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(12) **United States Design Patent**  
**Fujii**

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(45) **Date of Patent:** **\*\* Apr. 9, 2002**

(54) **VACUUM CLEANER**

(75) **Inventor:** **Nobuhiro Fujii, Osaka-fu (JP)**

(73) **Assignee:** **Sharp Kabushiki Kaisha, Osaka (JP)**

(\*\*) **Term:** **14 Years**

(21) **Appl. No.:** **29/136,402**

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(30) **Foreign Application Priority Data**

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

(58) **Field of Search** ..... D32/21-22, 25,  
D32/31, 34; 15/329, 320-321, 323, 350-353

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- D305,269 S \* 12/1989 Dyson ..... D32/22
- D325,274 S 4/1992 Ikeda
- D327,145 S 6/1992 Kuriya
- D335,556 S 5/1993 Kuriya
- D343,707 S \* 1/1994 Dyson ..... D32/22
- D344,164 S 2/1994 Kuriya
- D354,593 S 1/1995 Koike
- D358,913 S 5/1995 Sugiyama et al.
- 5,502,872 A \* 4/1996 Chae et al. .... 15/320

- D373,665 S 9/1996 Nakamura et al.
- D375,820 S \* 11/1996 Piccaluga et al. .... D32/22
- D383,574 S 9/1997 Saimen et al.
- D398,093 S 9/1998 Fujima
- D403,477 S 12/1998 Tsujimoto et al.
- D403,478 S 12/1998 Tsujimoto et al.
- D421,164 S \* 2/2000 Luebbering ..... D32/22
- D436,699 S 1/2001 Makihara et al.
- D437,666 S \* 2/2001 Park ..... D32/22
- D443,004 S \* 5/2001 Chan ..... D21/526
- 6,253,414 B1 \* 7/2001 Bradd et al. .... 15/320

\* cited by examiner

*Primary Examiner*—Ruth McInroy

(74) *Attorney, Agent, or Firm*—Nixon & Vanderhye

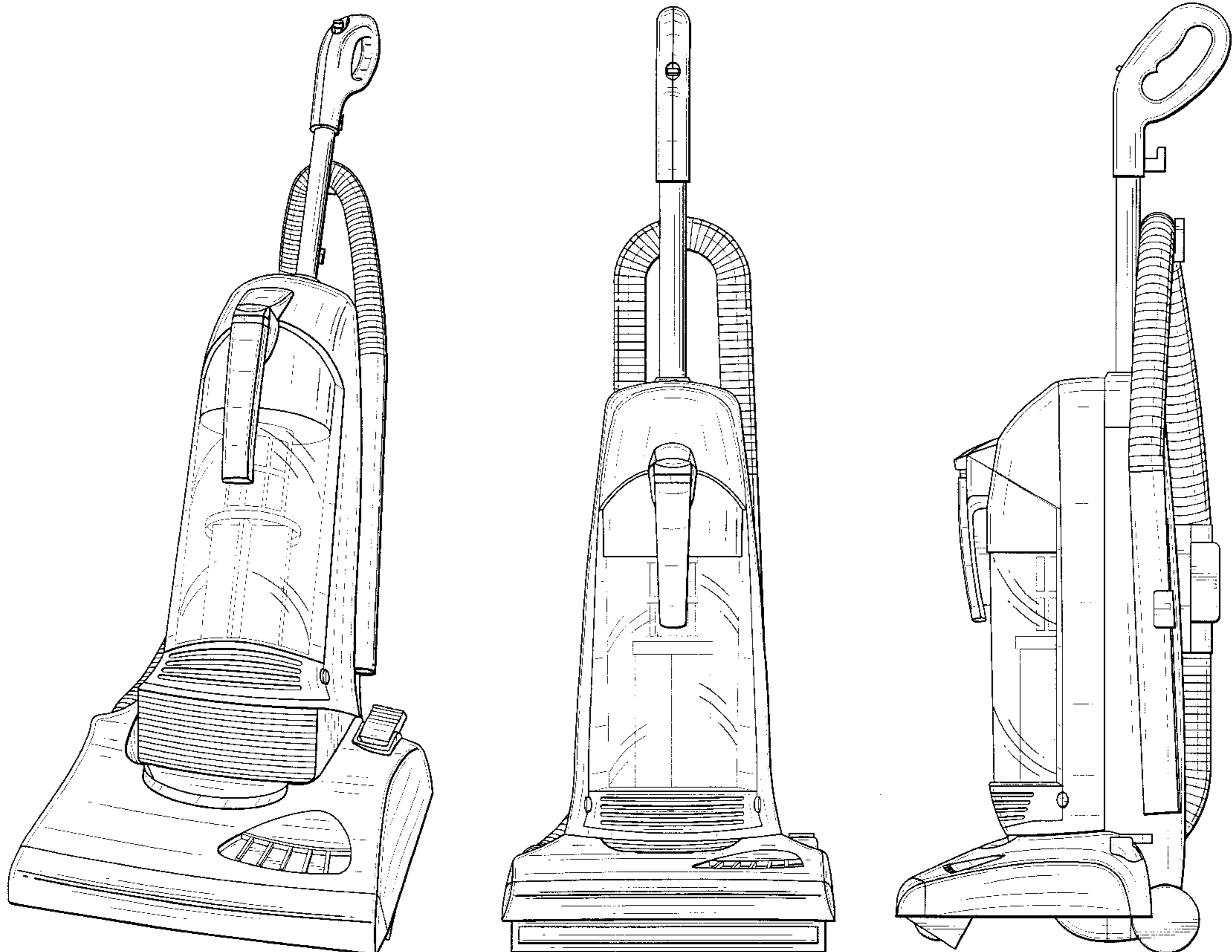
(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a top, front and right side perspective view of a vacuum cleaner showing my new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a rear elevational view thereof; FIG. 4 is a right side elevational view thereof; FIG. 5 is a left side elevational view thereof; FIG. 6 is a bottom plan view thereof; and, FIG. 7 is a top plan view thereof.

**1 Claim, 6 Drawing Sheets**



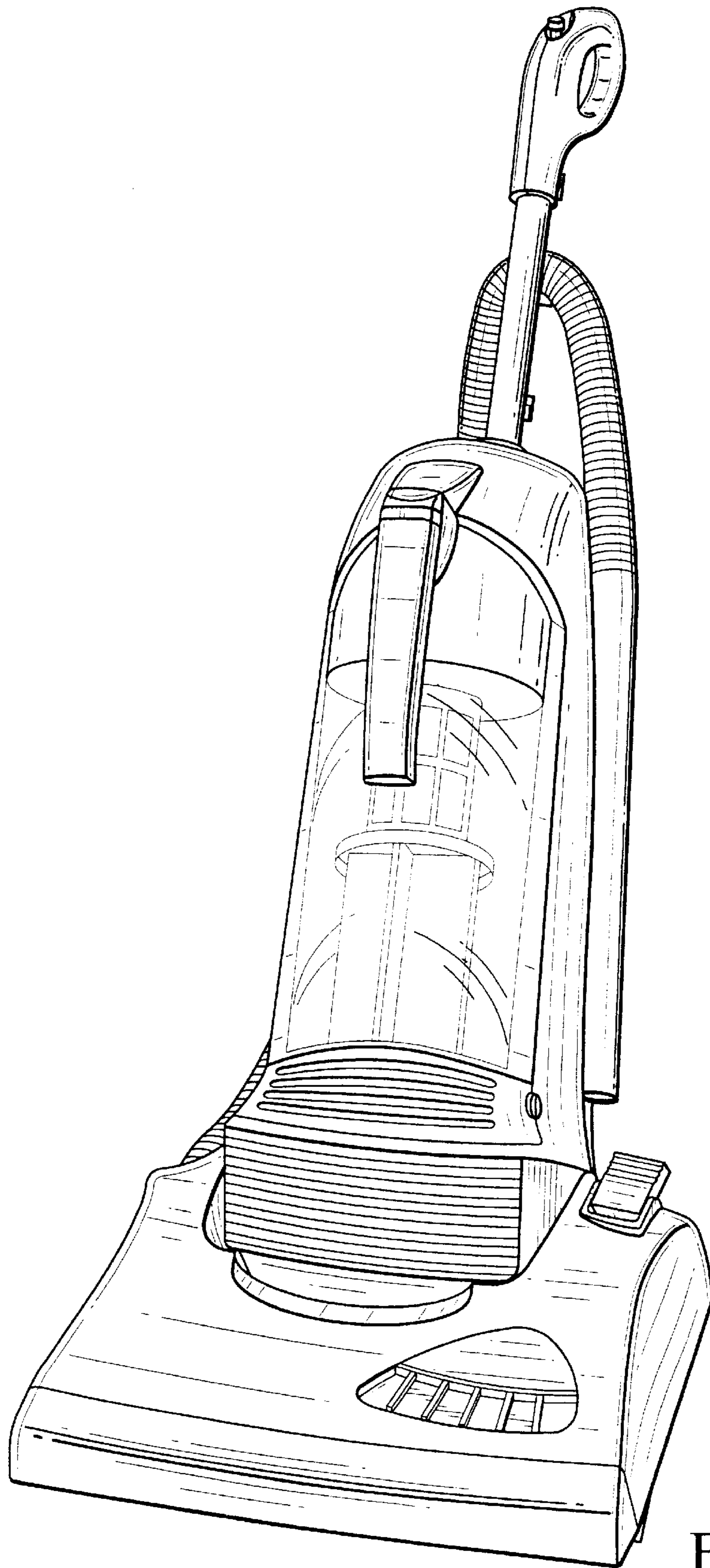


Fig. 1

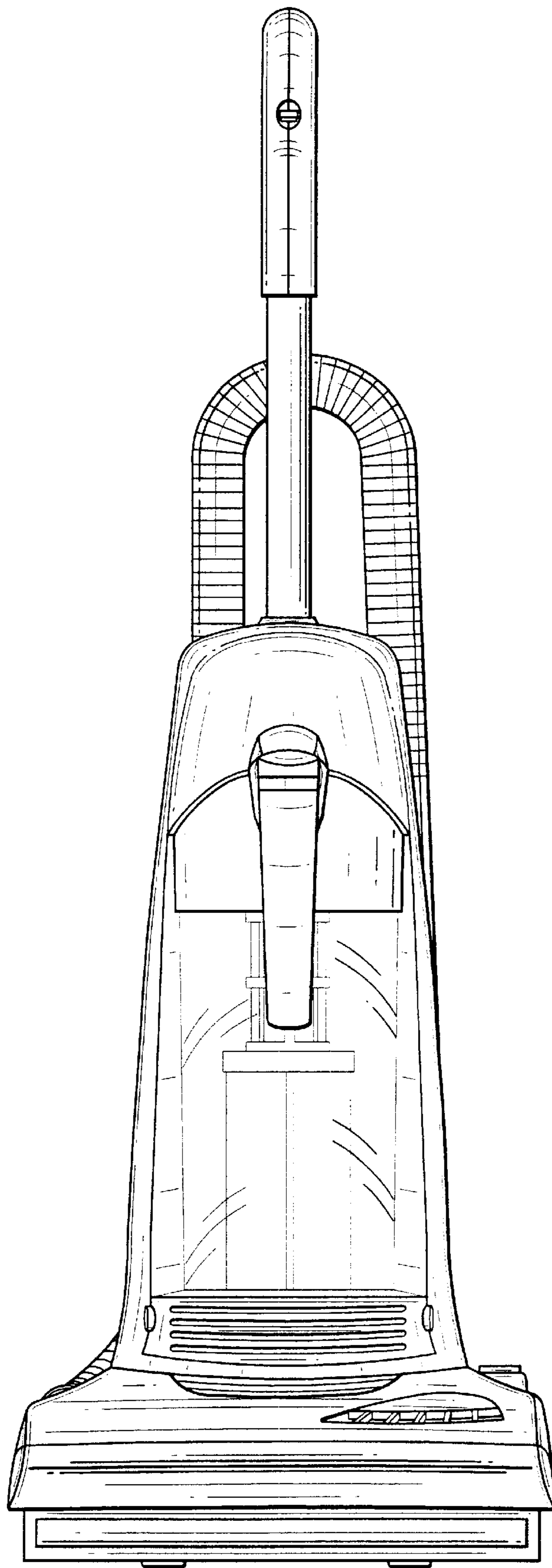


Fig. 2

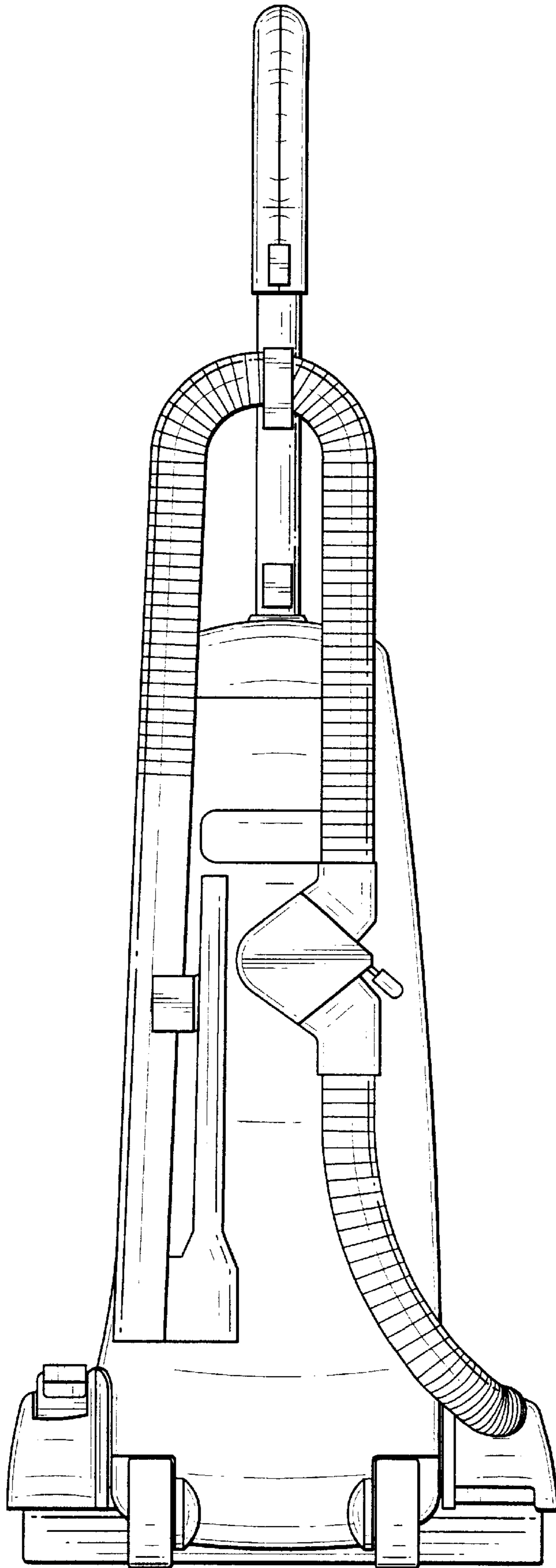


Fig. 3

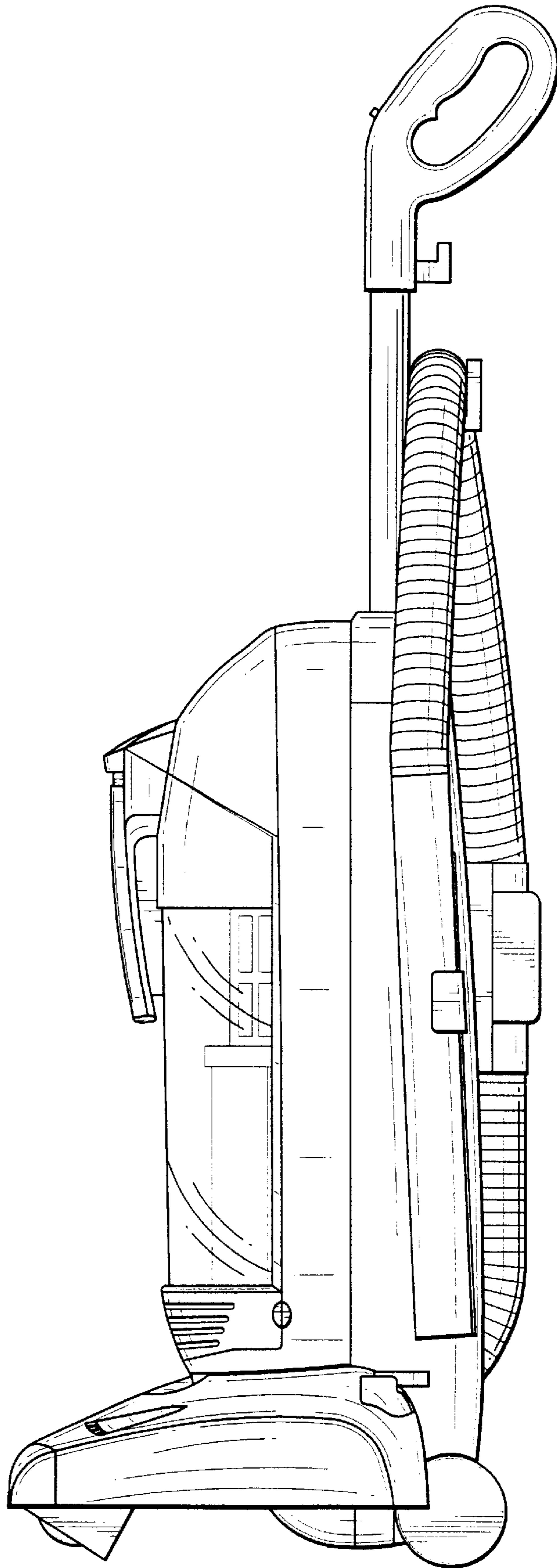


Fig. 4

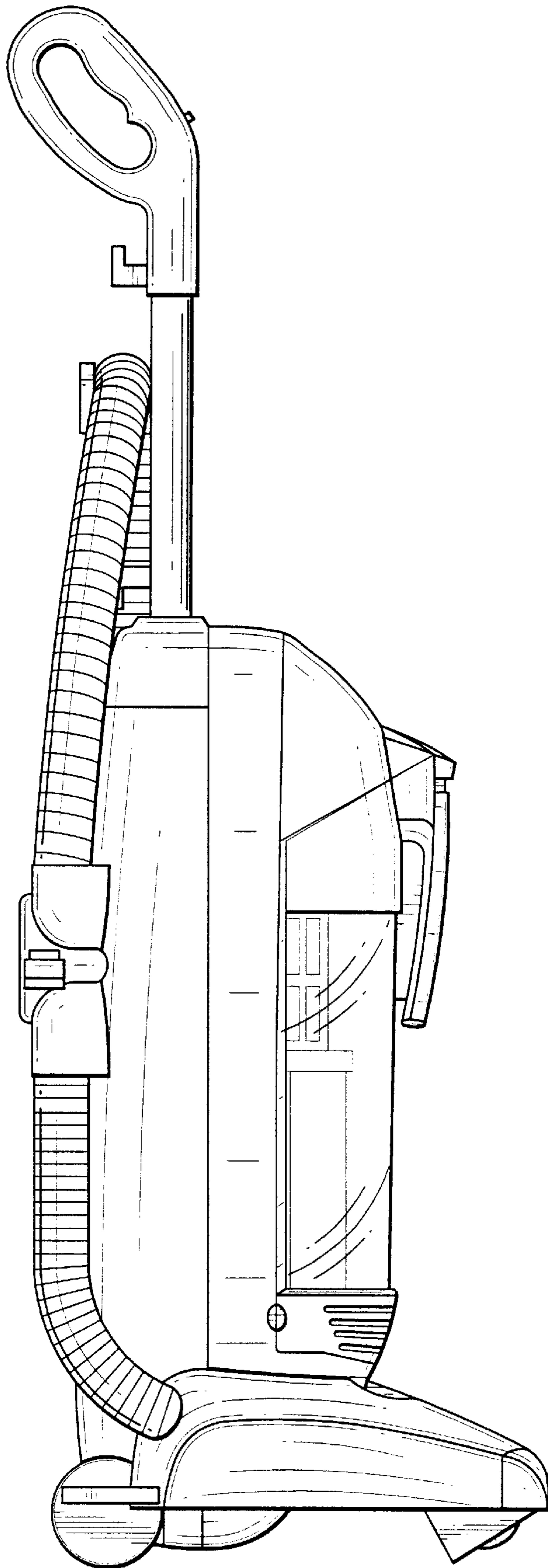


Fig. 5

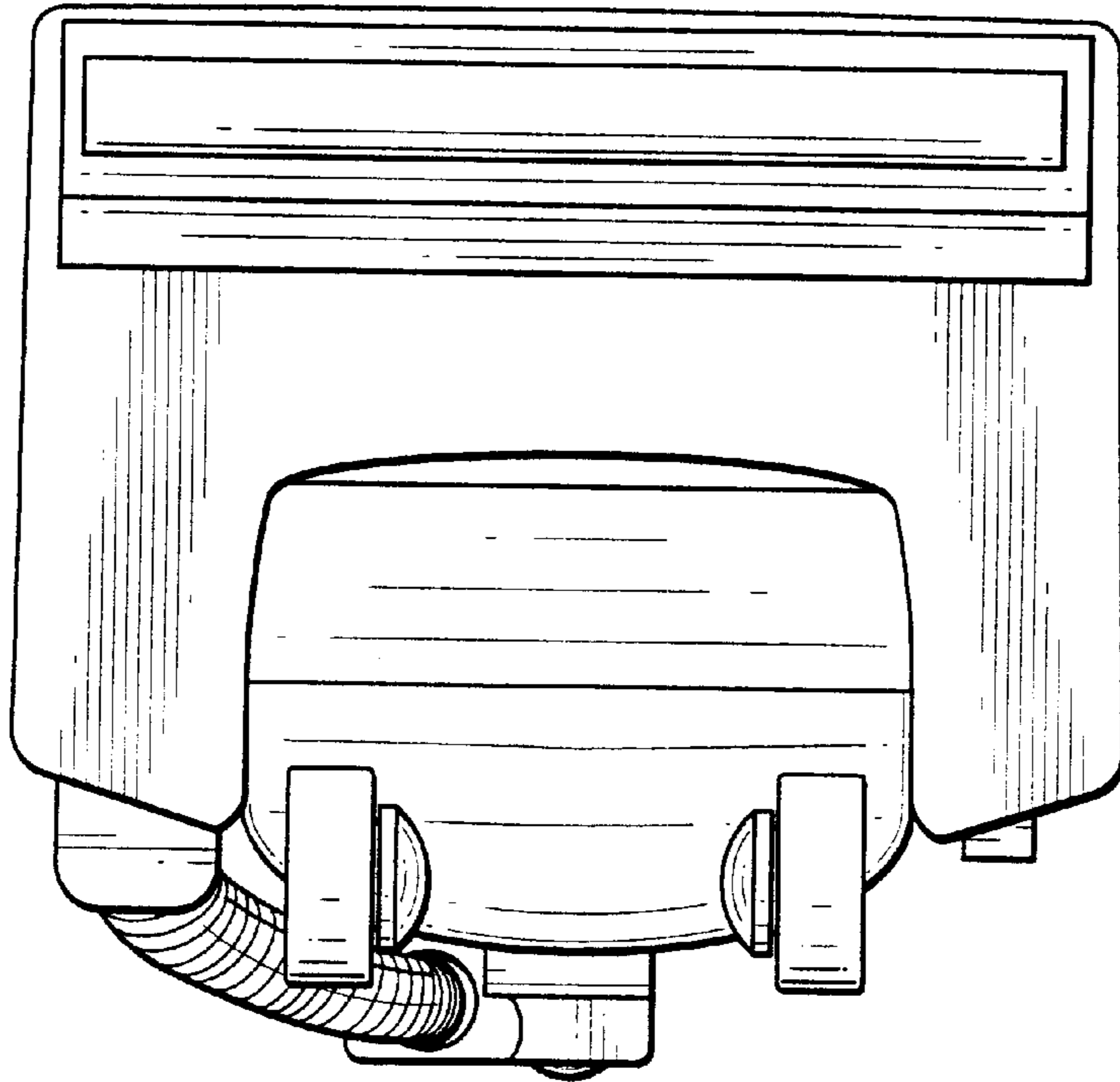


Fig. 6

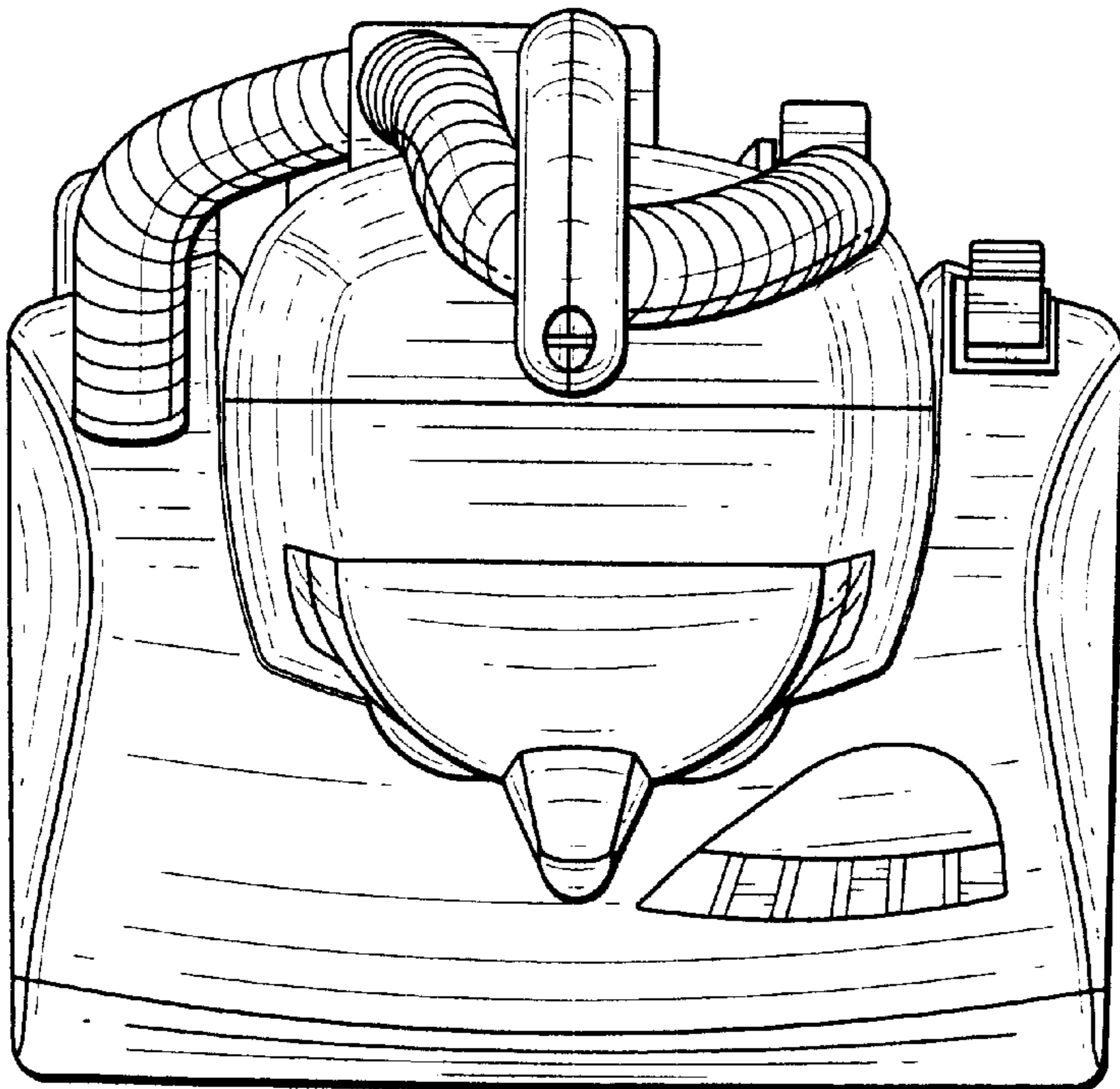


Fig. 7