



US00D403473S

# United States Patent [19] Hoppe

[11] **Patent Number: Des. 403,473**

[45] **Date of Patent: \*\*Dec. 29, 1998**

[54] **INNER/OUTER DIAMETER PIPE CLEANING SYSTEM**

D. 370,348 6/1996 McElheney ..... D4/130 X

[76] Inventor: **George F Hoppe**, 270 Whipple Ave.,  
Oakland, R.I. 02858-1019

*Primary Examiner*—Terry A. Wallace  
*Assistant Examiner*—Mitchell I. Siegel

[\*\*] Term: **14 Years**

[57] **CLAIM**

The ornamental design for a inner/outer diameter pipe cleaning system, as shown.

[21] Appl. No.: **67,362**

**DESCRIPTION**

[22] Filed: **Mar. 5, 1997**

[51] **LOC (6) Cl.** ..... **15-05**

[52] **U.S. Cl.** ..... **D32/14; D4/102**

[58] **Field of Search** ..... D32/4, 25, 14;  
D27/196; D4/102, 130, 127; 15/104.3, 104.4,  
104.5

FIG. 1 is a front view of the inner/outer diameter pipe cleaning system of the present invention;  
FIG. 2 is a back view of the inner/outer diameter pipe cleaning system of FIG. 1;  
FIG. 3 is a left side view of the inner/outer diameter pipe cleaning system of FIG. 1;  
FIG. 4 is a right side view of the inner/outer diameter pipe cleaning system of FIG. 1;  
FIG. 5 is a top plan view of the inner/outer diameter pipe cleaning system of FIG. 1; and,  
FIG. 6 is a bottom plan view of the inner/outer diameter pipe cleaning system of FIG. 1.

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

- D. 298,086 10/1988 Dollar, Jr. .... D4/127
- D. 309,377 7/1990 Taylor et al. .... D4/130
- D. 335,962 6/1993 Battle, Jr. .... D4/127
- D. 347,523 6/1994 Villeneuve ..... D4/102

**1 Claim, 3 Drawing Sheets**

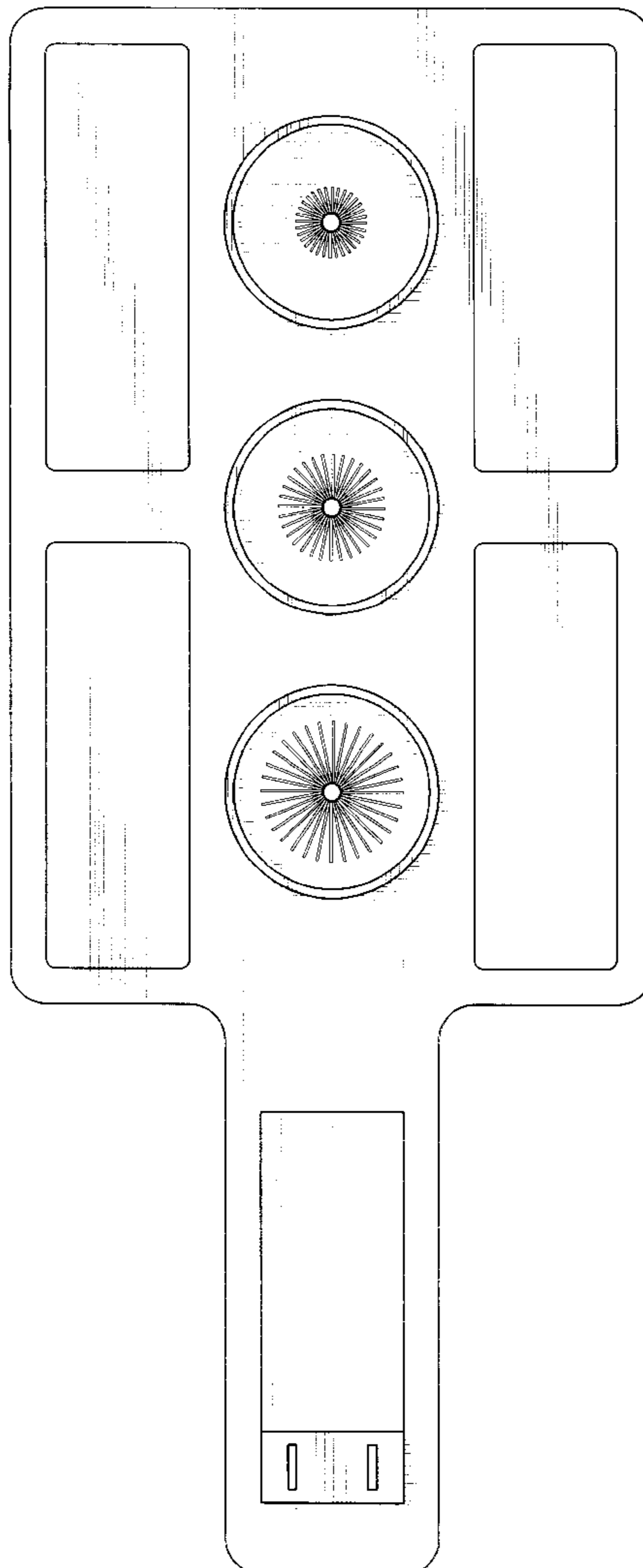


FIG. 1

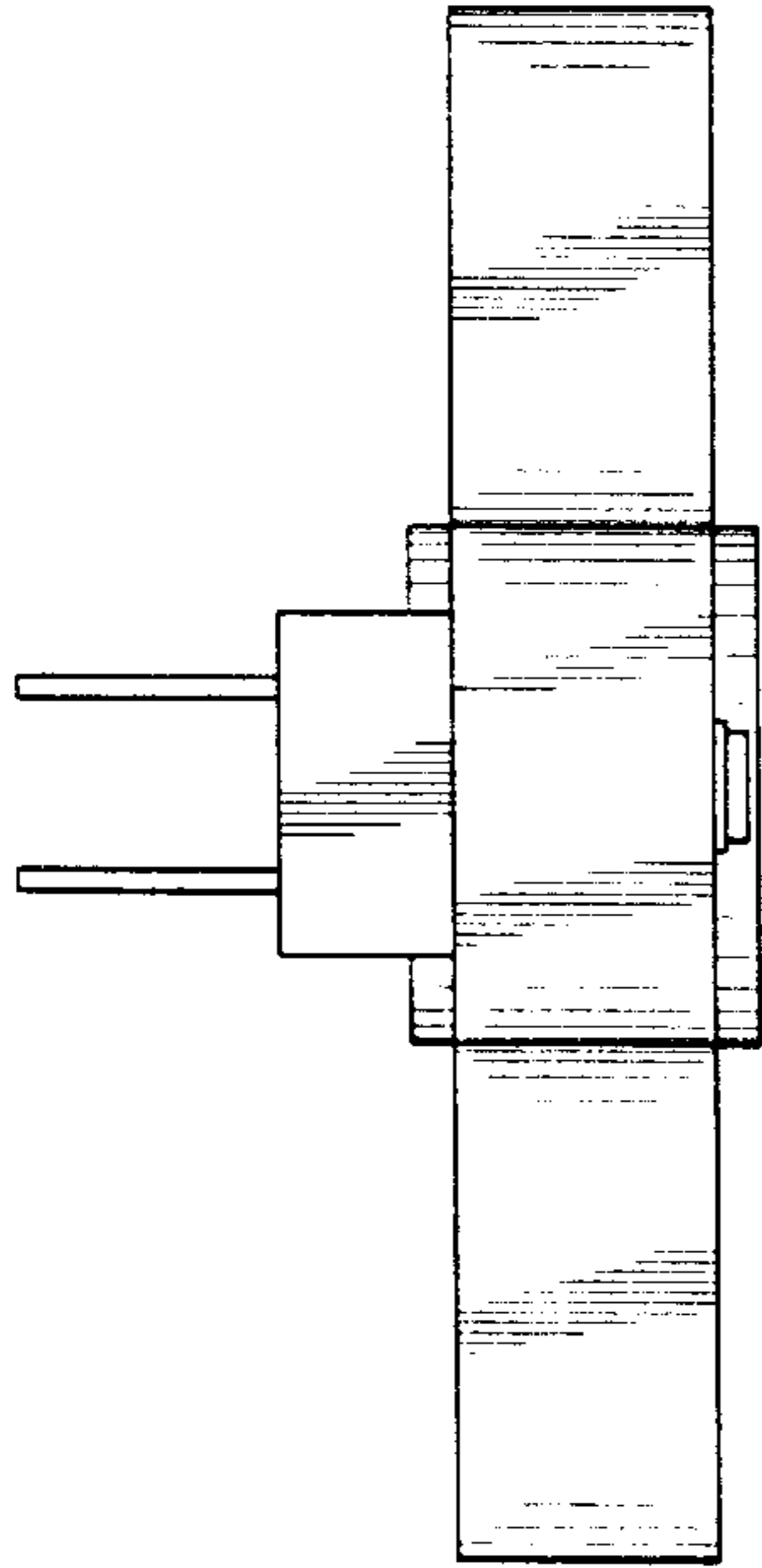


FIG. 2

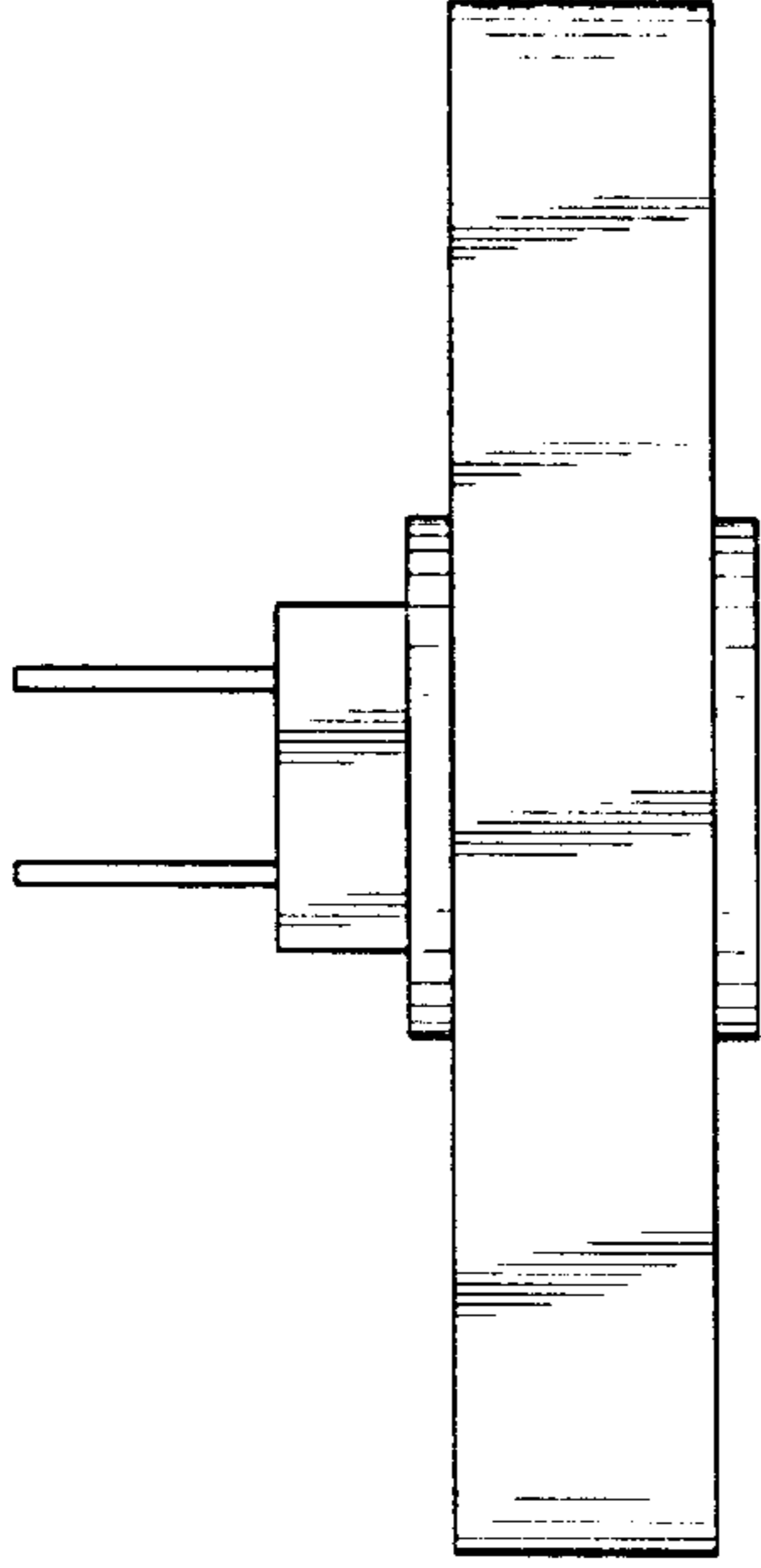


FIG. 3

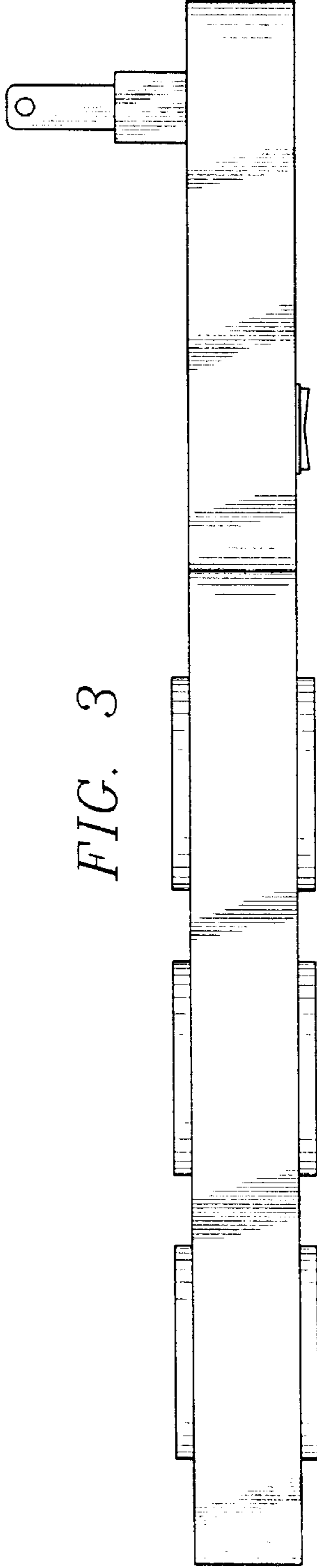


FIG. 4

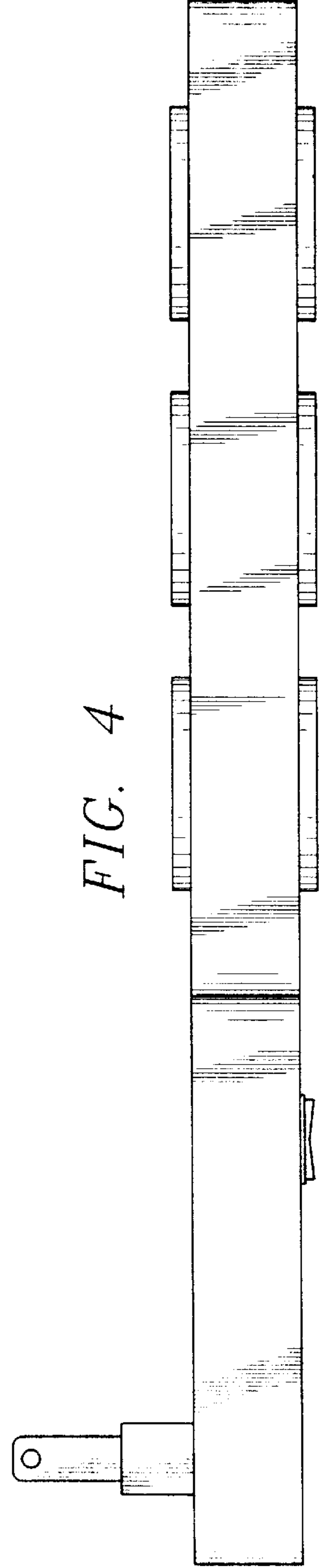


FIG. 5

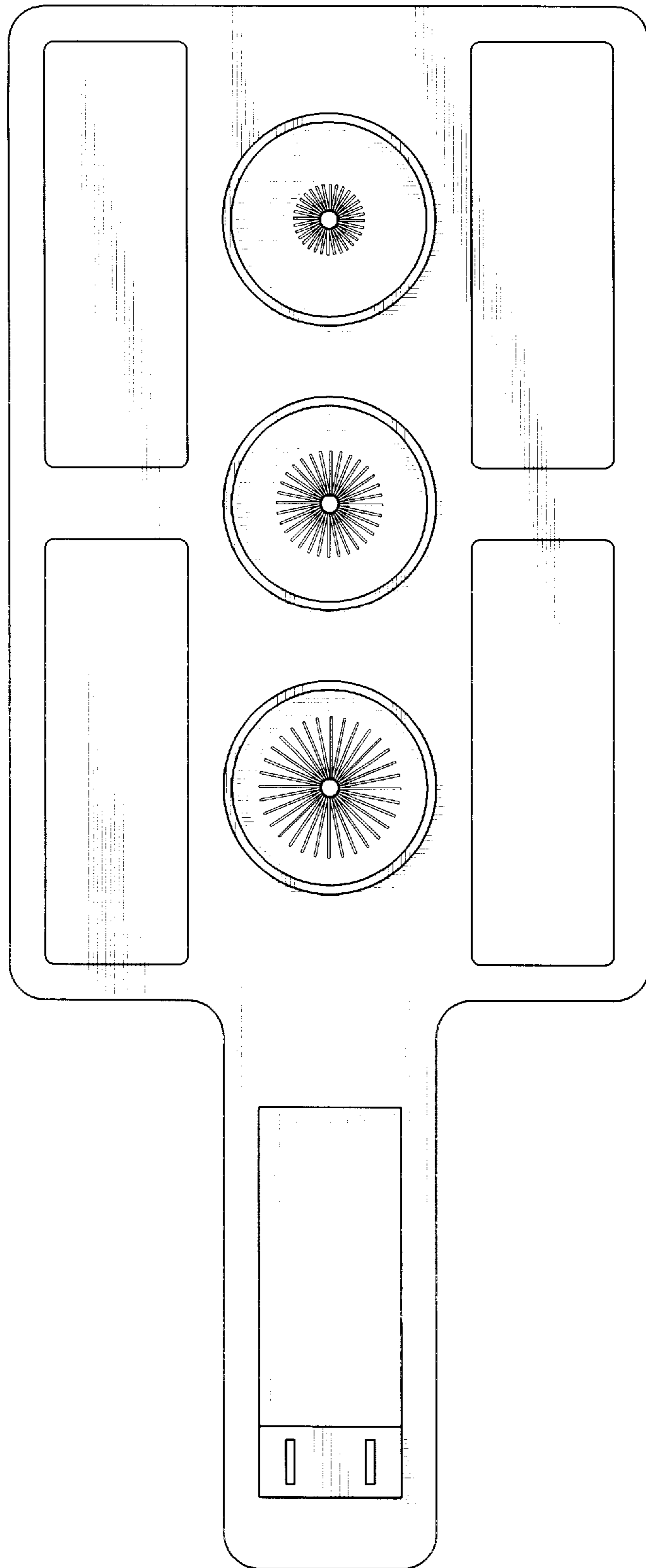


FIG. 6

