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

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(54) **VACUUM CLEANER**

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(73) Assignee: **LG Electronics Inc., Seoul (KR)**

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

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(30) **Foreign Application Priority Data**

Nov. 7, 2001 (KR) ..... 2001-31172

(51) **LOC (7) Cl.** ..... **15-05**

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

(58) **Field of Search** ..... D32/17-18, 21-24,  
D32/31; 15/344, 329, 320-321, 352-353,  
327.1-327.7; 55/459.1-459.2, 449, DIG. 3;  
95/271

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- D399,618 S \* 10/1998 Jacobs ..... D32/22
- D418,266 S \* 12/1999 Medema et al. .... D32/22
- D421,164 S \* 2/2000 Luebbering ..... D32/22
- D430,961 S \* 9/2000 Bobrosky et al. .... D32/22

- D437,666 S \* 2/2001 Park ..... D32/22
- D440,018 S \* 4/2001 Oh ..... D32/22
- D443,004 S \* 5/2001 Chan ..... D21/526
- D455,530 S \* 4/2002 Fujii ..... D32/22
- D462,813 S \* 9/2002 Nakano et al. .... D32/22
- D462,814 S \* 9/2002 Sugimoto ..... D32/22
- D469,226 S \* 1/2003 Stephens ..... D32/31

\* cited by examiner

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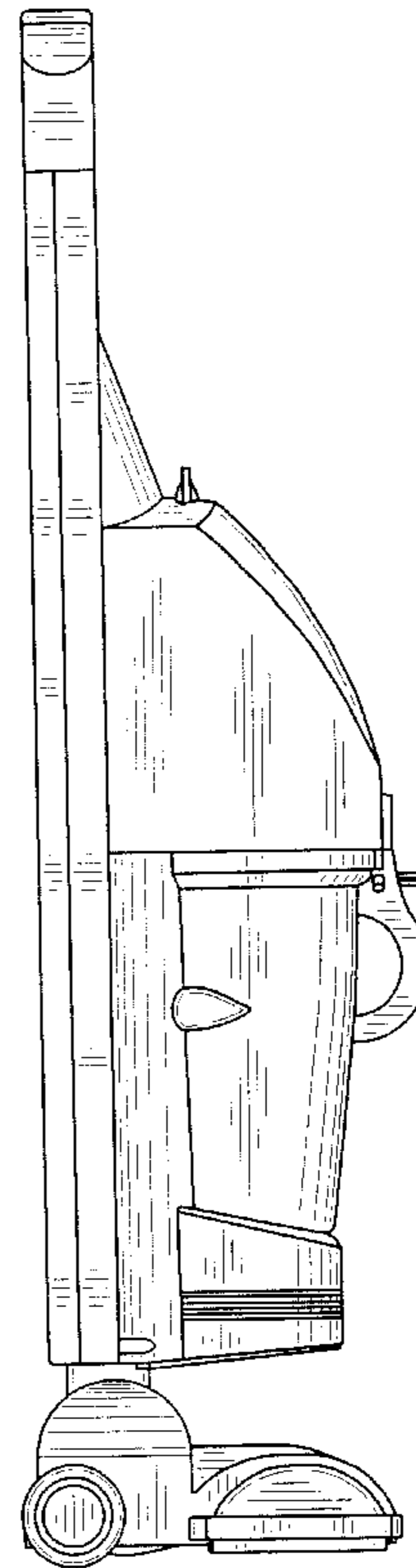
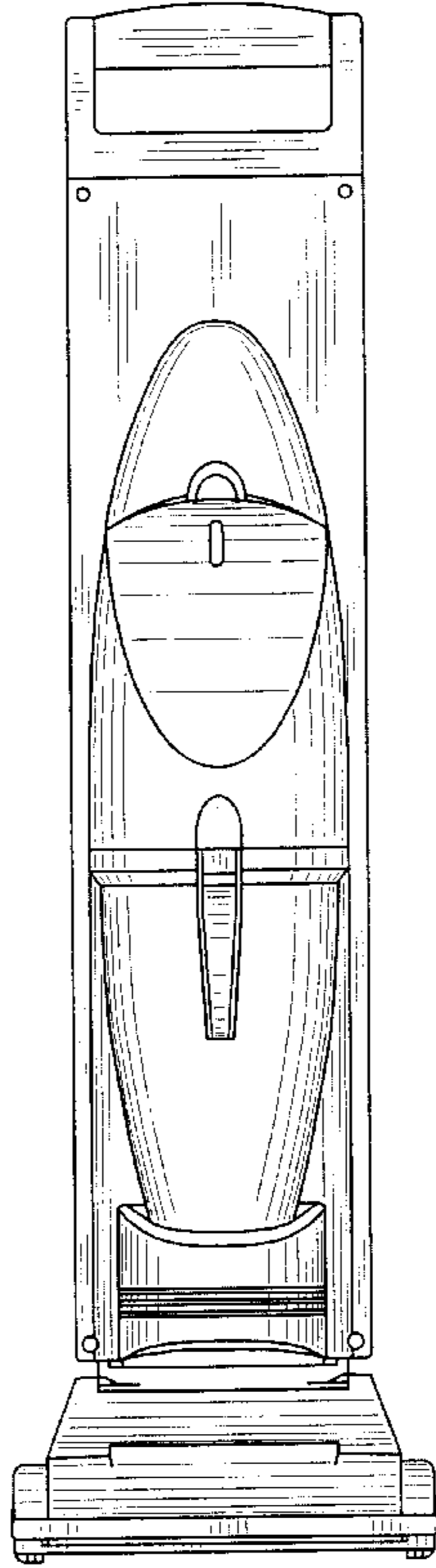
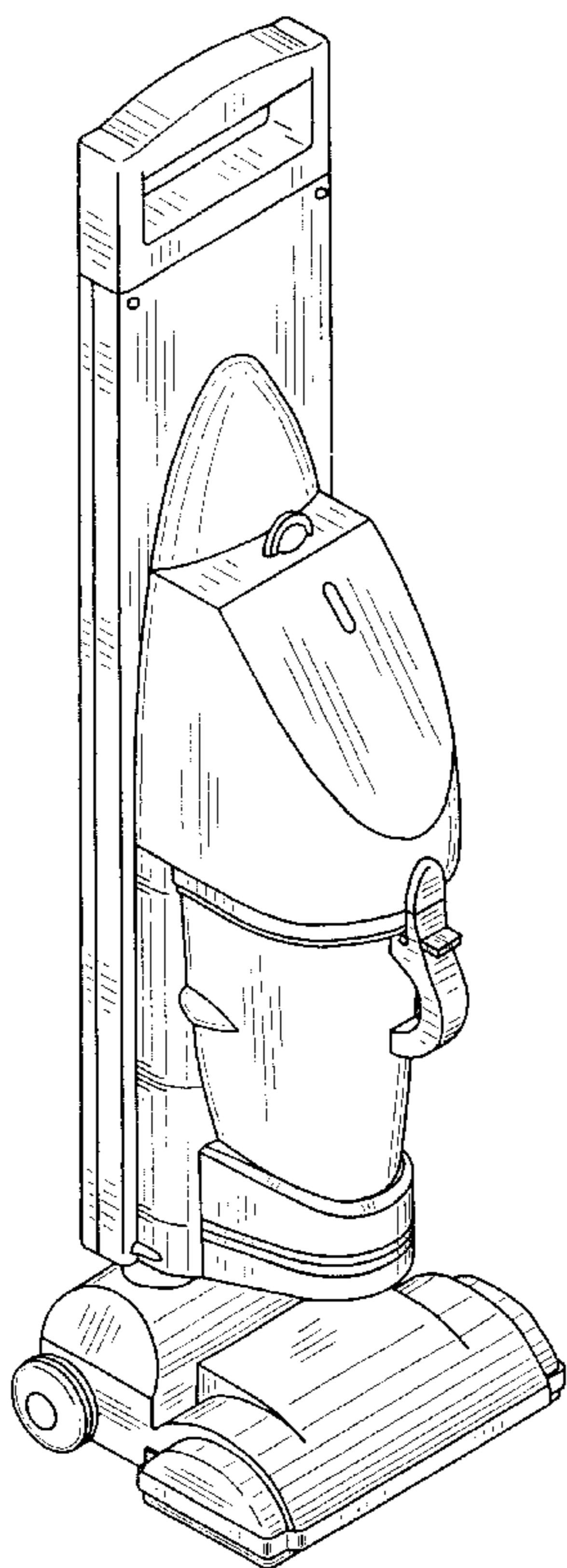
(57) **CLAIM**

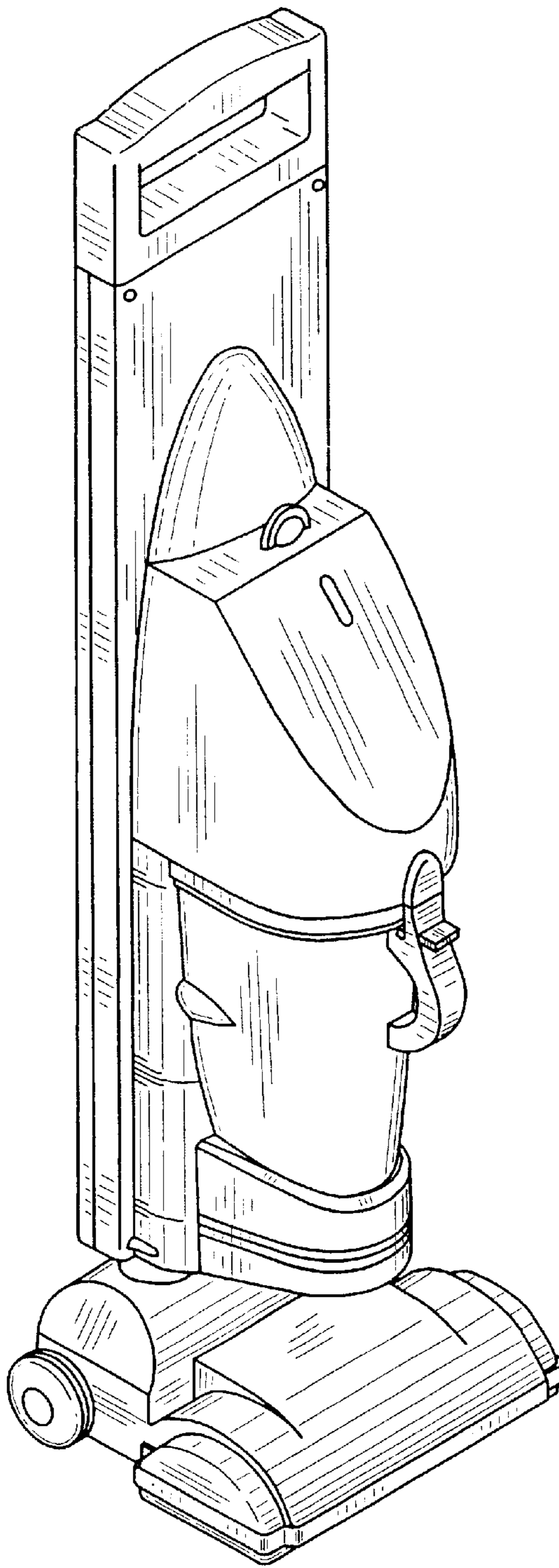
The ornamental design for a vacuum cleaner, as shown and described.

**DESCRIPTION**

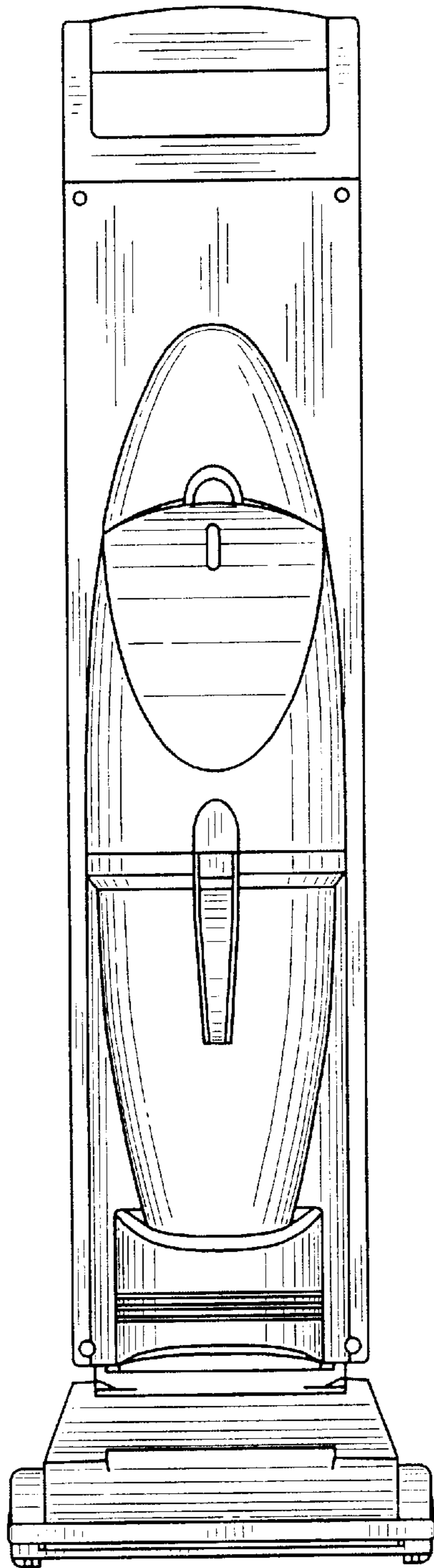
FIG. 1 is a front, left perspective view of the vacuum cleaner showing our new design;  
 FIG. 2 is a front view thereof;  
 FIG. 3 is a rear view thereof;  
 FIG. 4 is a left side plan view thereof, the right side being a mirror image thereof;  
 FIG. 5 is a top plan view thereof; and,  
 FIG. 6 is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

**1 Claim, 5 Drawing Sheets**

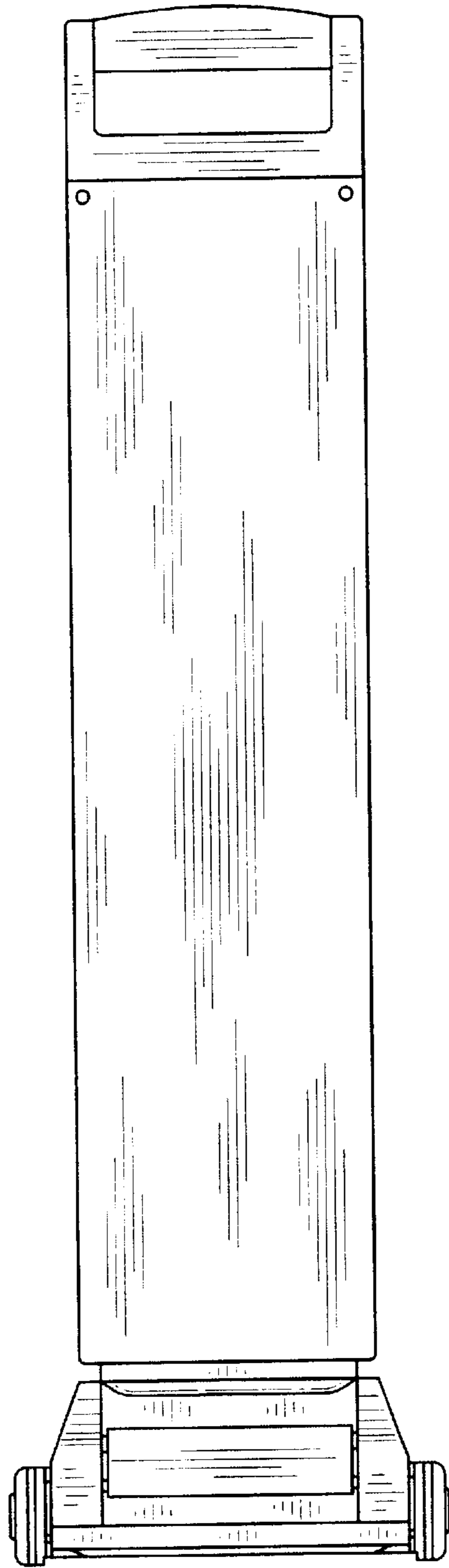




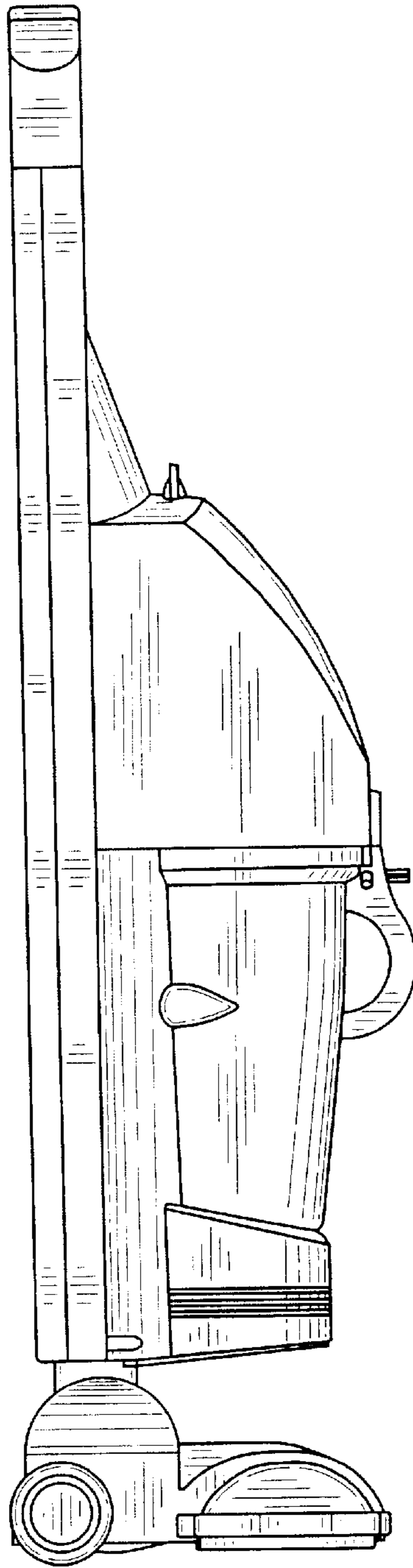
**FIG. 1**



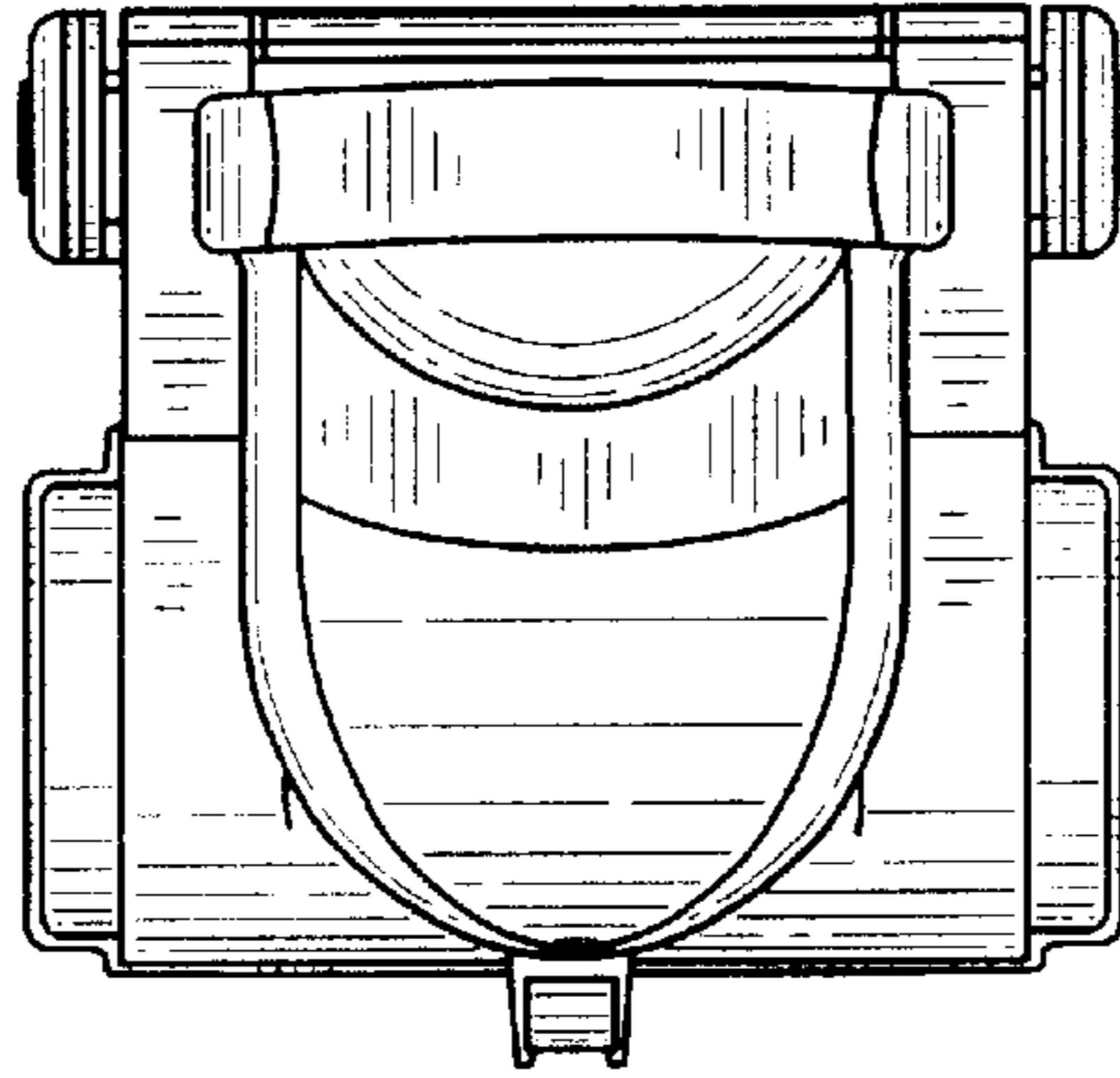
**FIG. 2**



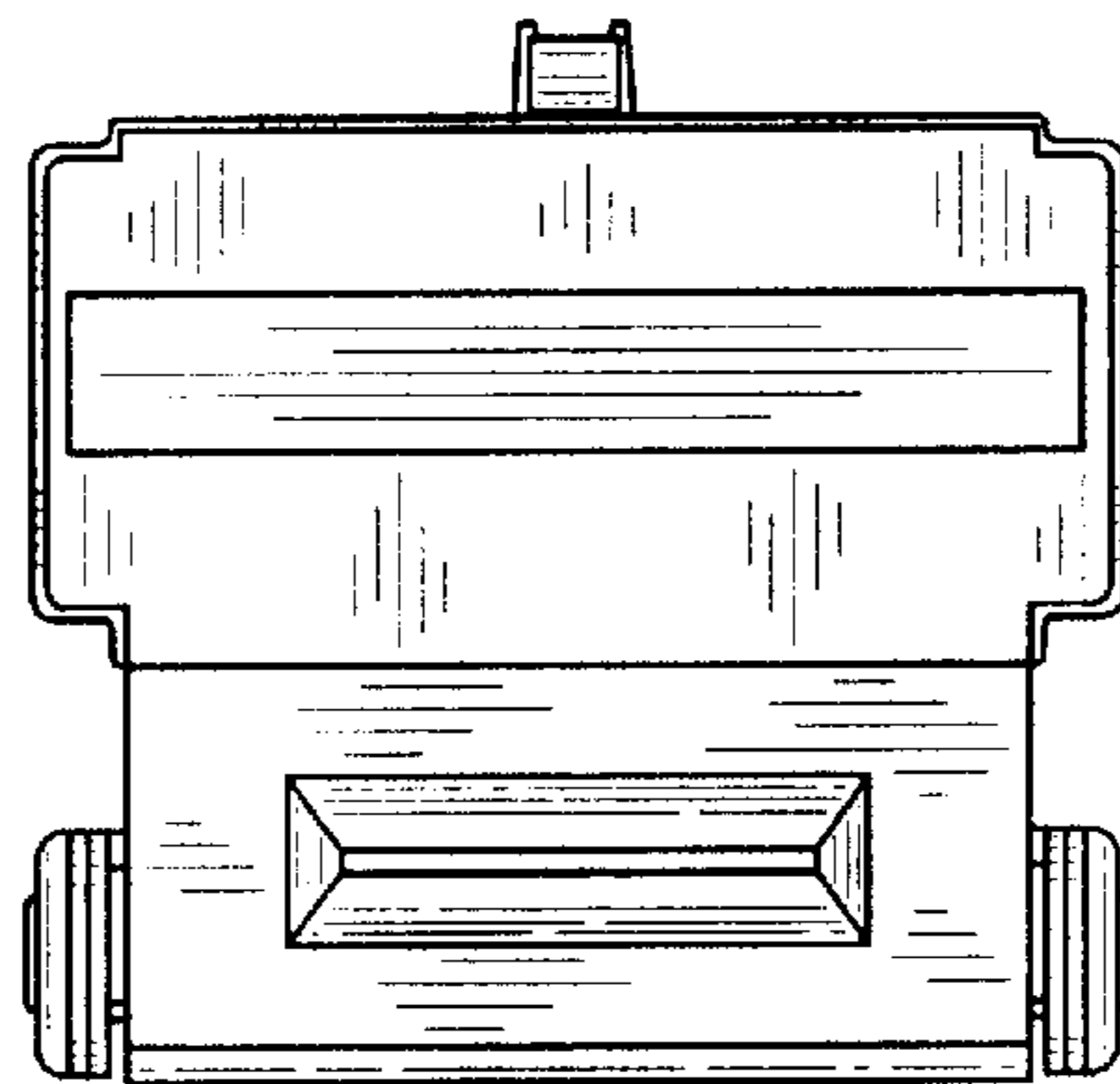
**FIG. 3**



**FIG. 4**



**FIG. 5**



**FIG. 6**