



US00D483116S

(12) **United States Design Patent** (10) **Patent No.:** **US D483,116 S**
Castellano (45) **Date of Patent:** **** Dec. 2, 2003**

(54) **NEEDLE-LESS INJECTOR**

D450,835 S * 11/2001 Liu et al. D24/114
6,475,181 B1 * 11/2002 Potter et al. 604/68

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* cited by examiner

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

(57) **CLAIM**

The ornamental design for a needle-less injector, as shown and described.

(21) Appl. No.: **29/158,606**

(22) Filed: **Apr. 5, 2002**

DESCRIPTION

(51) **LOC (7) Cl.** **24-02**

(52) **U.S. Cl.** **D24/114; D24/112**

(58) **Field of Search** D24/114, 112,
D24/113; 604/69, 68, 82, 70, 416, 272,
72, 71

FIG. 1 is a perspective view of a needle-less injector showing my new design.

FIG. 2 is a front elevational view thereof, the rear elevational view being identical thereto.

FIG. 3 is a right side elevational view thereof, the left side elevational view being identical thereto.

FIG. 4 is a bottom end view thereof.

FIG. 5 is a top end view thereof; and,

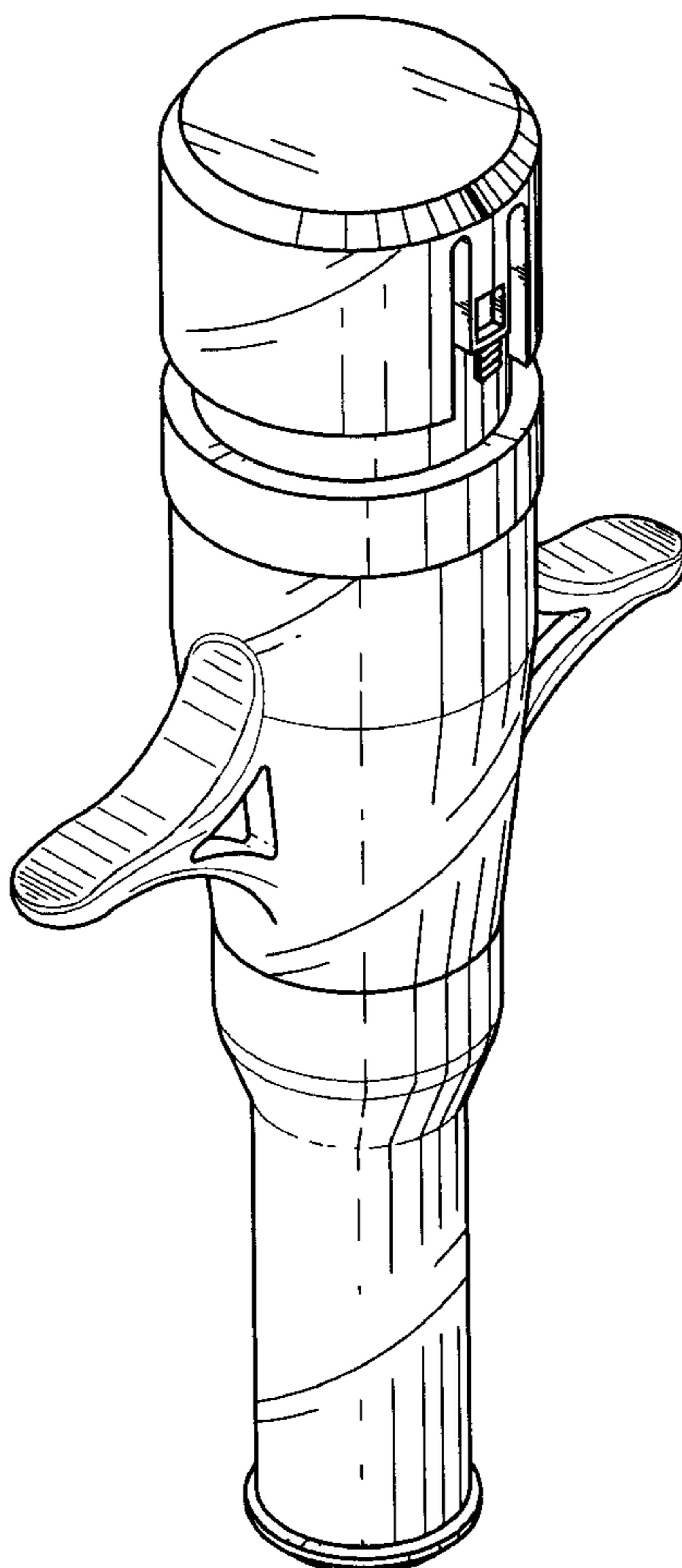
FIG. 6 is a perspective view thereof, with the end cap and safety clamp shown in broken line and forms no part of the claimed design invention.

(56) **References Cited**

U.S. PATENT DOCUMENTS

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- 3,946,732 A * 3/1976 Hurscham 604/88
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1 Claim, 3 Drawing Sheets



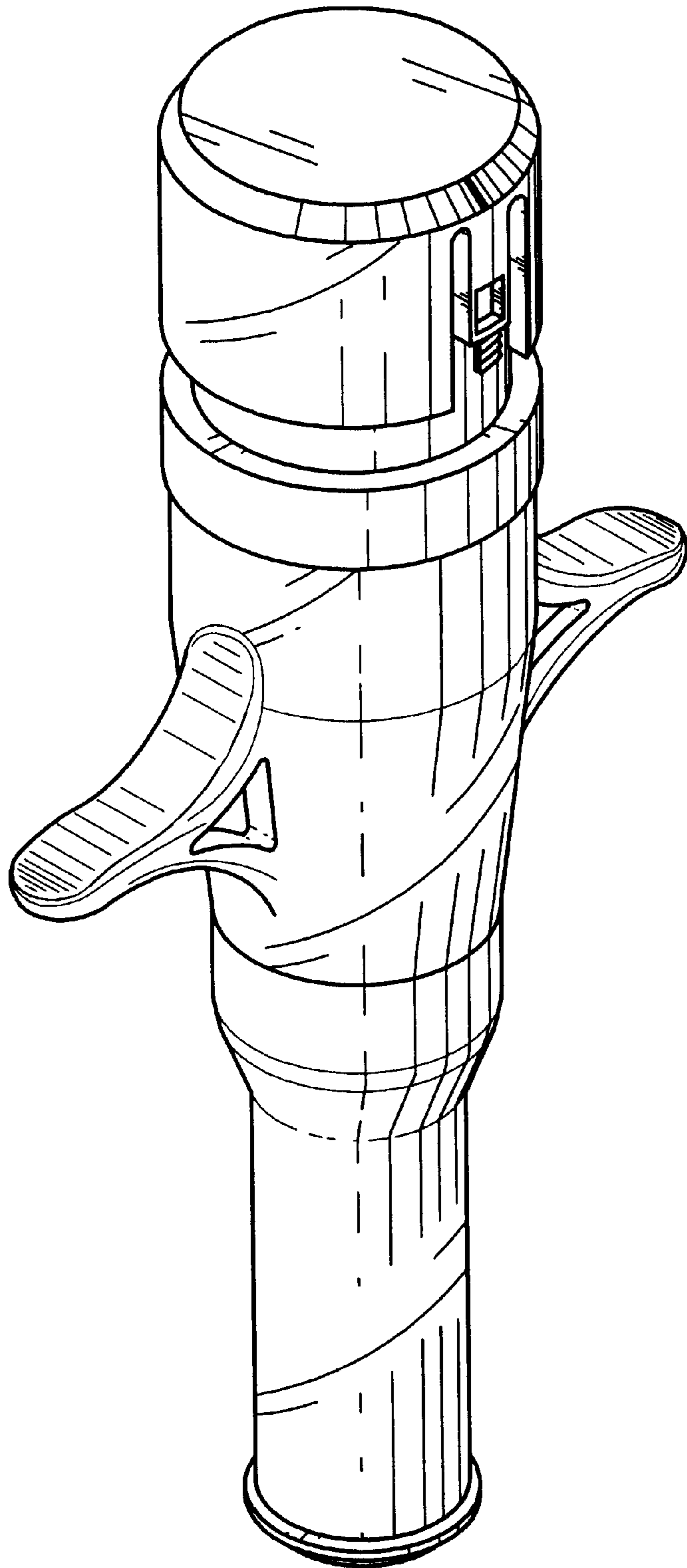


FIG. 1

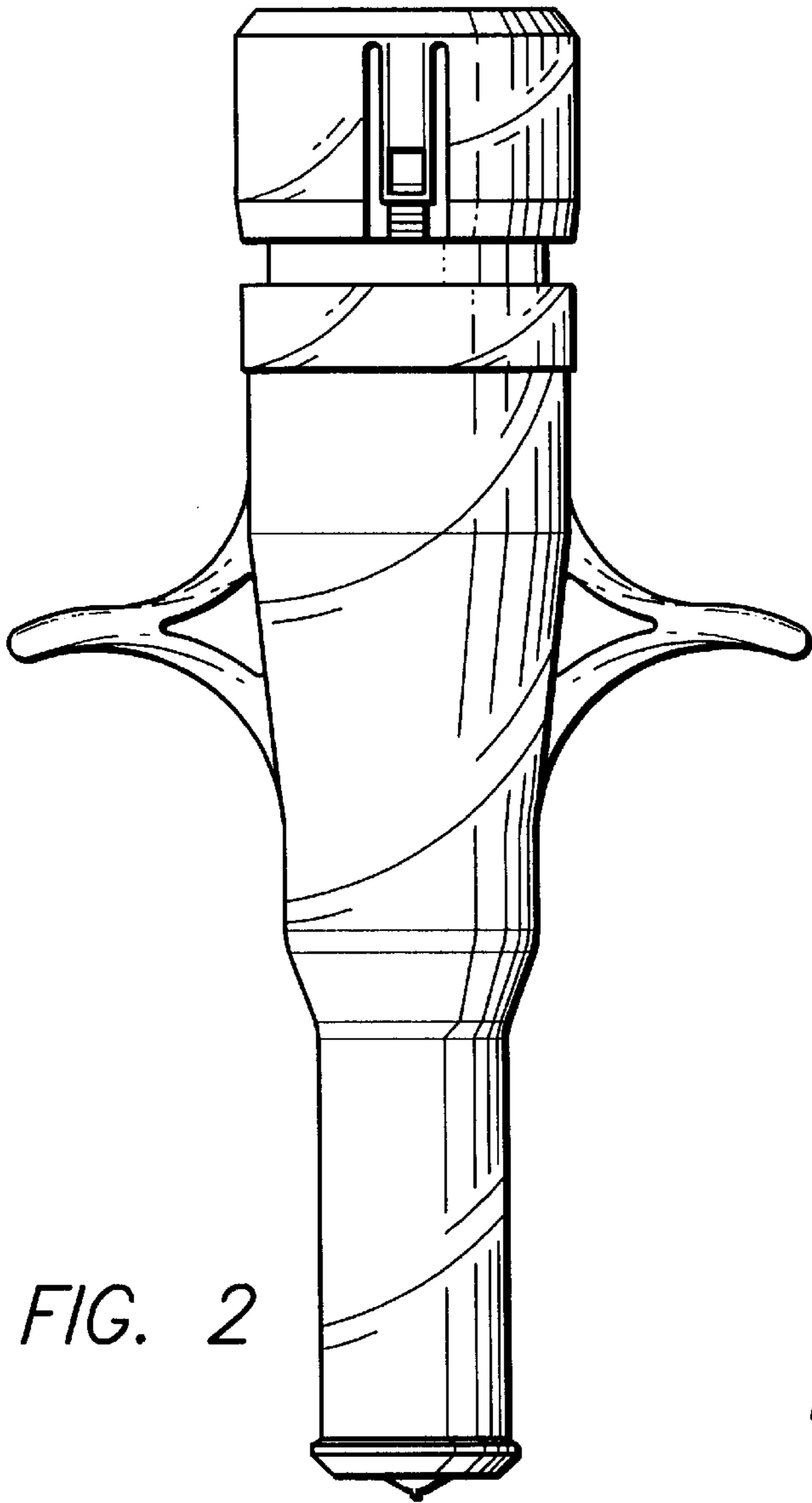


FIG. 2

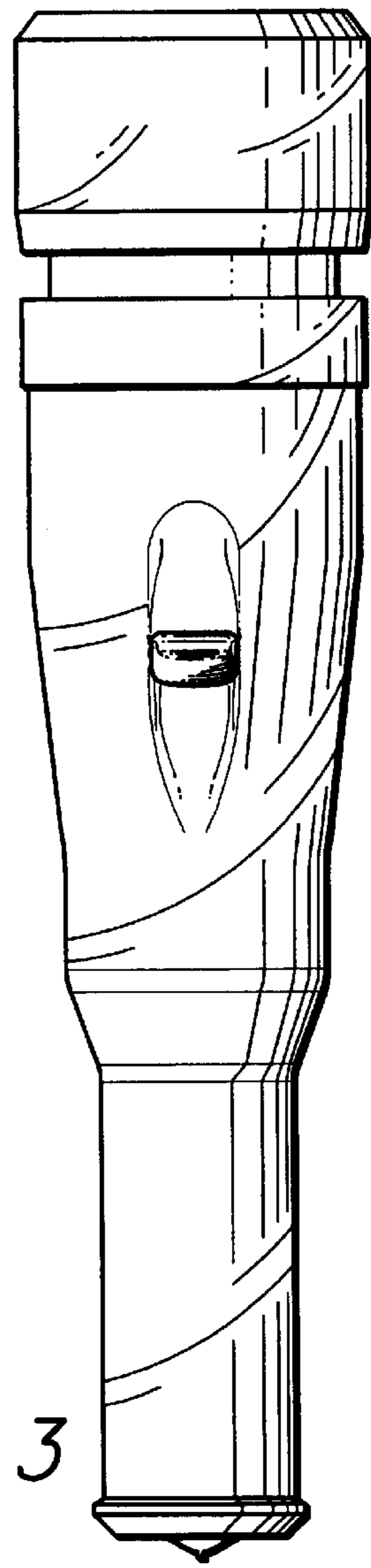


FIG. 3

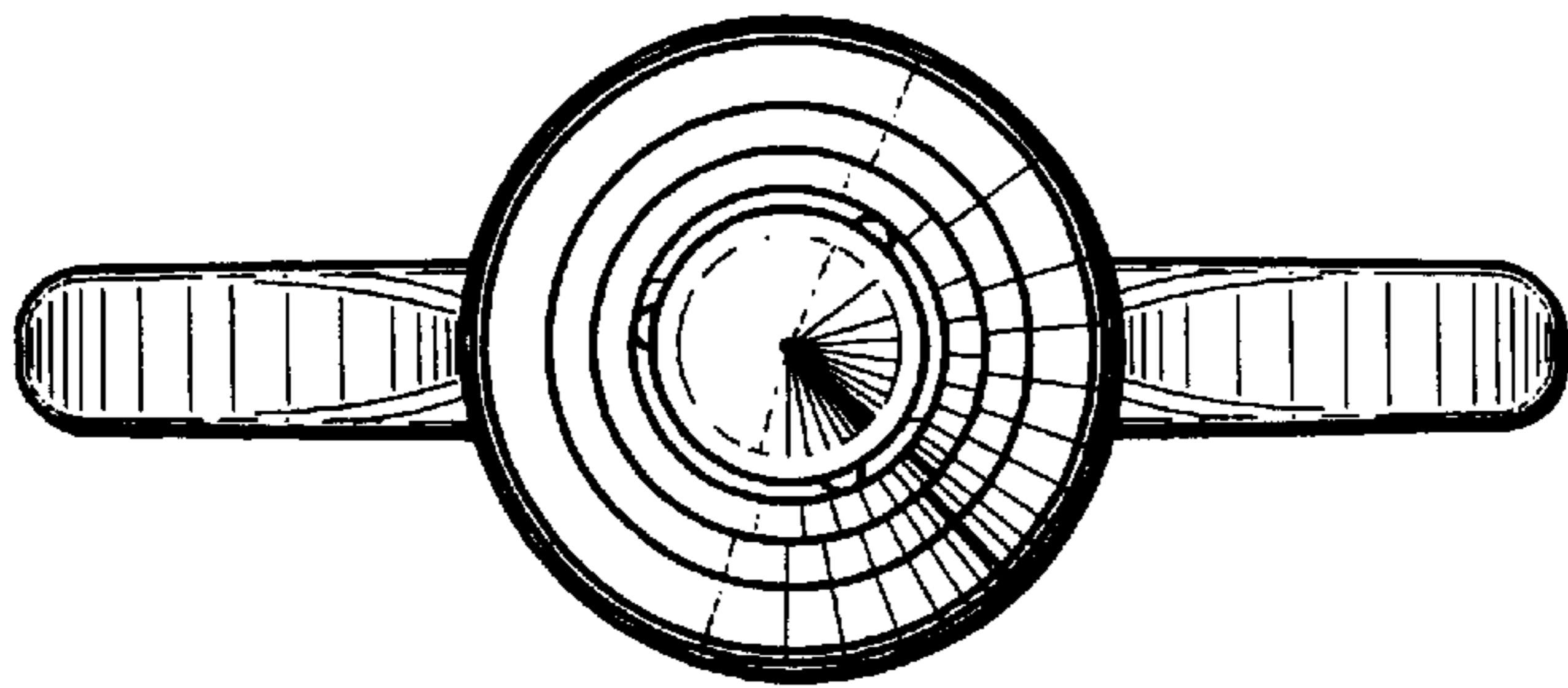


FIG. 4

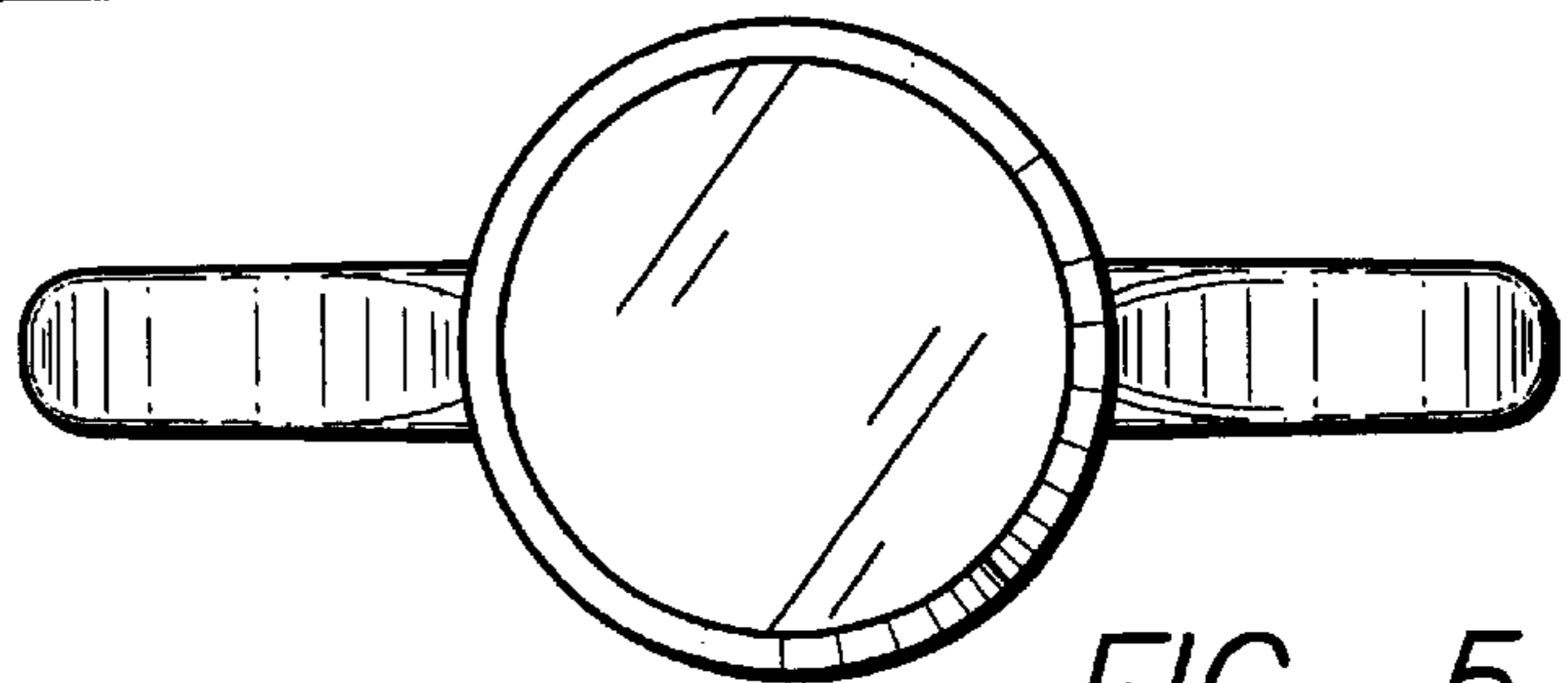


FIG. 5

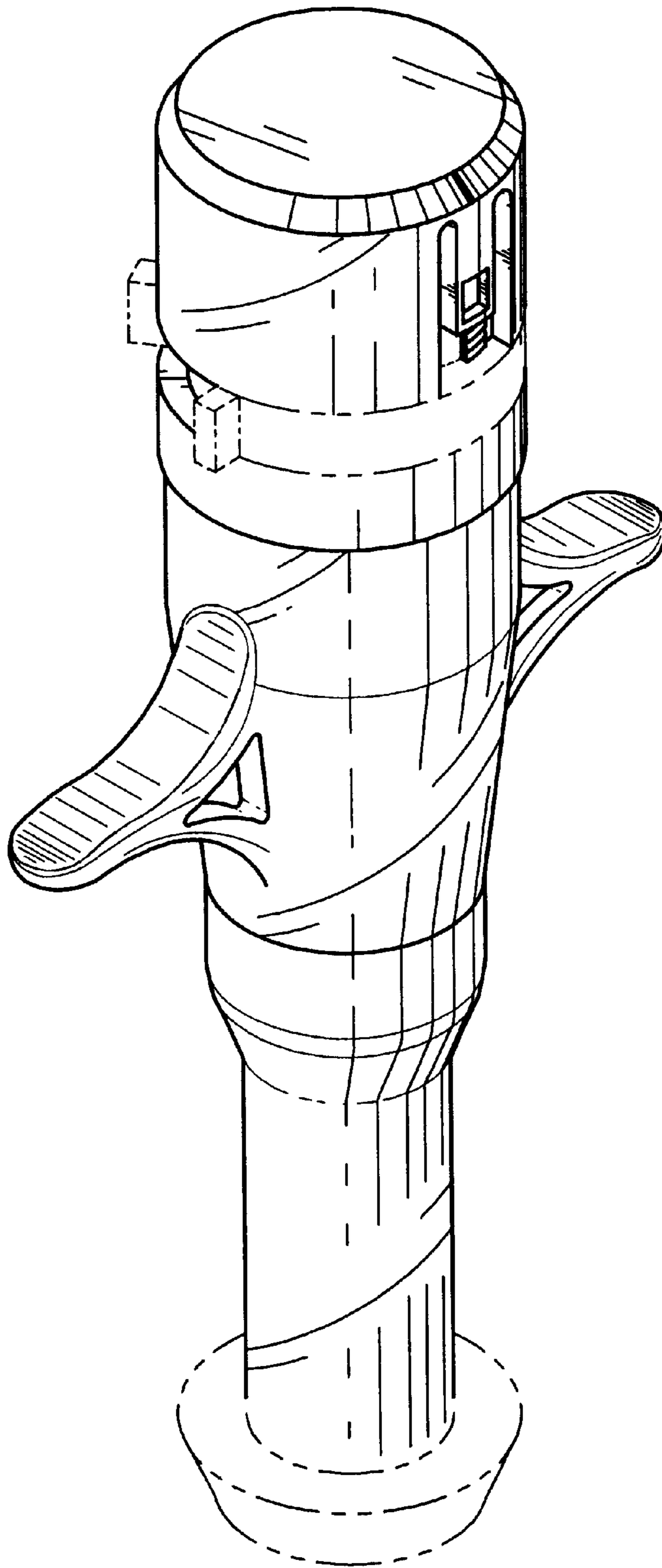


FIG. 6