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

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(45) **Date of Patent:** **\*\* May 12, 2015**

(54) **VACUUM CLEANER**

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (10) Cl.** ..... **15-05**

(52) **U.S. Cl.**  
USPC ..... **D32/18**

(58) **Field of Classification Search**  
USPC ..... D32/17, 18, 31, 21, 23-24; 15/344,  
15/329, 347, 327.1, 327.2, 327.7,  
15/352-353; 55/337, 429, 345, DIG. 3;  
38/77.5, 77.9; 392/384, 404; 68/5 R,  
68/5 A, 222; 223/51, 70, 73

See application file for complete search history.

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(74) *Attorney, Agent, or Firm* — NSIP Law

(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a perspective view of a 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 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.  
The broken lines are for environmental purpose only and form no part of the claimed design.

**1 Claim, 5 Drawing Sheets**

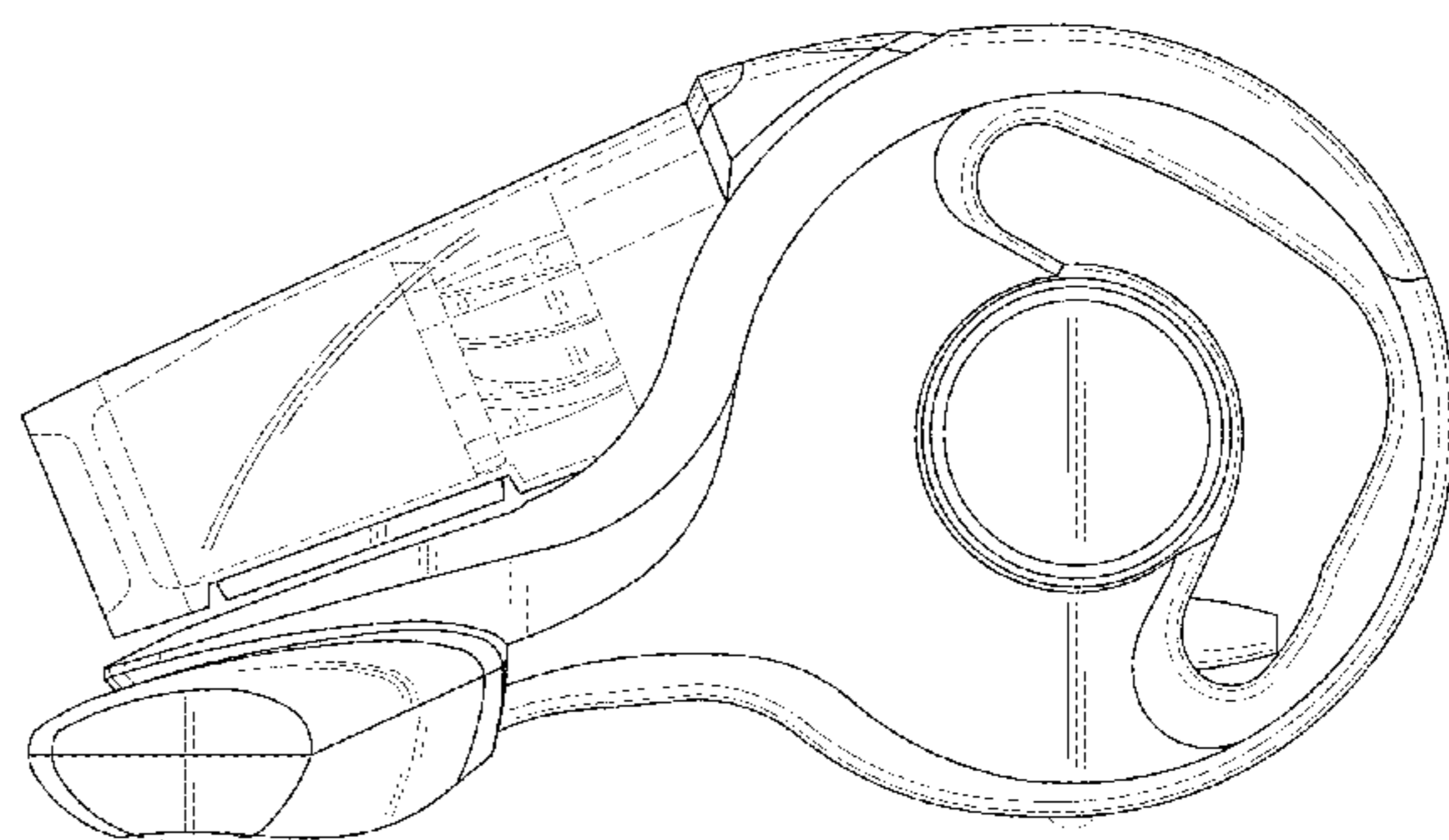
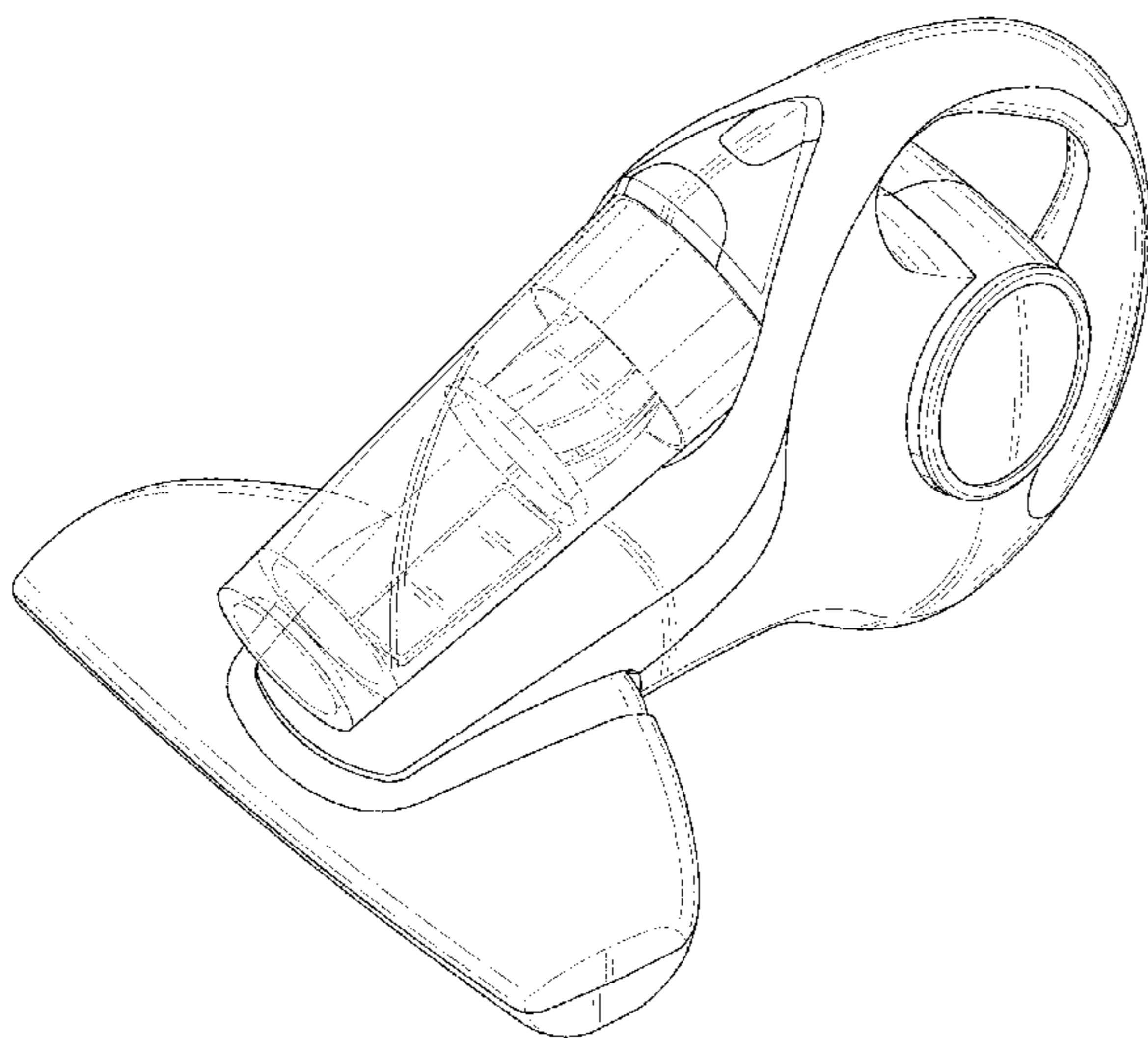


FIG. 1

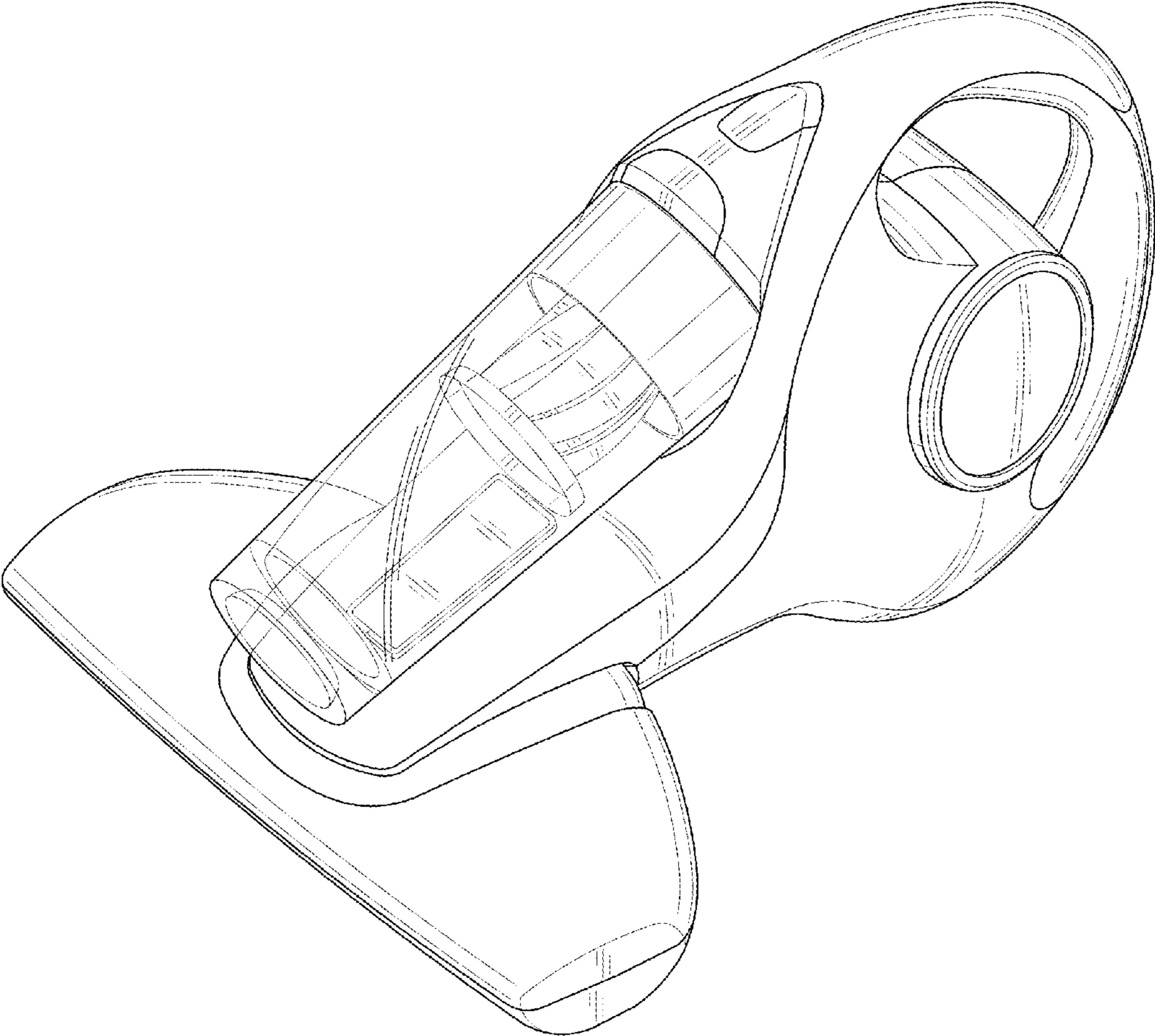


FIG. 2

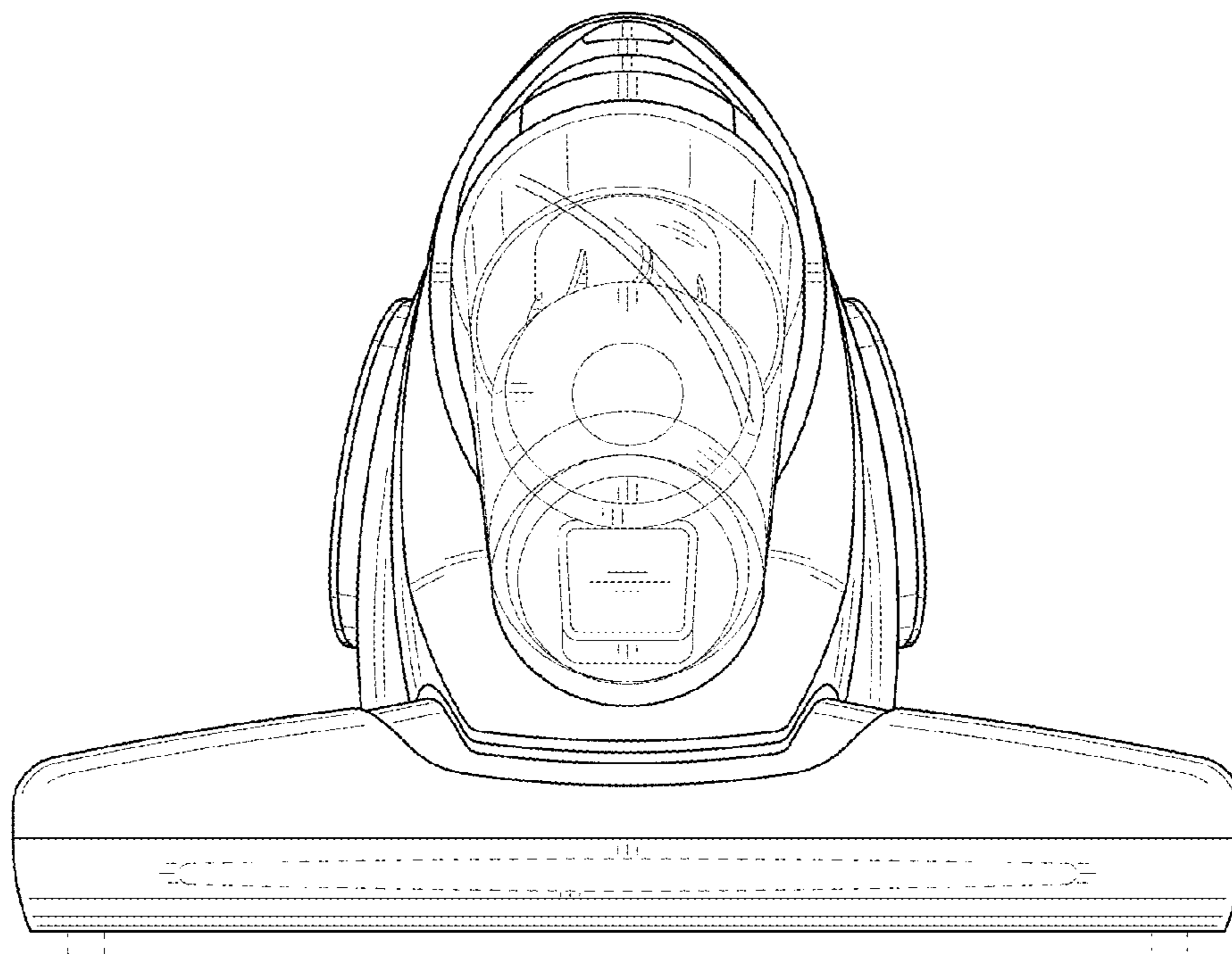


FIG. 3

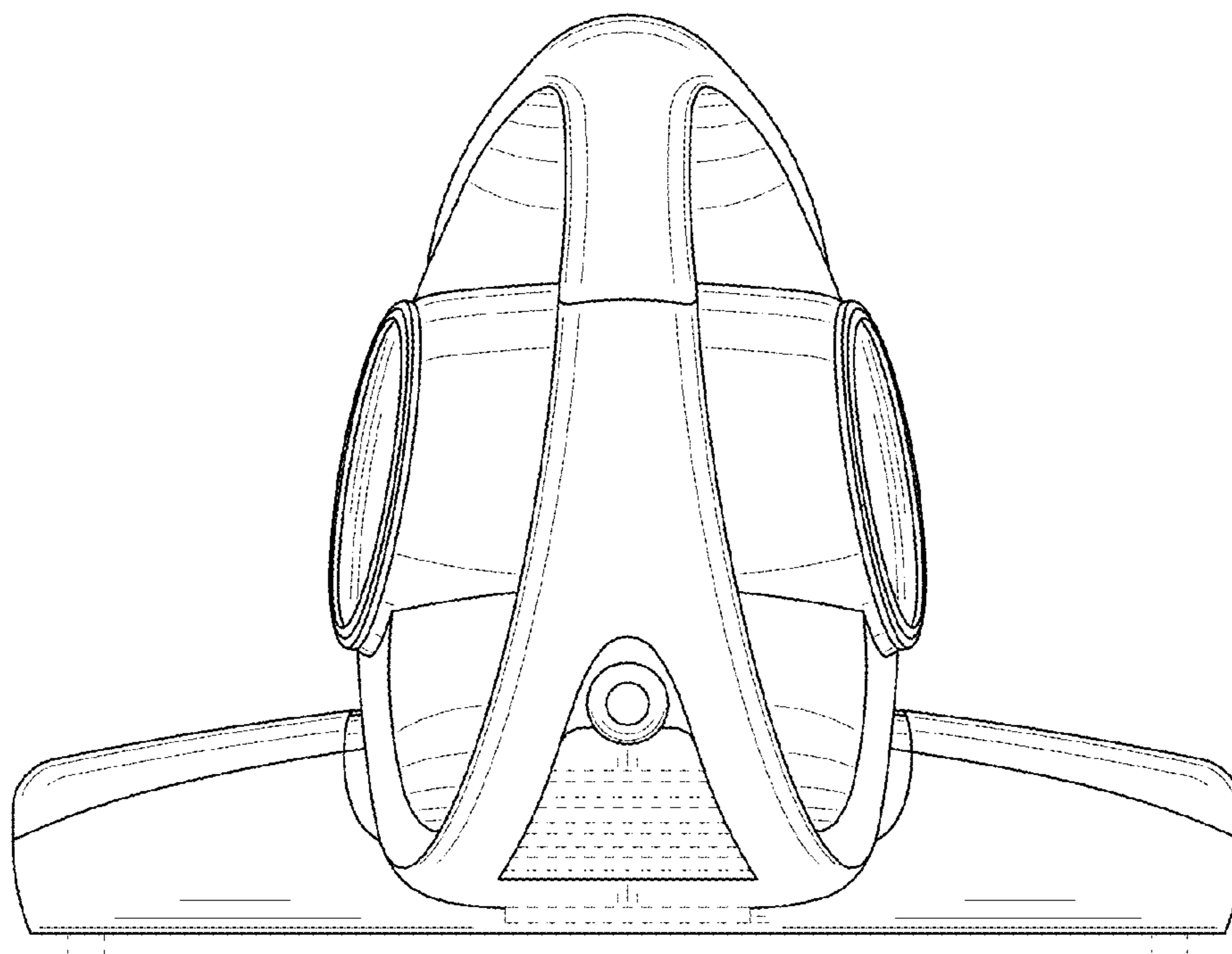




FIG. 4

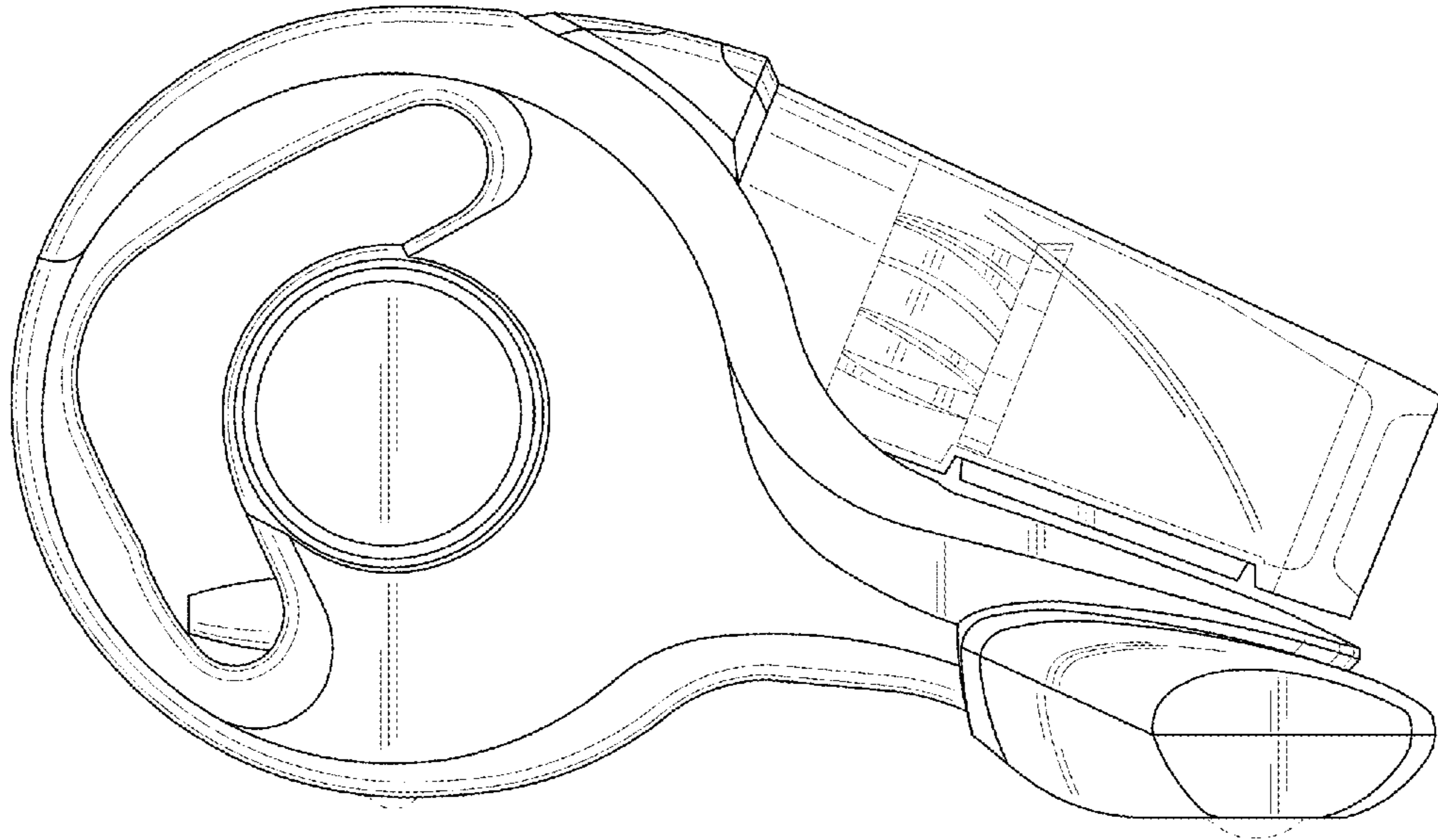


FIG. 5

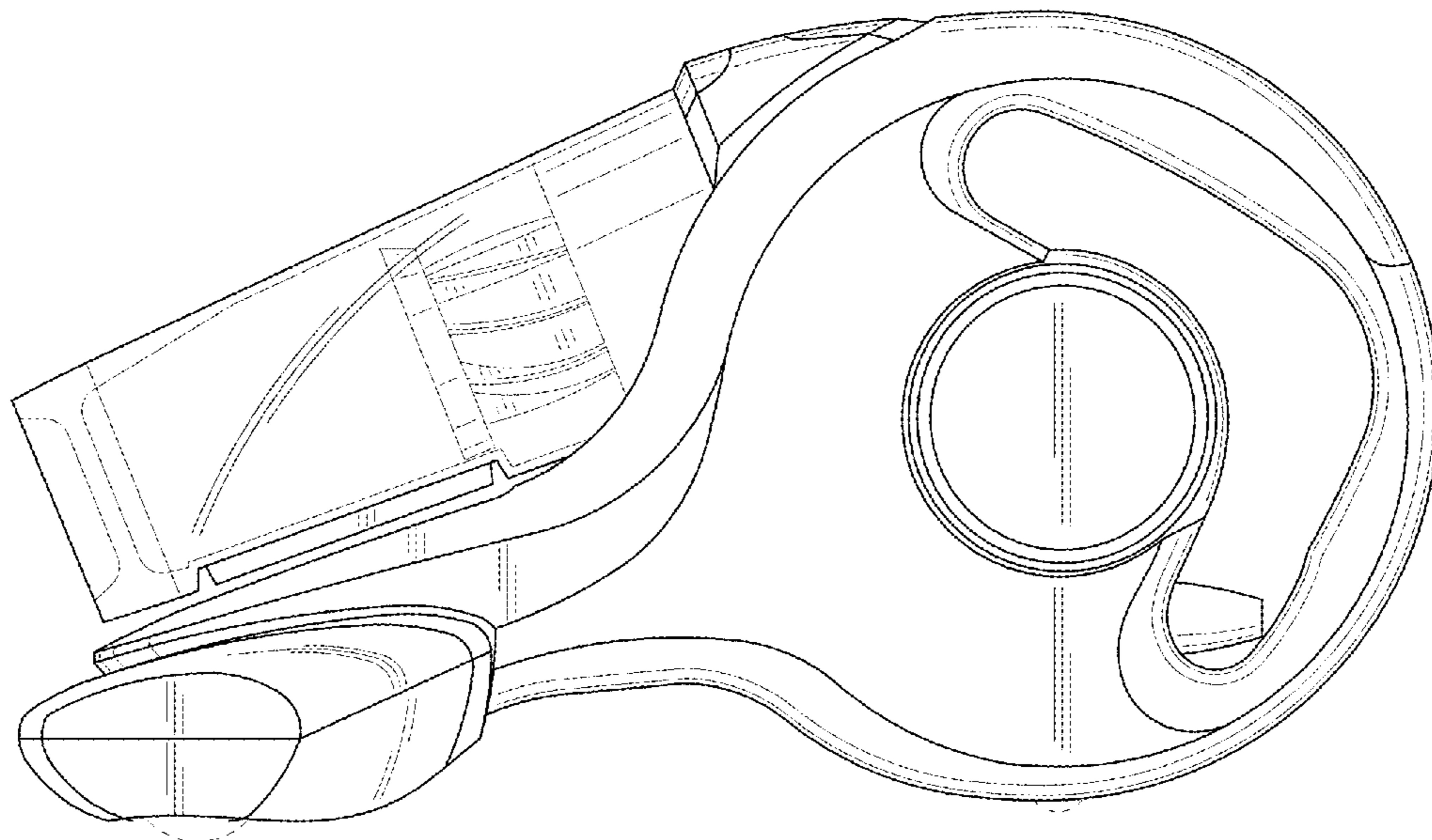


FIG. 6

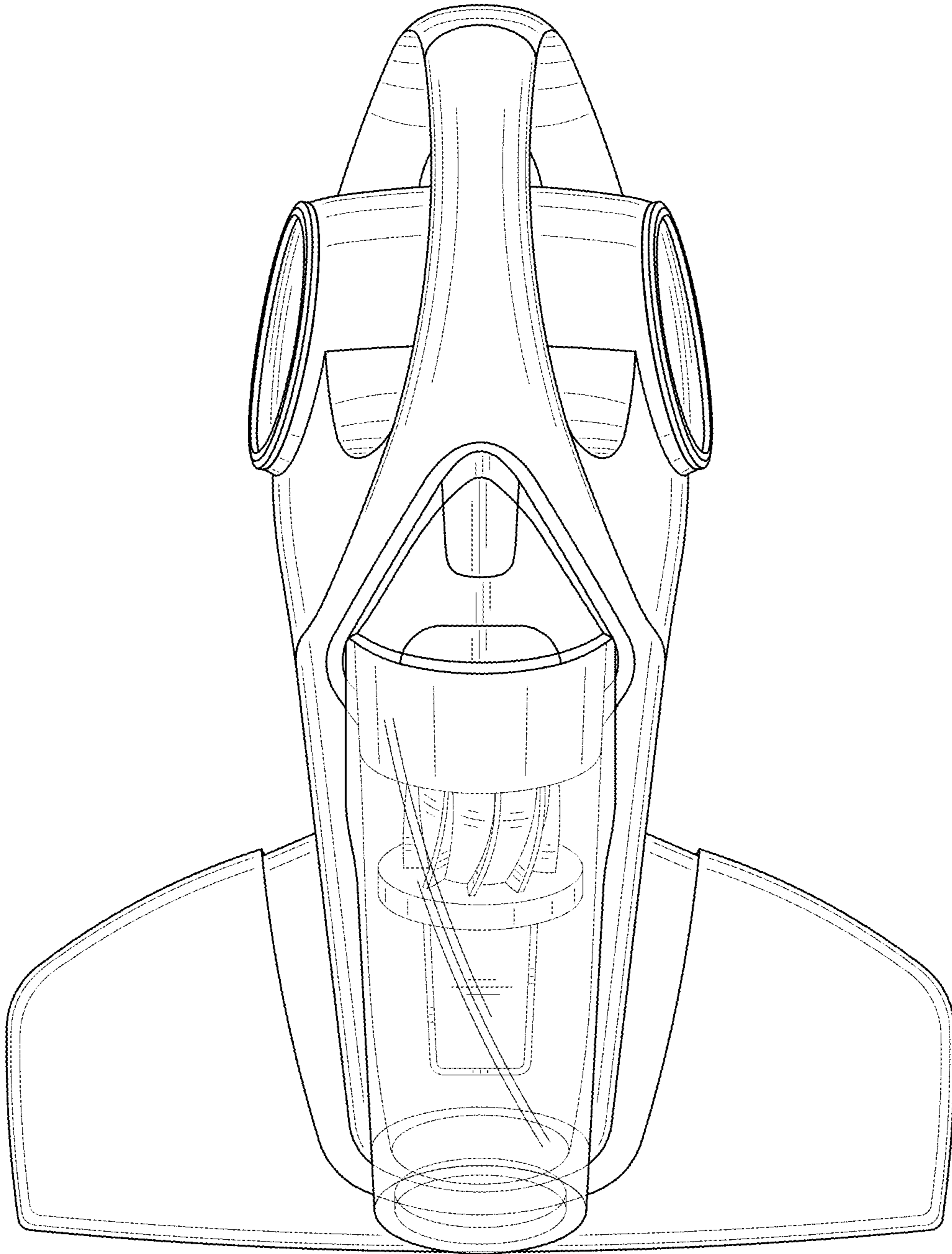


FIG. 7

