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

(10) **Patent No.:** **US D493,585 S**  
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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**

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(52) **U.S. Cl.** ..... **D32/21**

(58) **Field of Search** ..... D32/21, 23-24,  
D32/31; 15/327.1, 327.2, 327.3, 327.4,  
327.6, 327.7, 320-321, 347, 353

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D315,431 S \* 3/1991 Ikeda et al. .... D32/21  
D325,273 S \* 4/1992 Ikeda et al. .... D32/21  
D373,665 S \* 9/1996 Nakamura et al. .... D32/21  
D391,700 S \* 3/1998 Hughes ..... D32/21

D394,527 S \* 5/1998 Pochopien et al. .... D32/21  
D394,528 S \* 5/1998 Pochopien et al. .... D32/21  
D417,323 S \* 11/1999 Fujita et al. .... D32/21  
D430,711 S \* 9/2000 Piret ..... D32/21  
D485,653 S \* 1/2004 Warburton ..... D32/21

\* cited by examiner

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(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a perspective view of vacuum cleaner showing the 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 plan view thereof; and,  
FIG. 7 is a bottom plan view thereof.

**1 Claim, 5 Drawing Sheets**

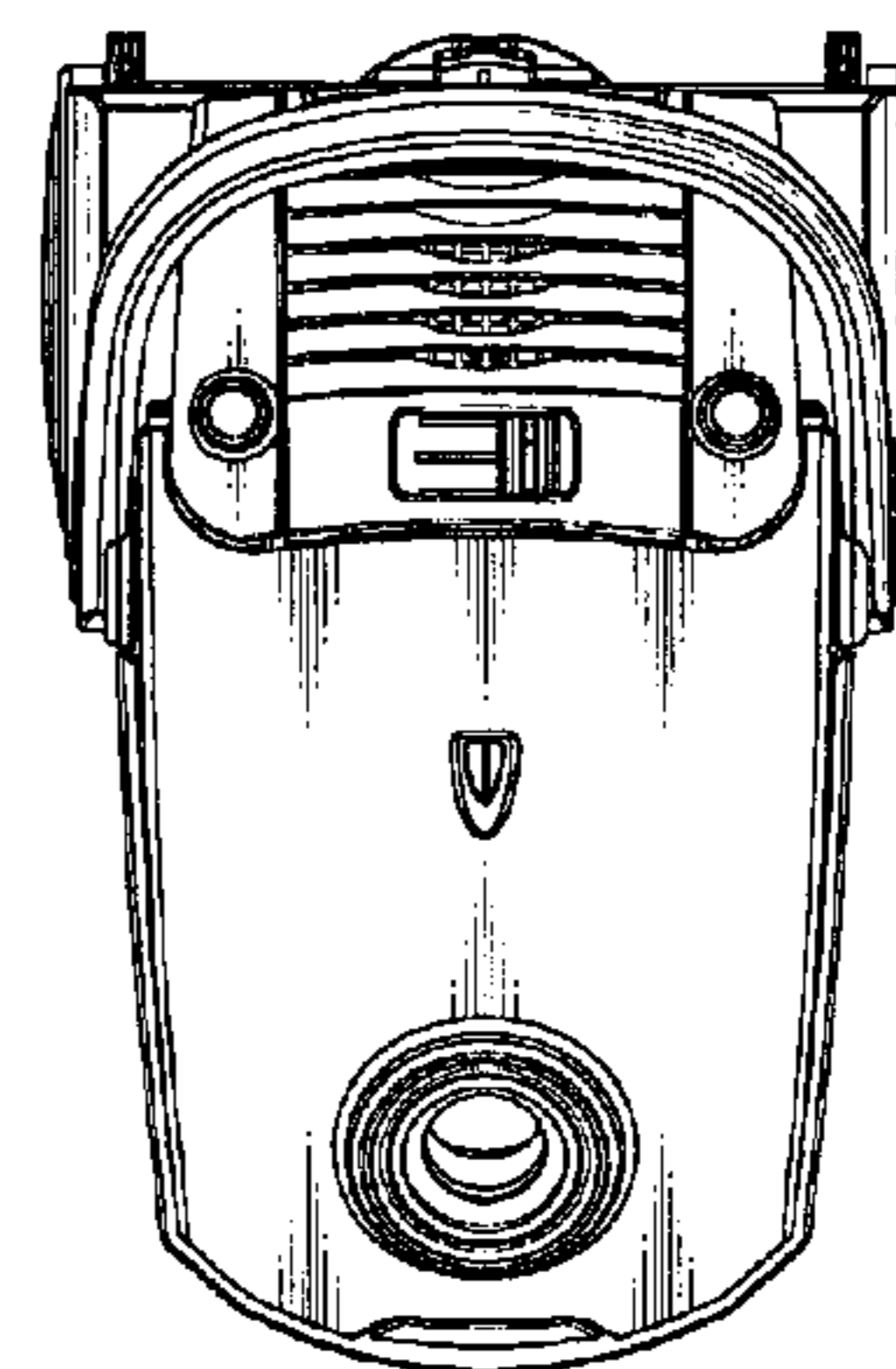
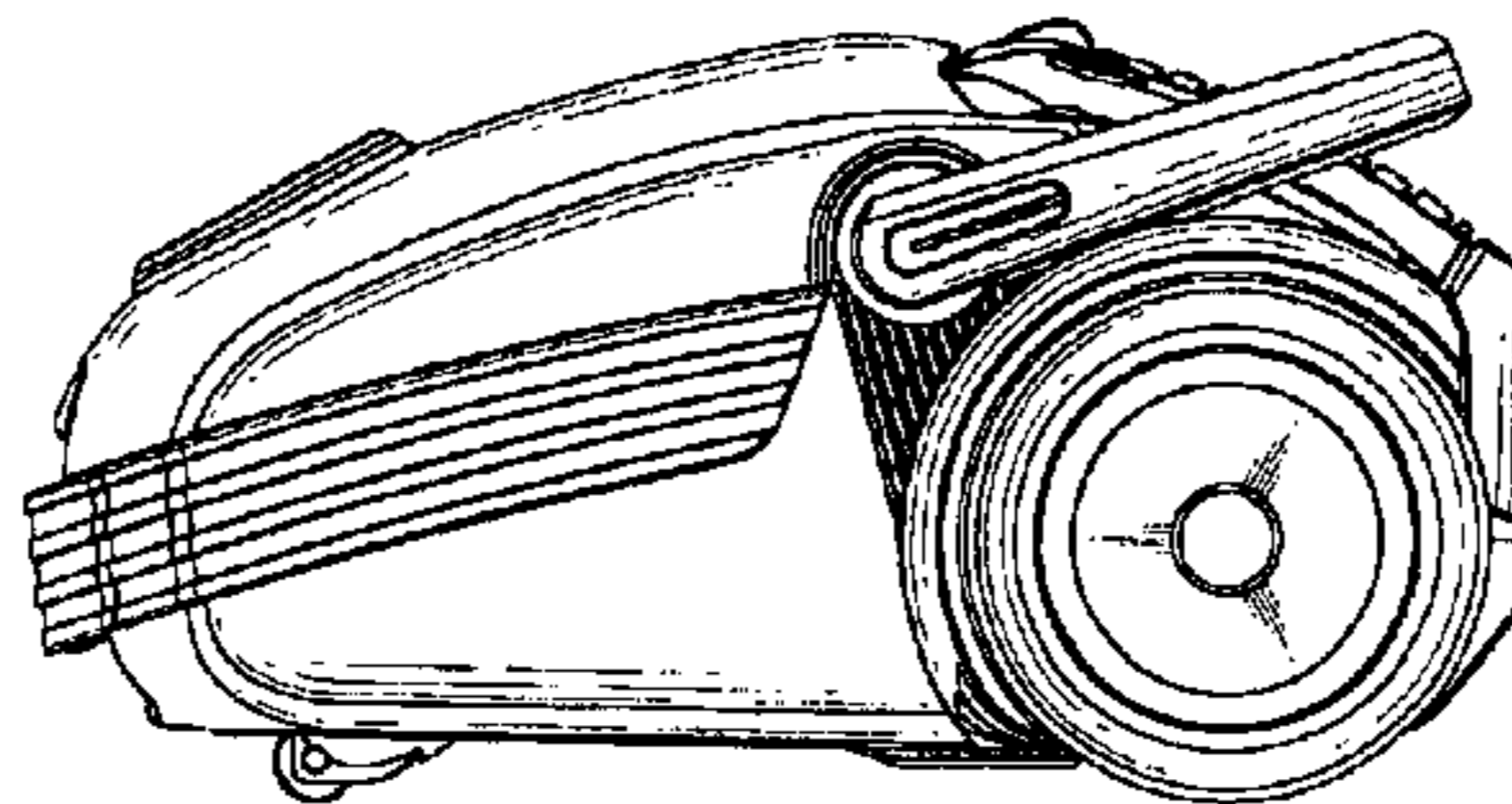
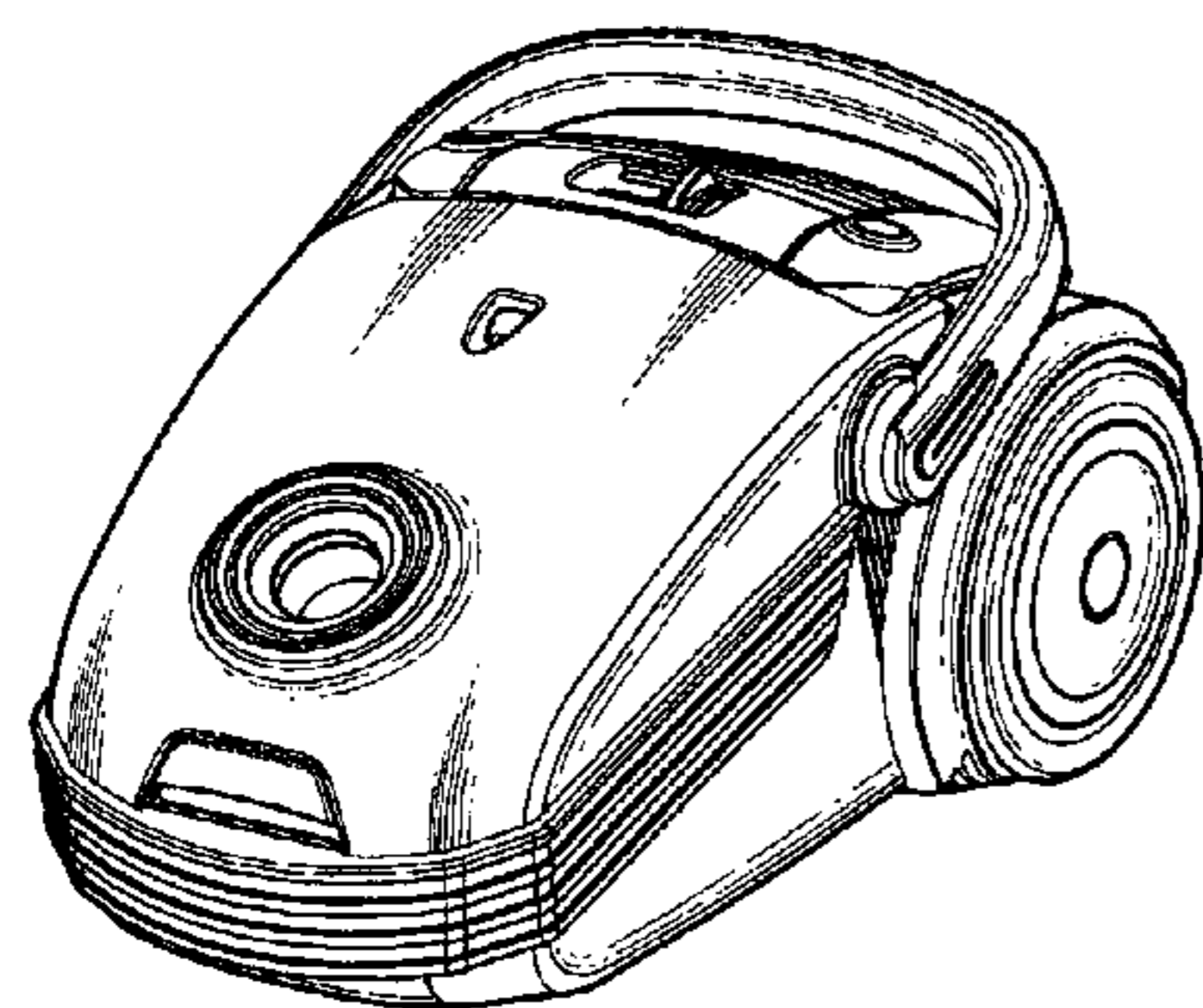


FIG. 1

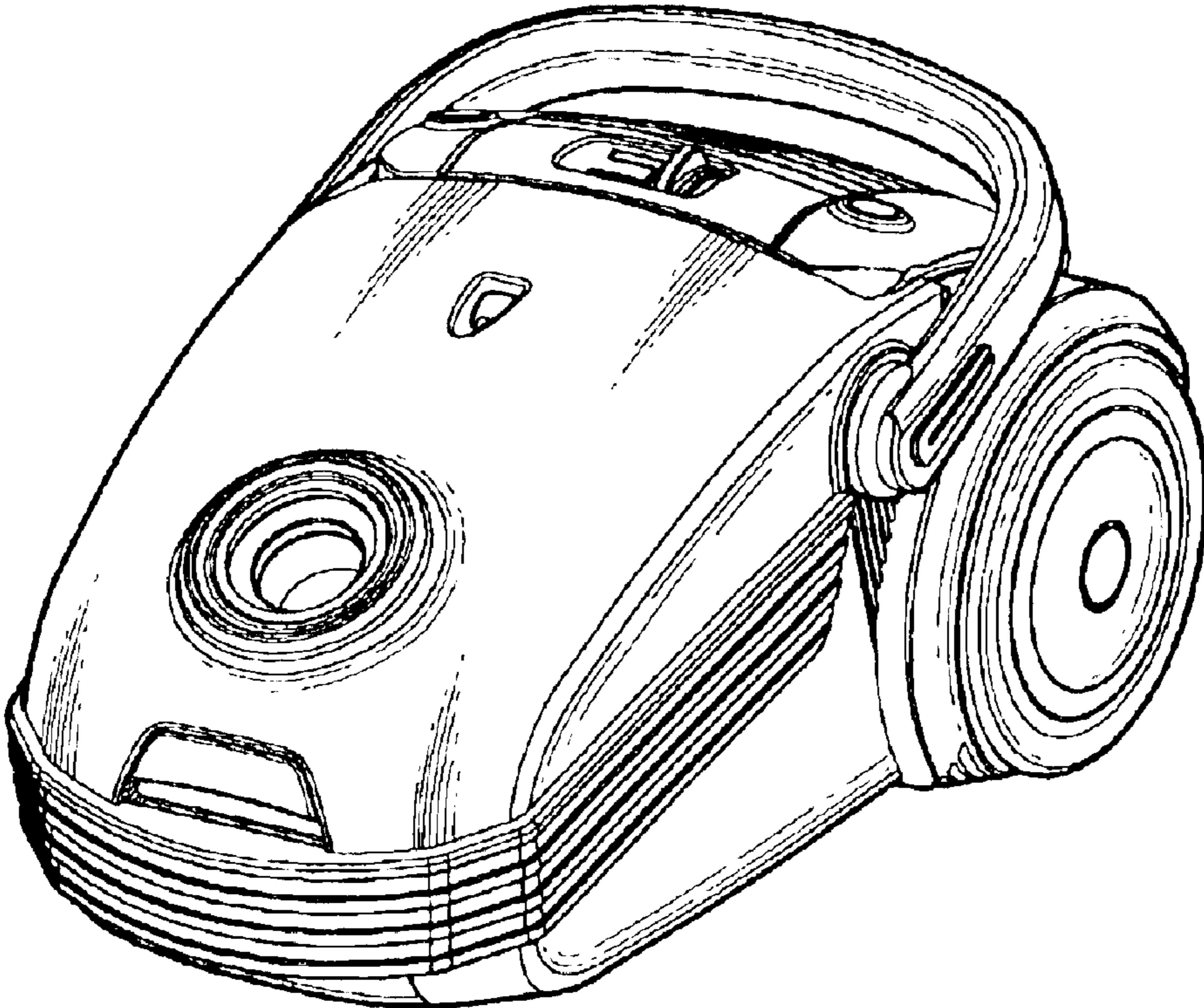


FIG. 2

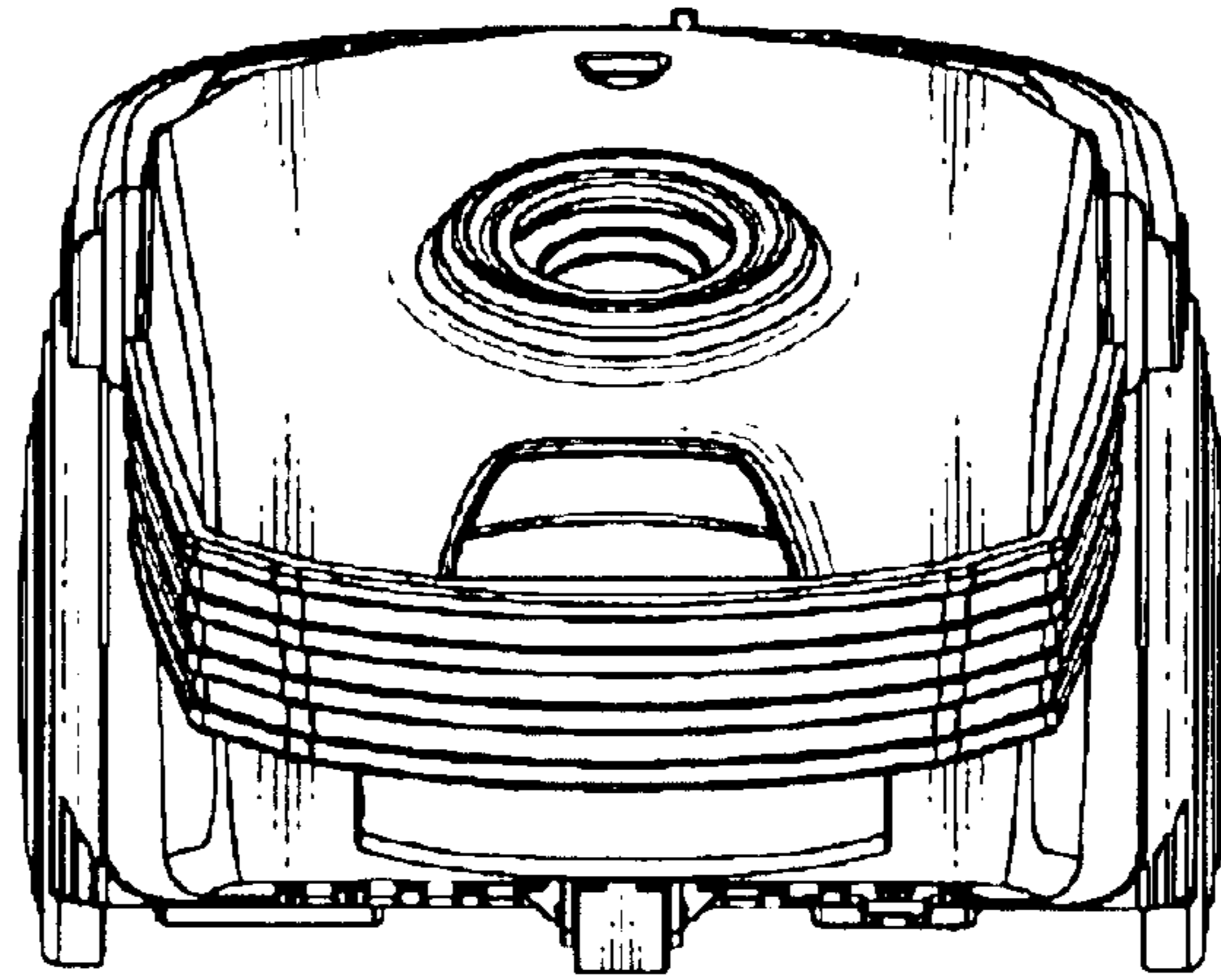


FIG. 3

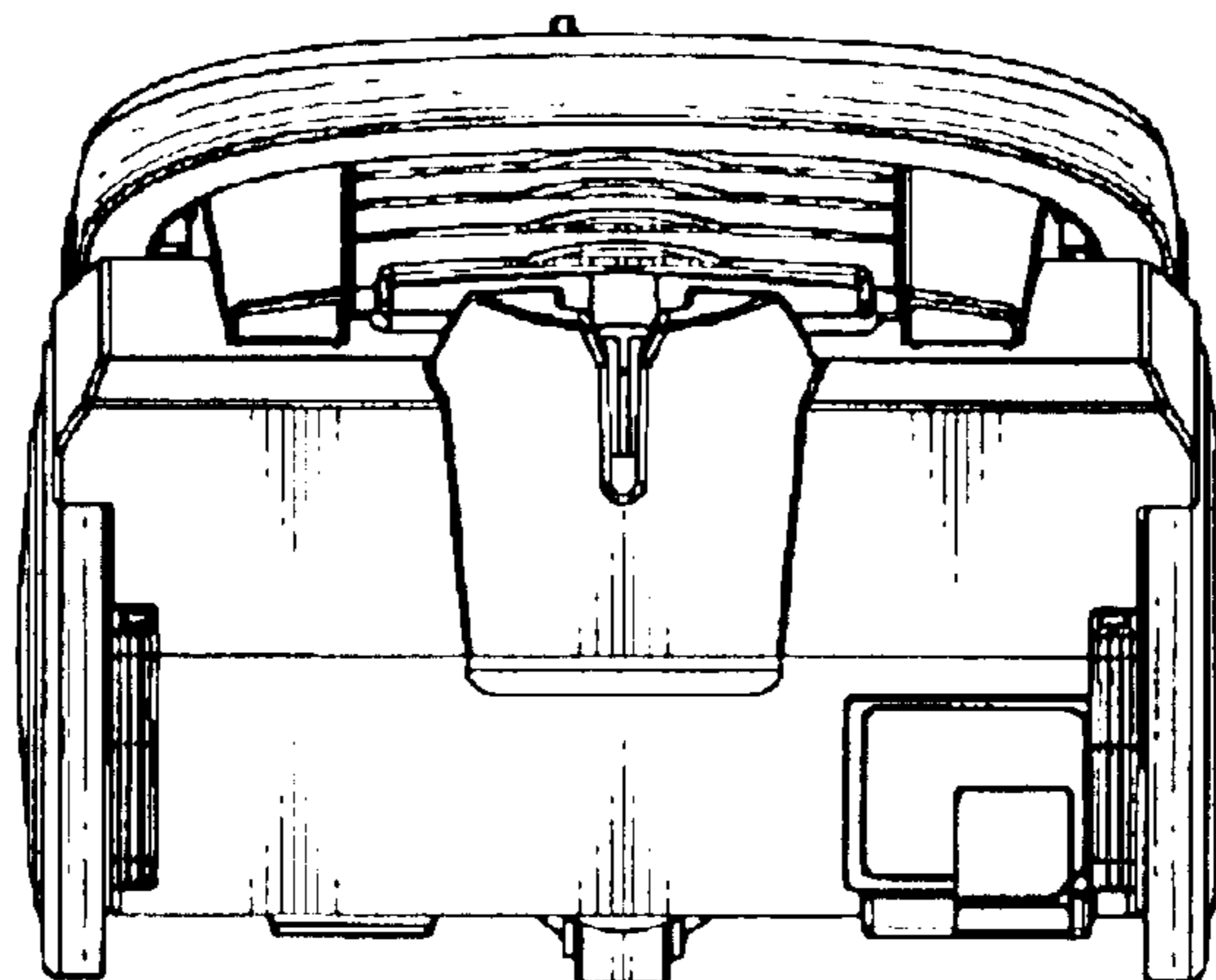


FIG. 4

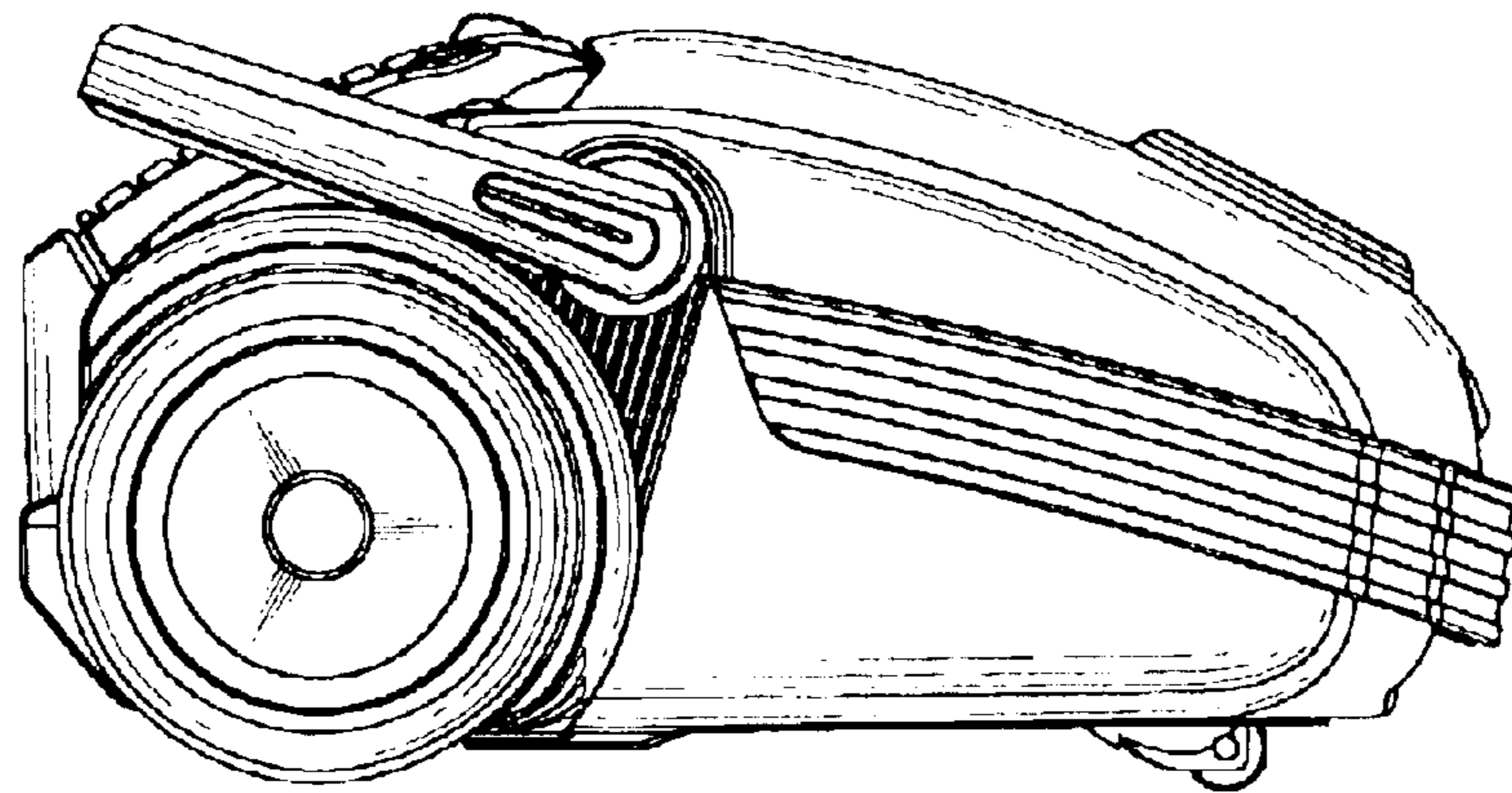


FIG. 5

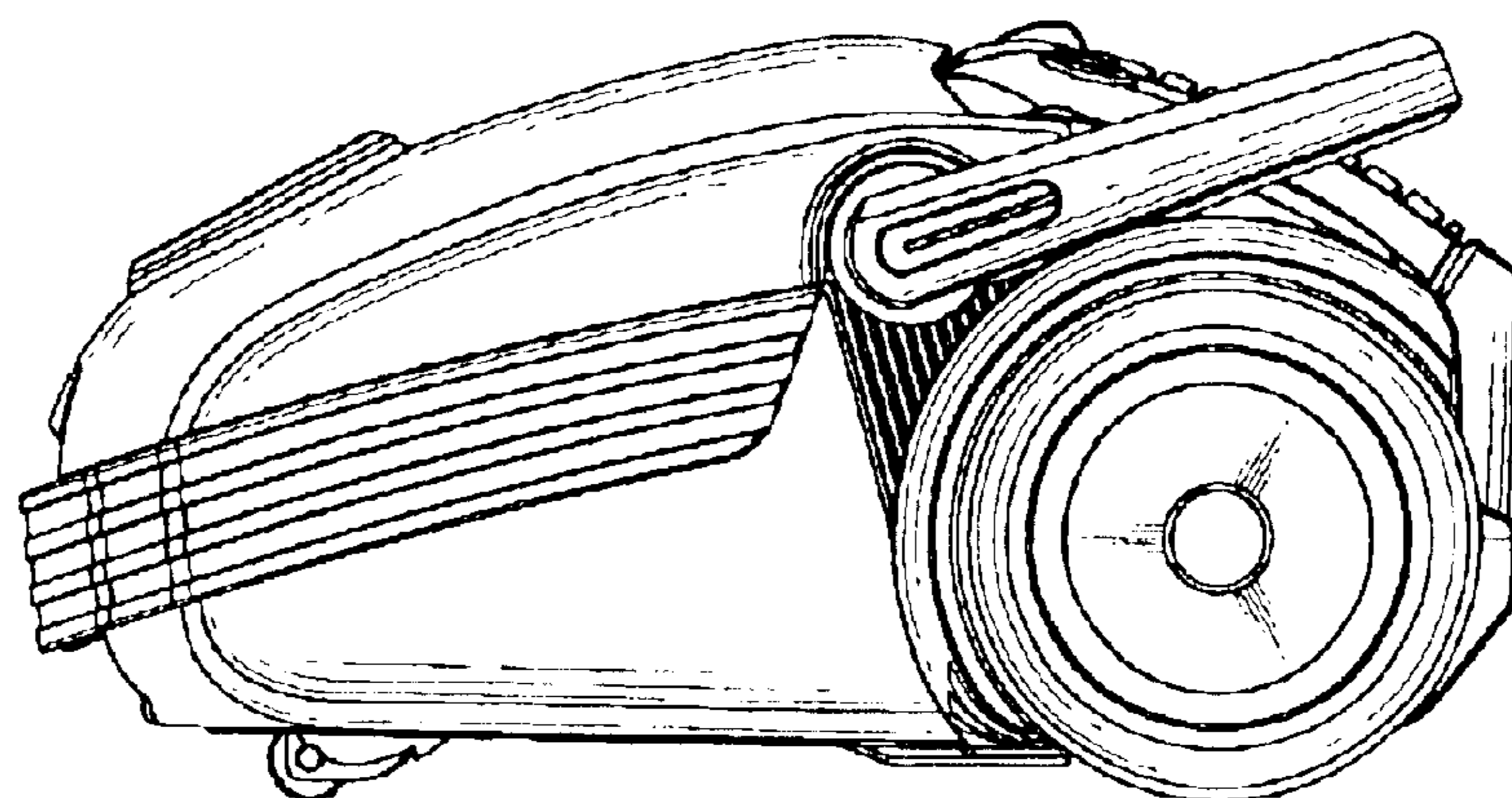




FIG. 6

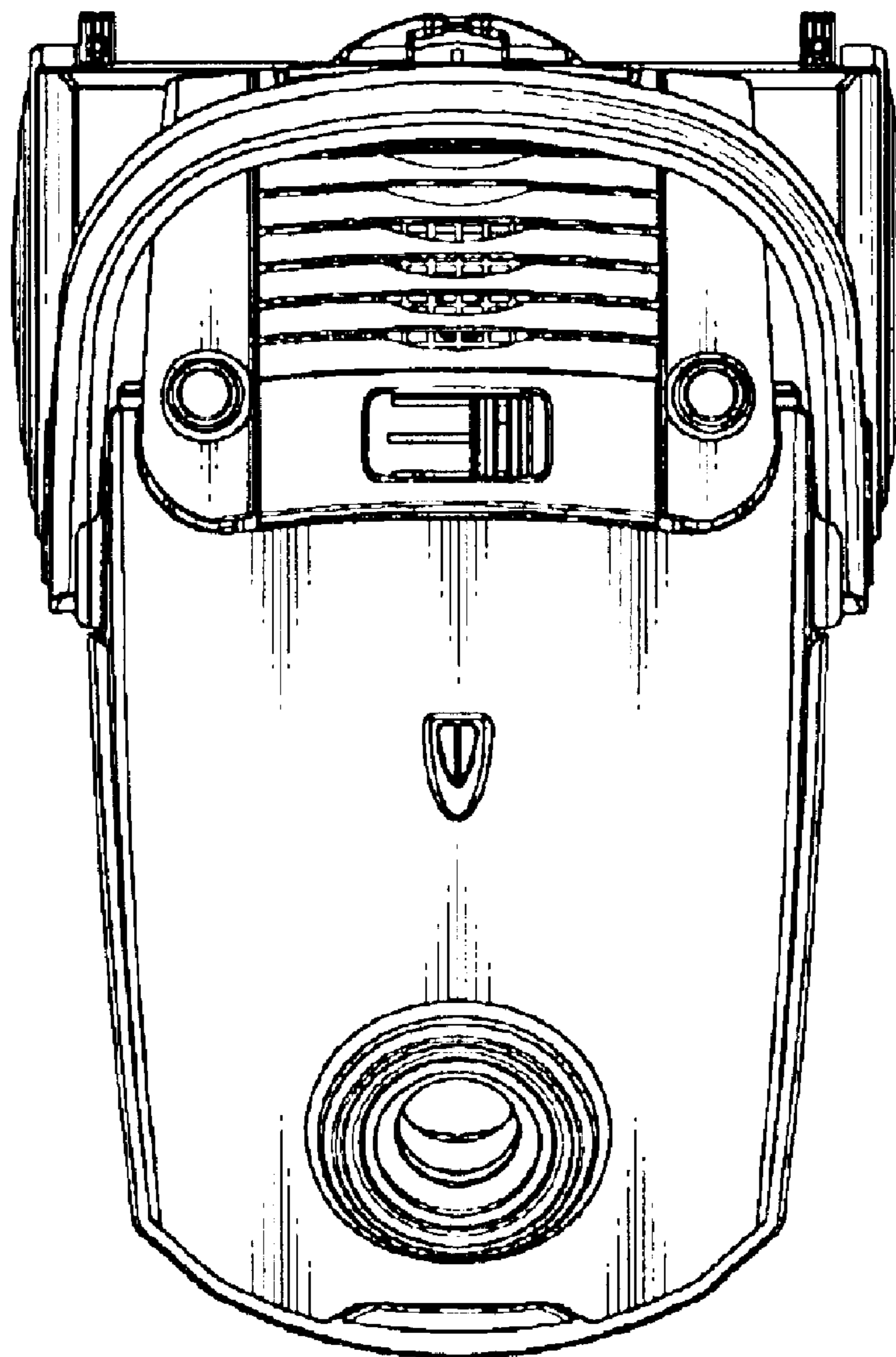


FIG. 7

