



US00D355420S

# United States Patent [19] Cho

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[45] Date of Patent: \*\* Feb. 14, 1995

[54] AIR WHIRLPOOL GENERATOR FOR  
AUTOMOBILE ENGINE

4,478,607 10/1984 Capps ..... 123/592  
4,729,776 3/1988 Elliff ..... 123/592  
5,113,838 5/1992 Kim ..... 123/592

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[\*\*] Term: 14 Years

[57] CLAIM

[21] Appl. No.: 948,807

The ornamental design for an air whirlpool generator for automobile engine, as shown and described.

[22] Filed: Sep. 23, 1992

### DESCRIPTION

[30] Foreign Application Priority Data

Jul. 15, 1992 [KR] Rep. of Korea ..... 92-12058

Jul. 22, 1992 [KR] Rep. of Korea ..... 92-13507

[52] U.S. Cl. .... D15/5

[58] Field of Search ..... D15/1-7;  
123/3, 22, 251, 41.11, 516, 592

FIG. 1 is a top perspective view of an air whirlpool generator for automobile engine showing my new design;

FIG. 2 is a bottom perspective view;

FIG. 3 is a perspective view showing the claimed design in a position of use, the broken line showing of a partial air-suction hose is for illustrative purposes only and forms no part of the claimed design;

FIG. 4 is a top plan view;

FIG. 5 is a bottom plan view;

FIG. 6 is a front elevational view, the opposite side view being identical;

FIG. 7 is a right side elevational view, the opposite side view being identical; and,

FIG. 8 is a cross-sectional view taken along the lines 8—8 in FIG. 6.

[56] References Cited

### U.S. PATENT DOCUMENTS

- D. 217,052 3/1970 Jones et al. .... D15/5
- D. 228,814 10/1973 Fabregat ..... D15/5
- D. 264,675 6/1982 Inaga et al. .... D15/7
- D. 316,418 4/1991 Benson ..... D15/5
- D. 327,074 6/1992 Chia et al. .... D15/5
- 2,465,671 3/1949 Van Millingen et al. .... D15/7
- 2,740,392 4/1956 Hollingsworth ..... 123/592

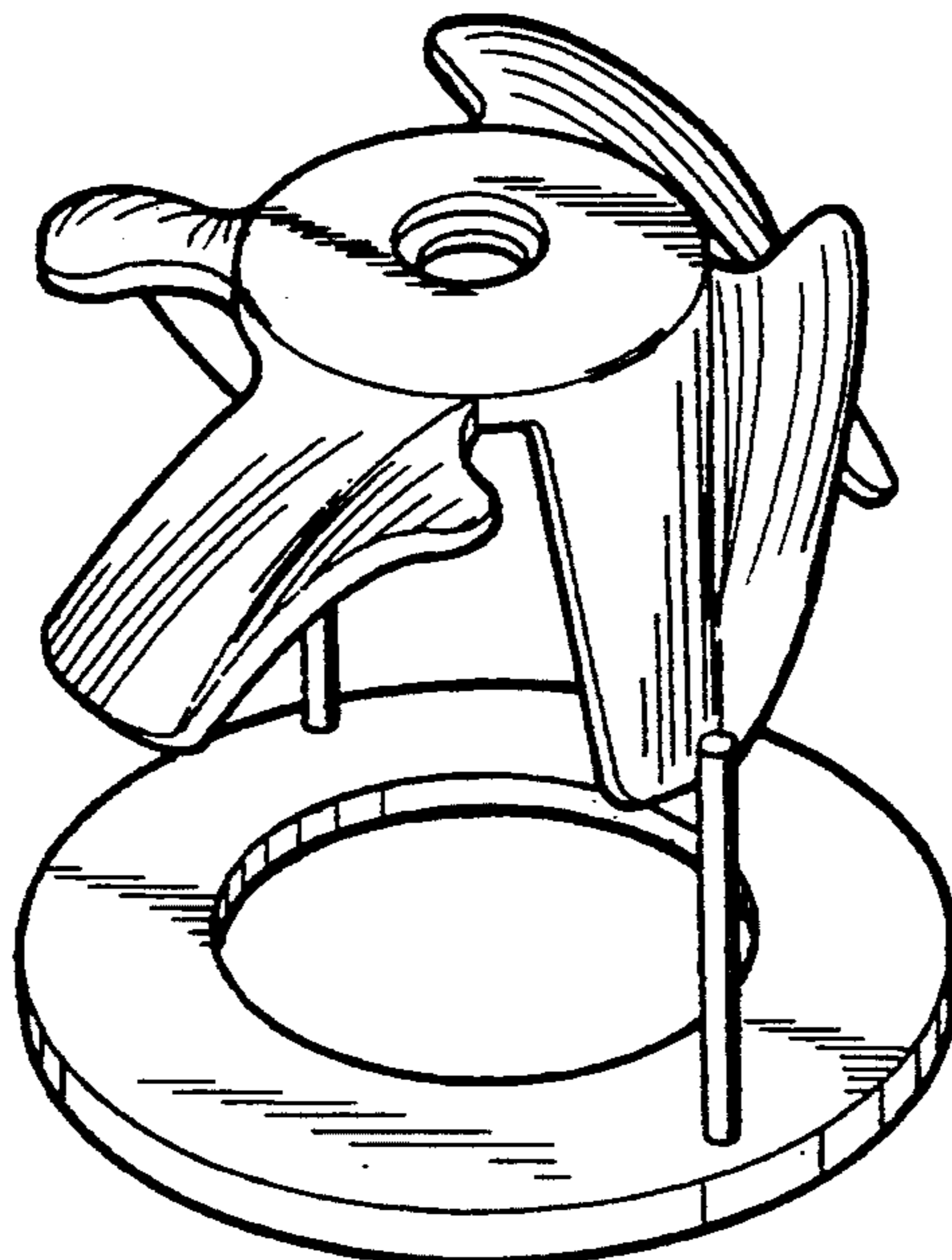


FIG. 1

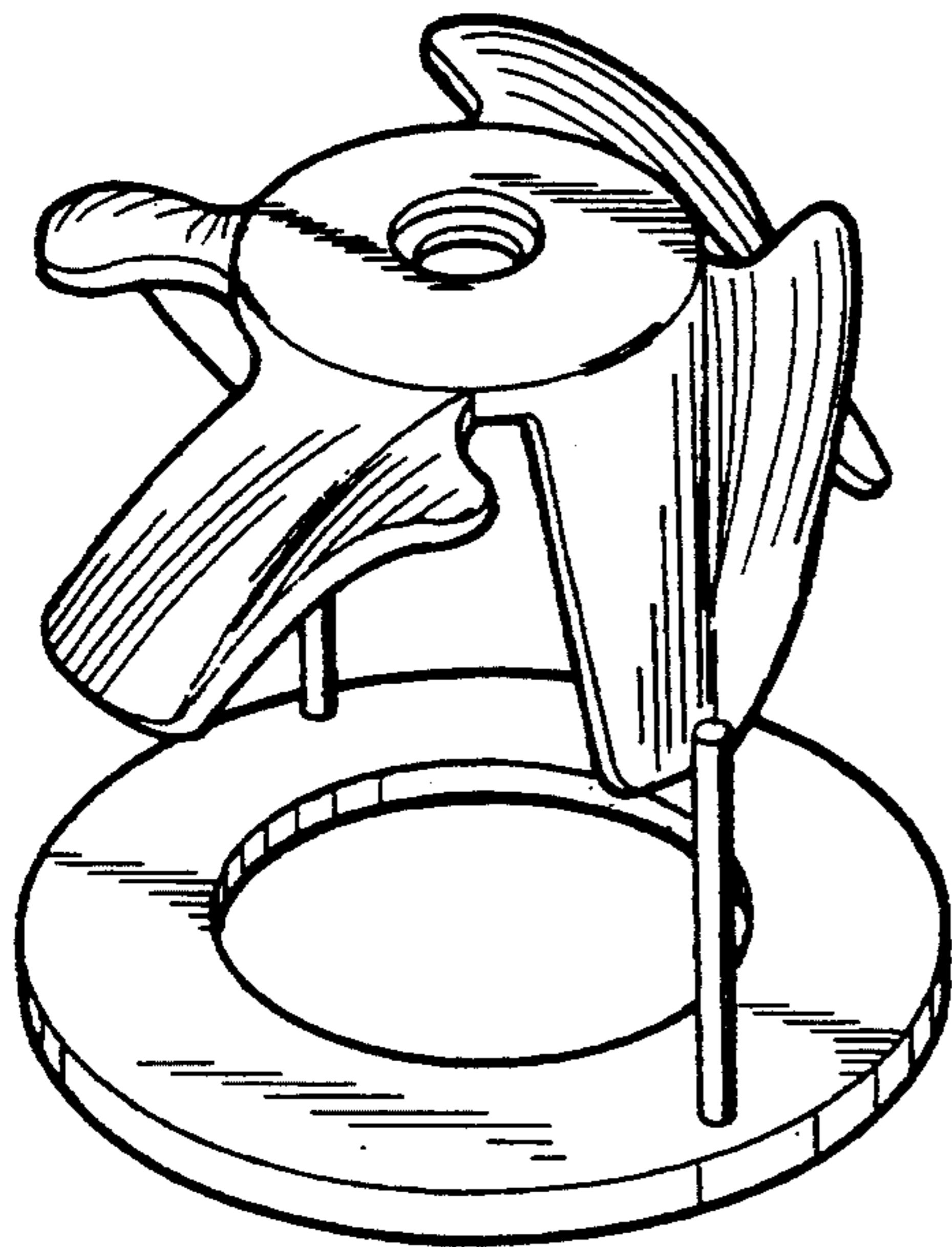


FIG. 2

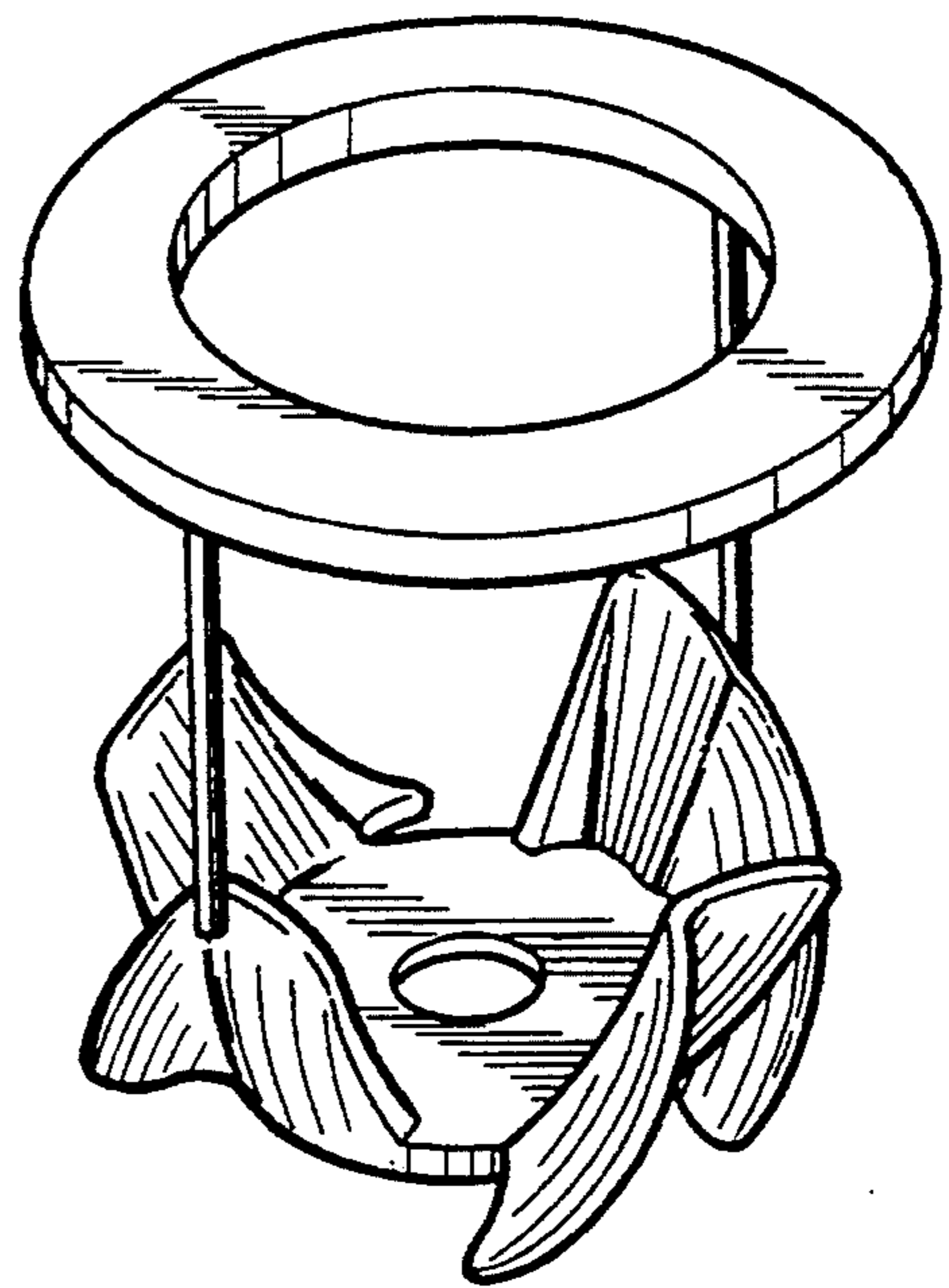


FIG. 3

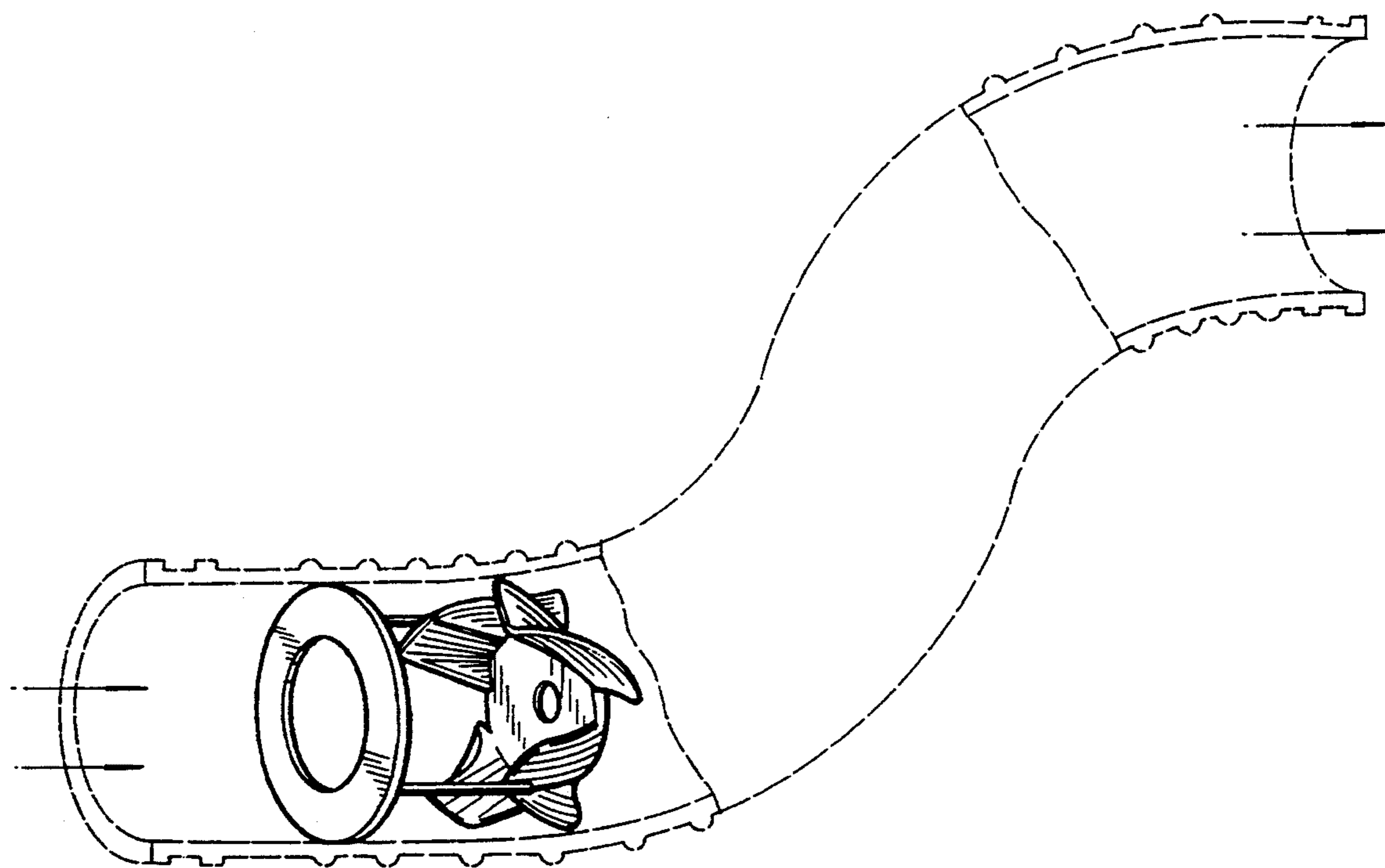


FIG. 4

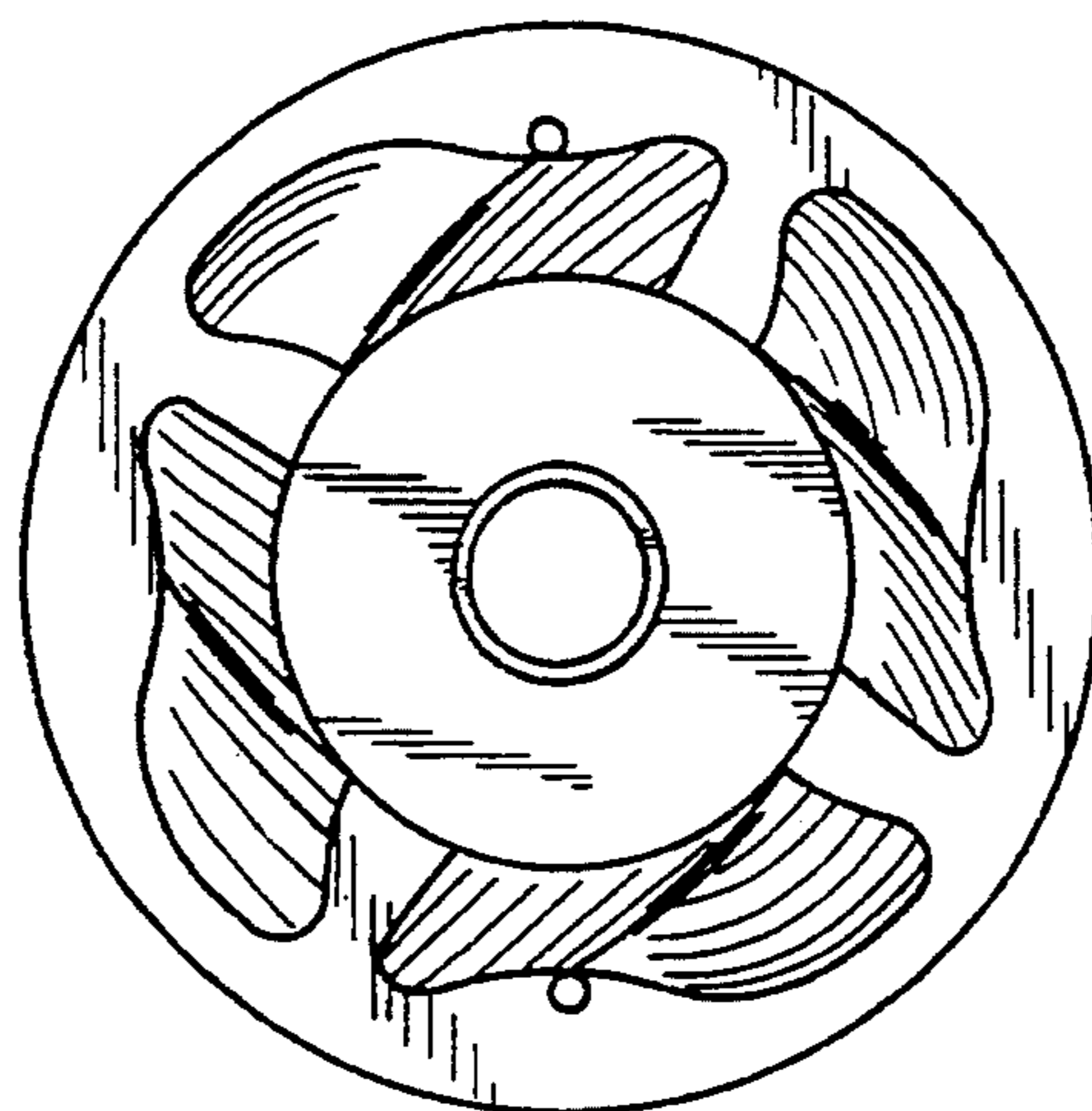


FIG. 5

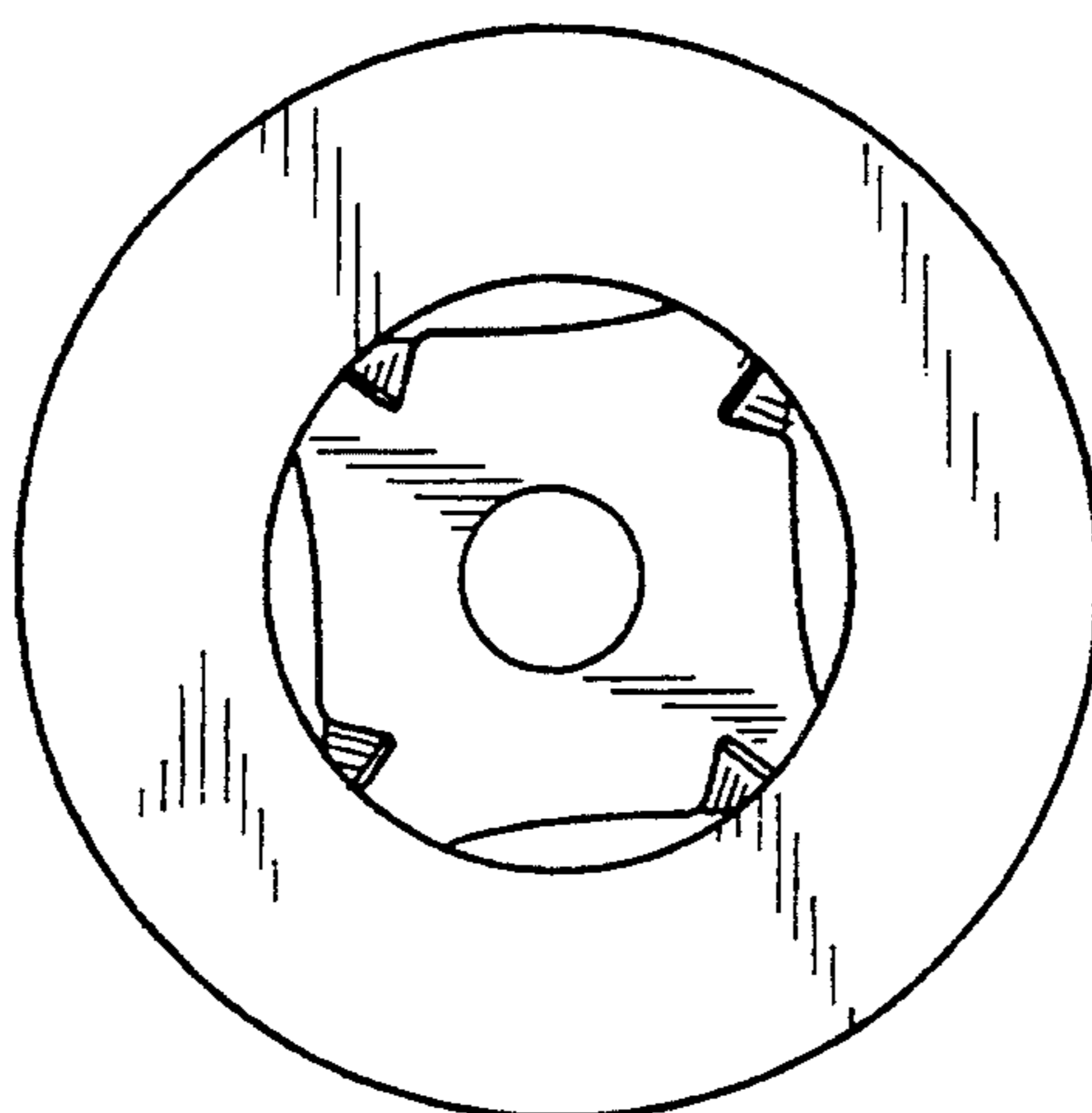


FIG. 6

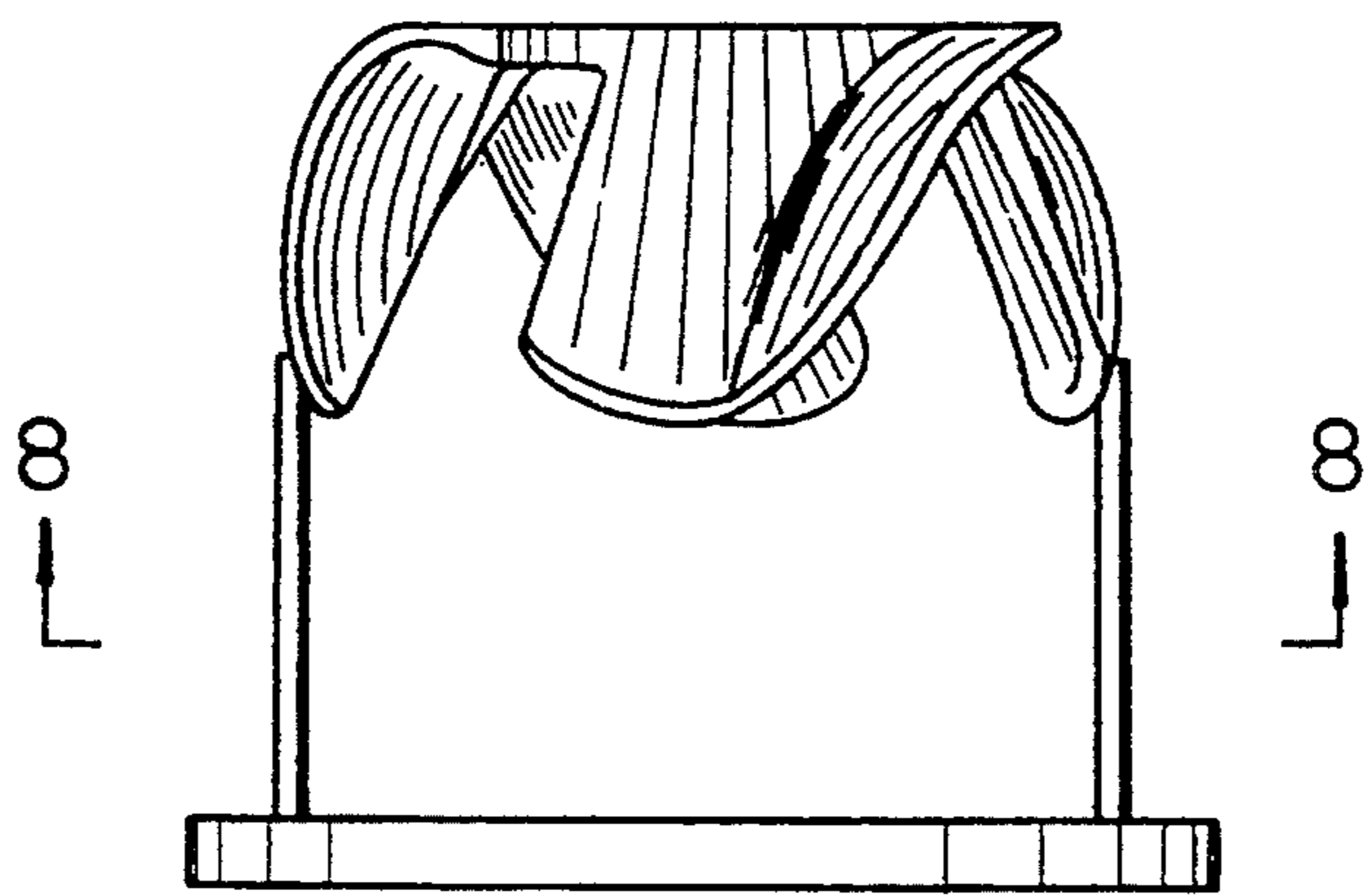


FIG. 7

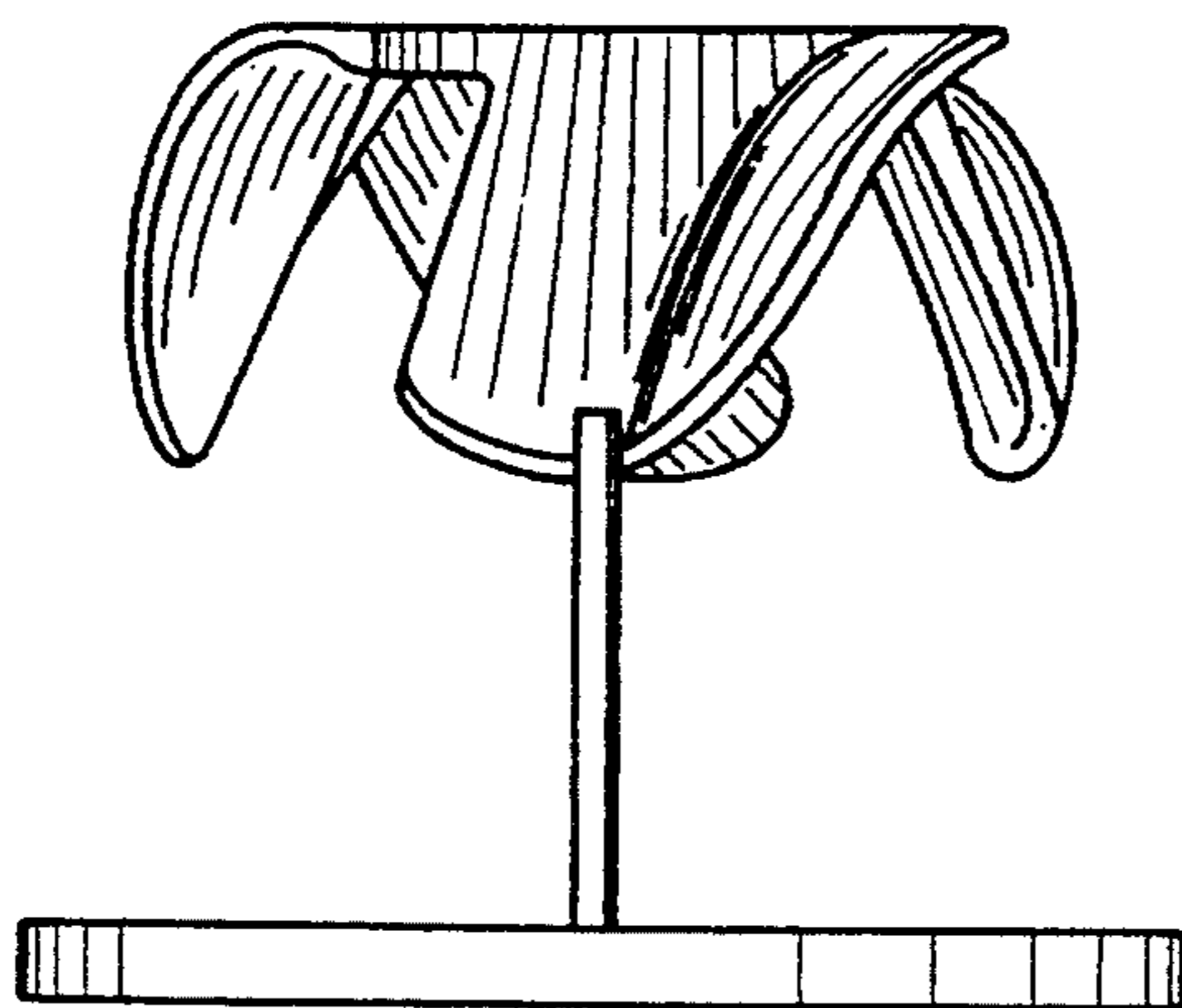


FIG. 8

