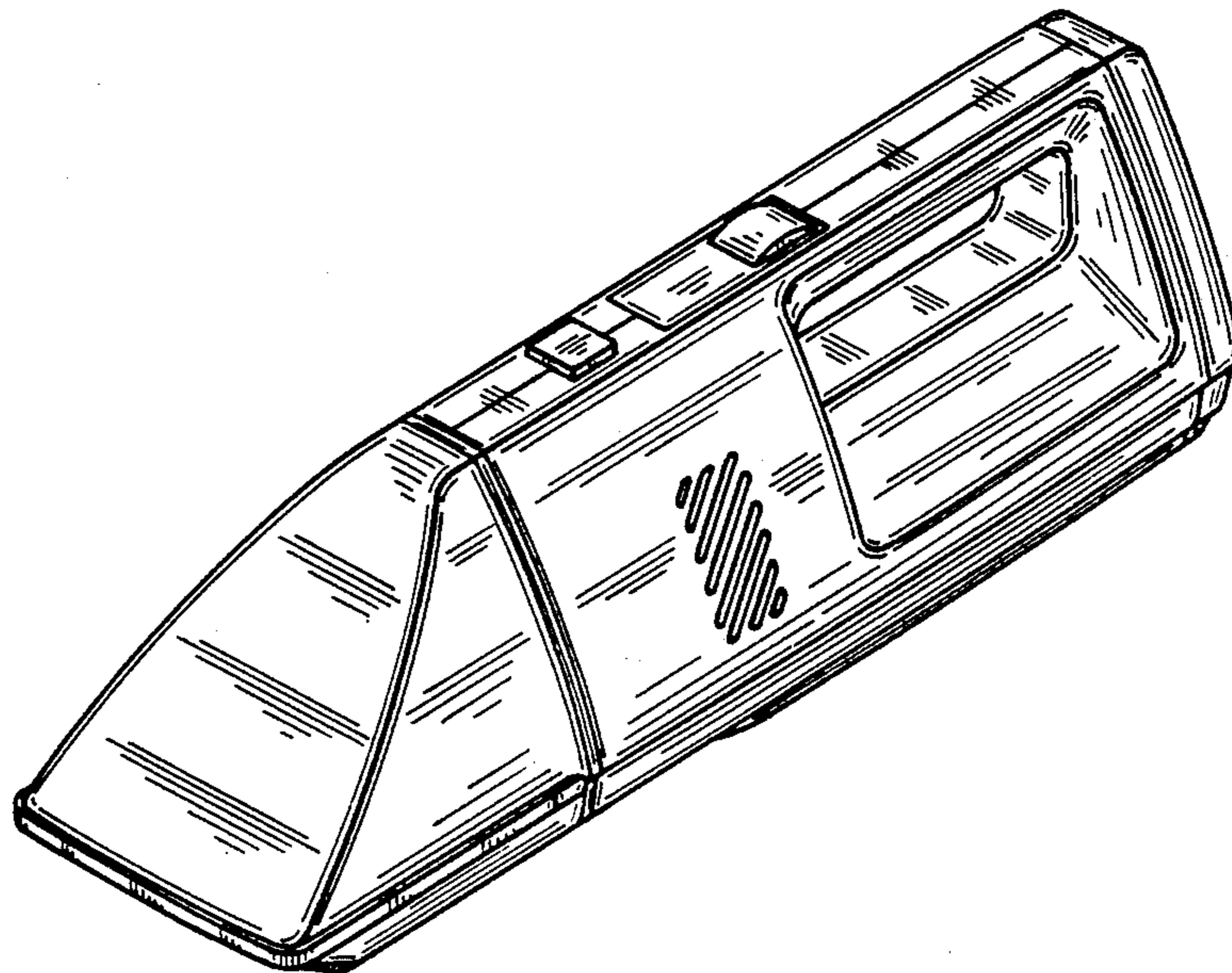
Primary Examiner—Bruce W. Dunkins
Assistant Examiner—Ruth Takemoto
Attorney, Agent, or Firm—Flehr, Hohbach, Test, Albritton & Herbert

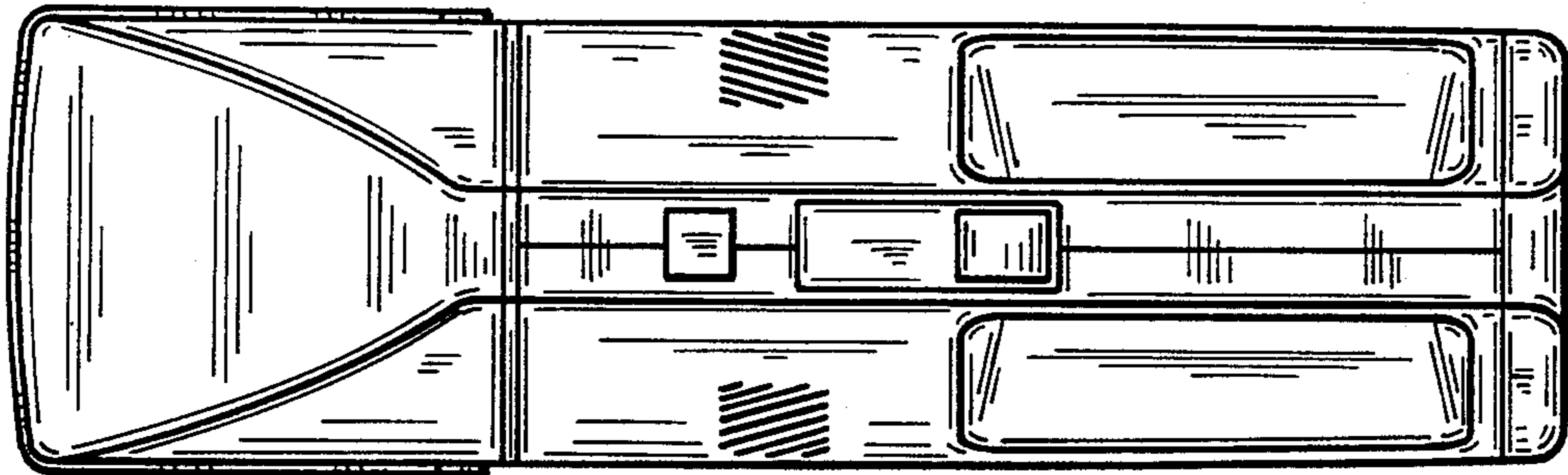
[57] CLAIM

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

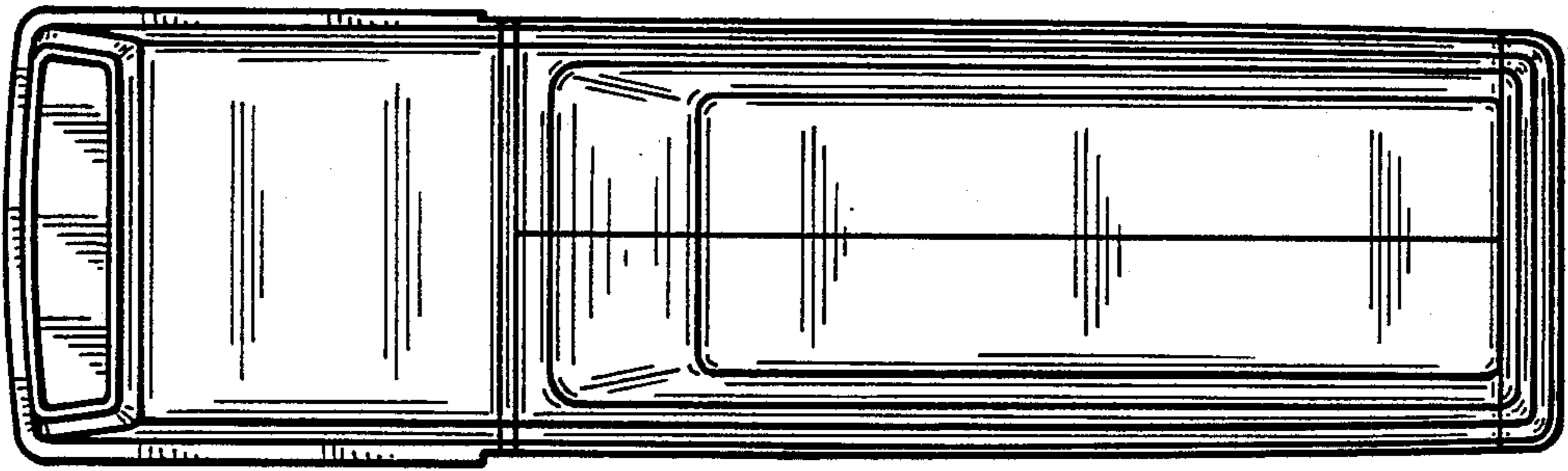
DESCRIPTION

FIG. 1 is a top plan view of a vacuum cleaner showing our new design;
FIG. 2 is a bottom plan view thereof;
FIG. 3 is a right side elevational view thereof, the left side elevational view being a mirror image;
FIG. 4 is a front elevational view thereof;
FIG. 5 is a rear elevational view thereof; and
FIG. 6 is a top, front and right side perspective view thereof.

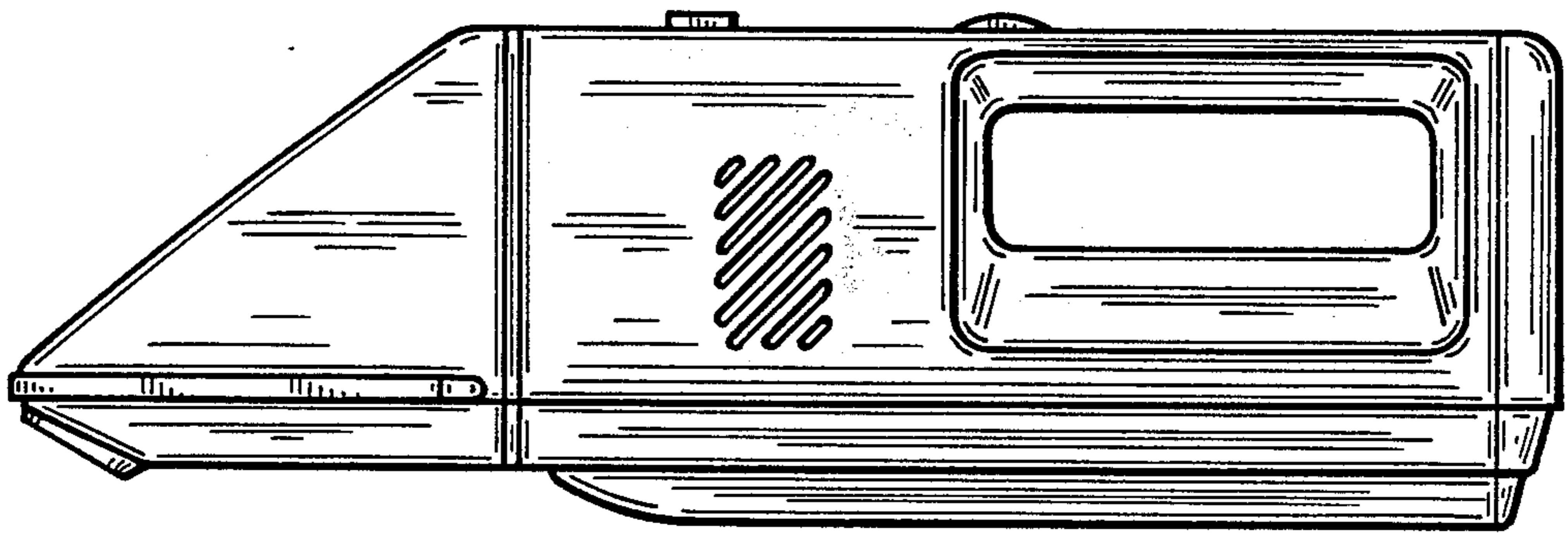




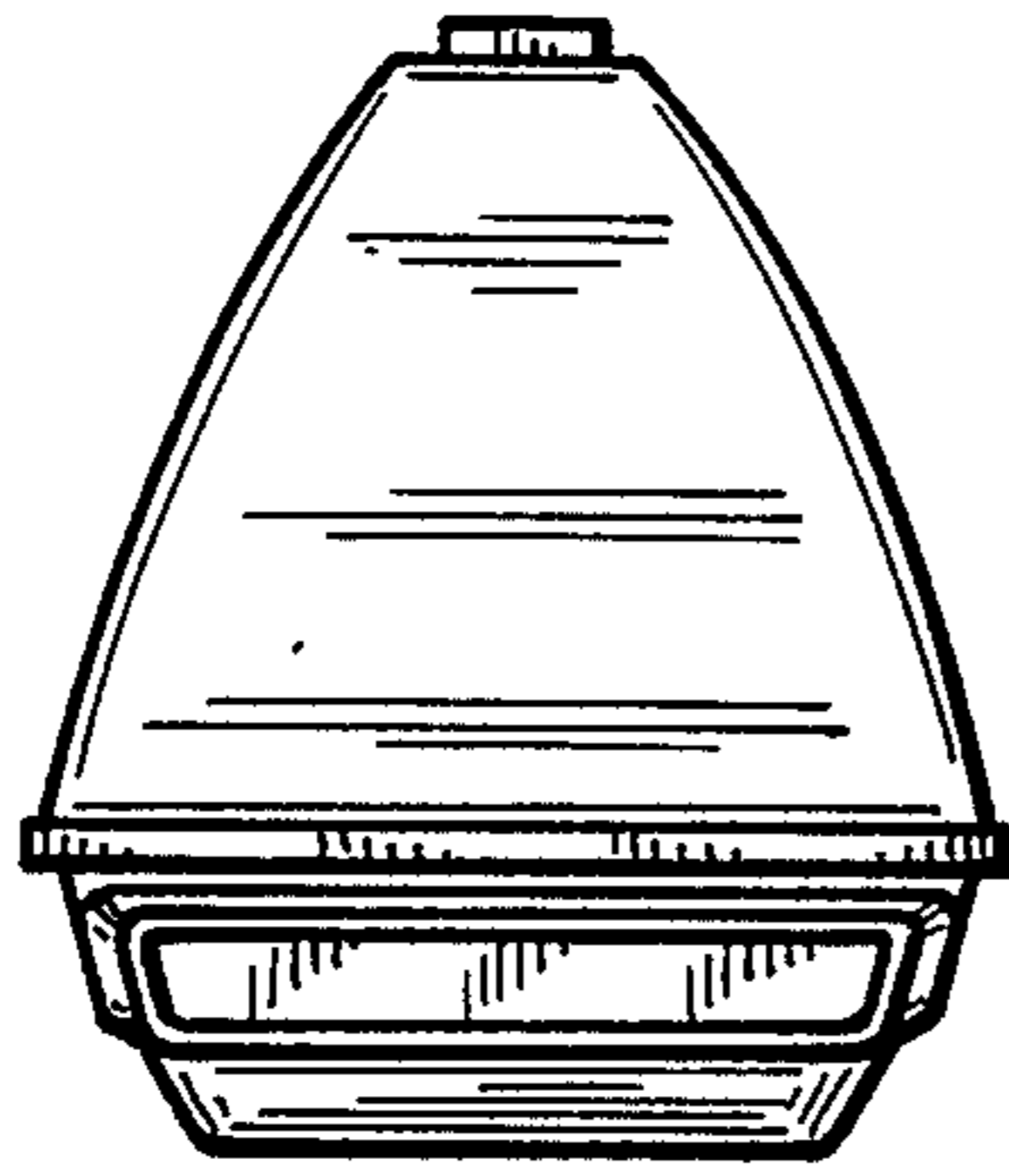
FIG_1



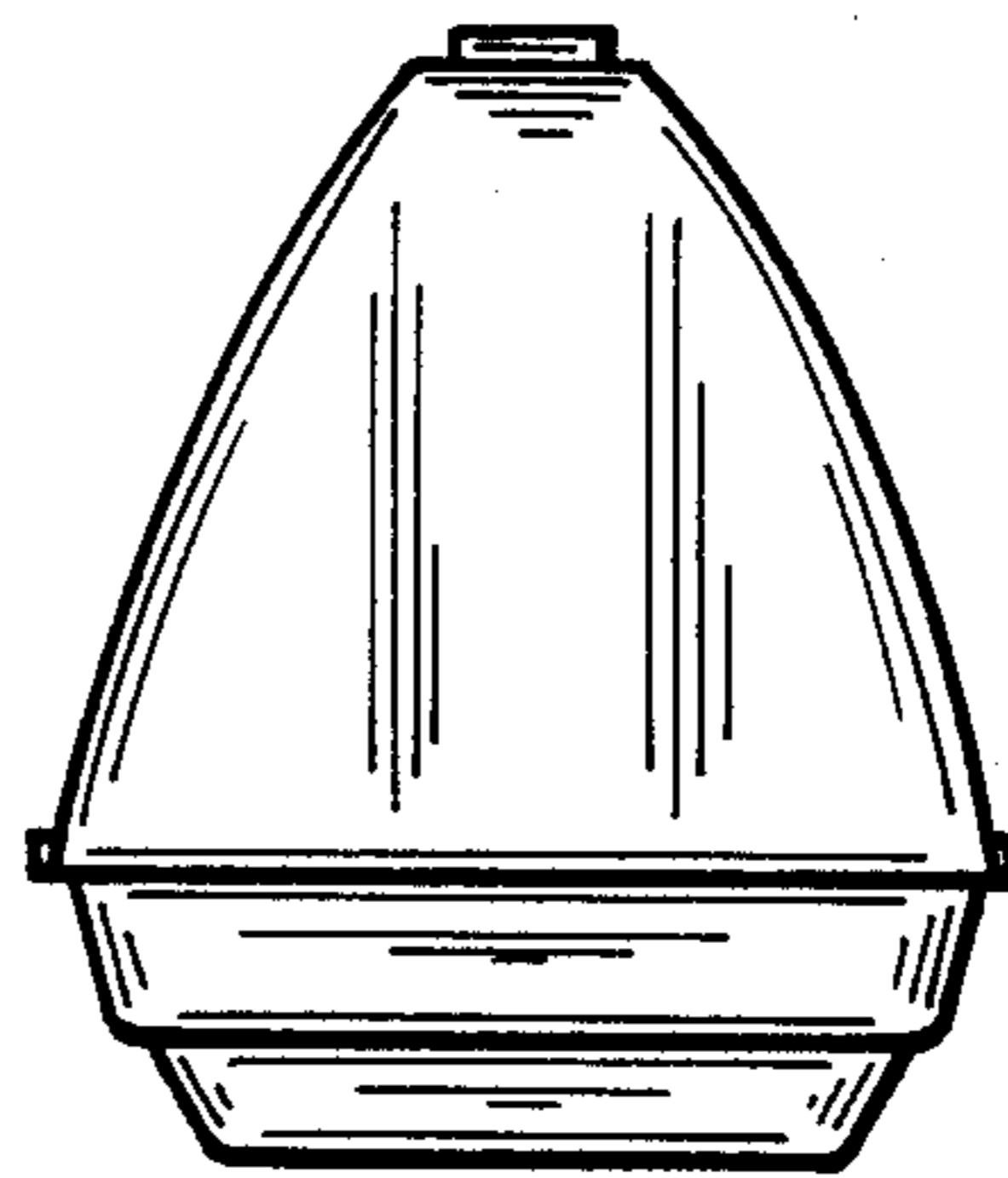
FIG_2



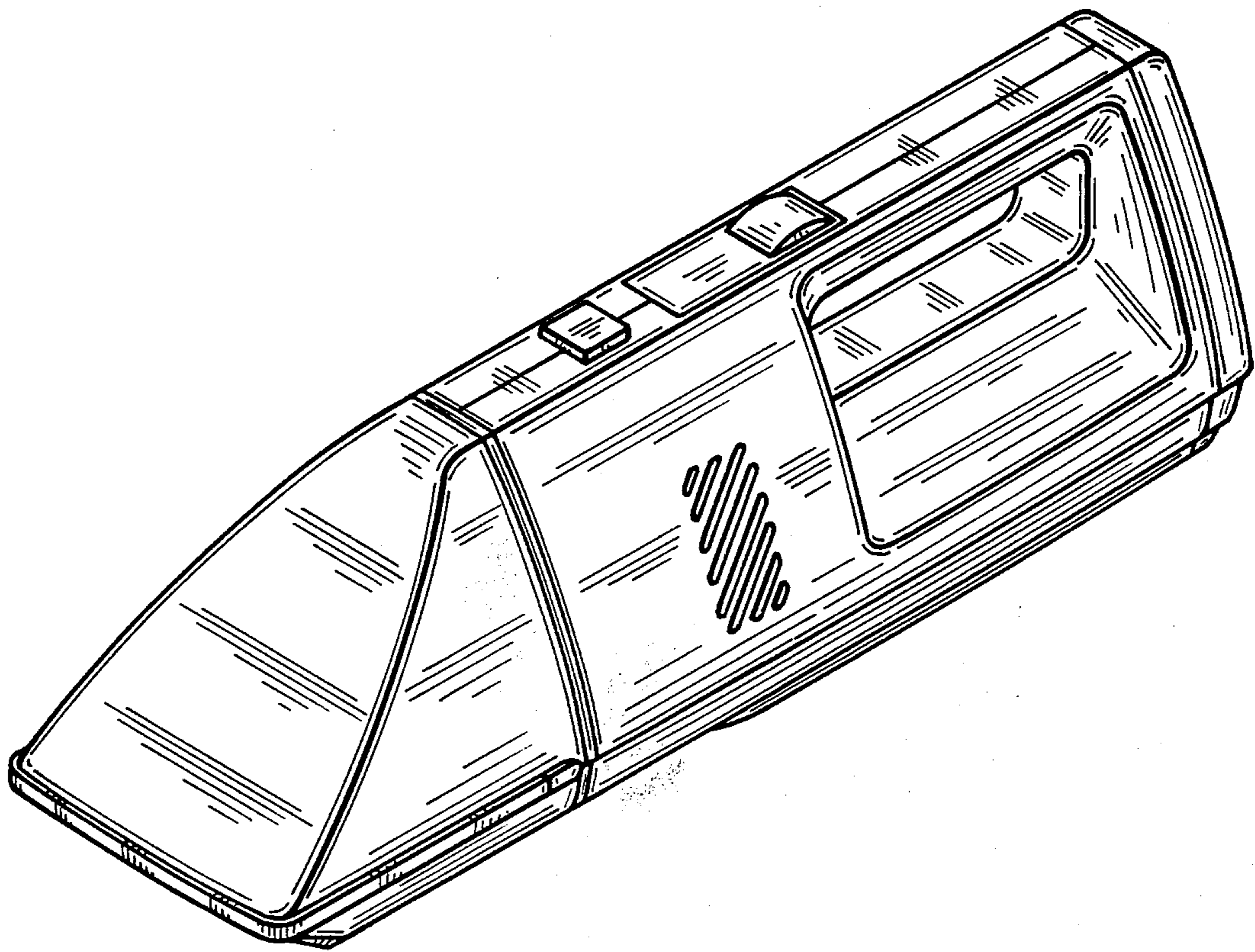
FIG_3



FIG_4



FIG_5



FIG_6