



US00D598173S

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

(10) **Patent No.:** **US D598,173 S**

(45) **Date of Patent:** **\*\* Aug. 11, 2009**

(54) **TOOL FOR CLEANING THE OUTER SURFACE OF A TUBE**

(76) **Inventor:** **David D. Hartel**, 8149 Aura Ave., Reseda, CA (US) 91335

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

(21) **Appl. No.:** **29/308,368**

(22) **Filed:** **Jun. 13, 2008**

(51) **LOC (9) Cl.** ..... **08-99**

(52) **U.S. Cl.** ..... **D32/40; D4/119; D8/90**

(58) **Field of Classification Search** ..... D32/35, D32/40, 42; D4/118-120, 105-106, 164, D4/114, 116, 137-139, 129; D8/90, 14; 15/244.1, 211, 210.1, 225, 160  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D247,936	S	*	5/1978	Wortley et al.	.....	D4/120
4,301,567	A	*	11/1981	Tucker	.....	15/160
4,575,892	A	*	3/1986	Ross	.....	15/106
D363,376	S	*	10/1995	Nieman	.....	D4/119
5,566,416	A	*	10/1996	Karls	.....	15/104.04
D408,106	S	*	4/1999	Cousins et al.	.....	D32/42
6,067,686	A	*	5/2000	Gronkiewicz	.....	15/244.4
D449,909	S	*	10/2001	Randolph et al.	.....	D32/40

6,470,526	B2	*	10/2002	Large	.....	15/244.1
D496,138	S	*	9/2004	Treacy	.....	D32/40
D528,891	S	*	9/2006	Thompson et al.	.....	D8/90
D561,960	S	*	2/2008	Terao	.....	D32/40

\* cited by examiner

*Primary Examiner*—Pamela J Burgess

(74) *Attorney, Agent, or Firm*—Albert O. Cota

(57) **CLAIM**

The ornamental design for a tool for cleaning the outer surface of a tube, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a tool for cleaning the outer surface of a tube showing my new design.

FIG. 2 is a right-side elevational view thereof. The left-side elevational view, the top plan view and the bottom plan view being a mirror images thereof;

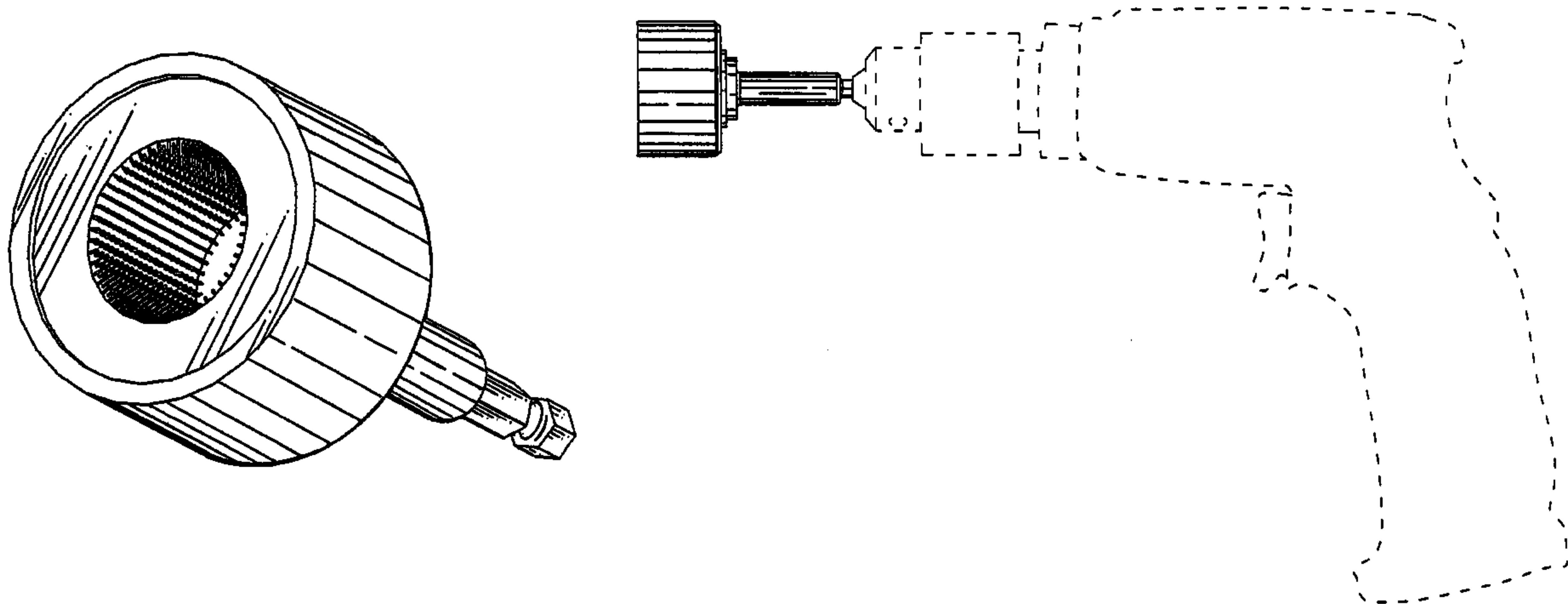
FIG. 3 is a cross-sectional view thereof;

FIG. 4 is a front elevational view thereof;

FIG. 5 is a rear elevational view thereof; and,

FIG. 6 is a side elevational view showing the tool inserted into an electric drill. The drill is shown in broken lines for illustrative purposes only and forms no part of the claimed design.

**1 Claim, 4 Drawing Sheets**



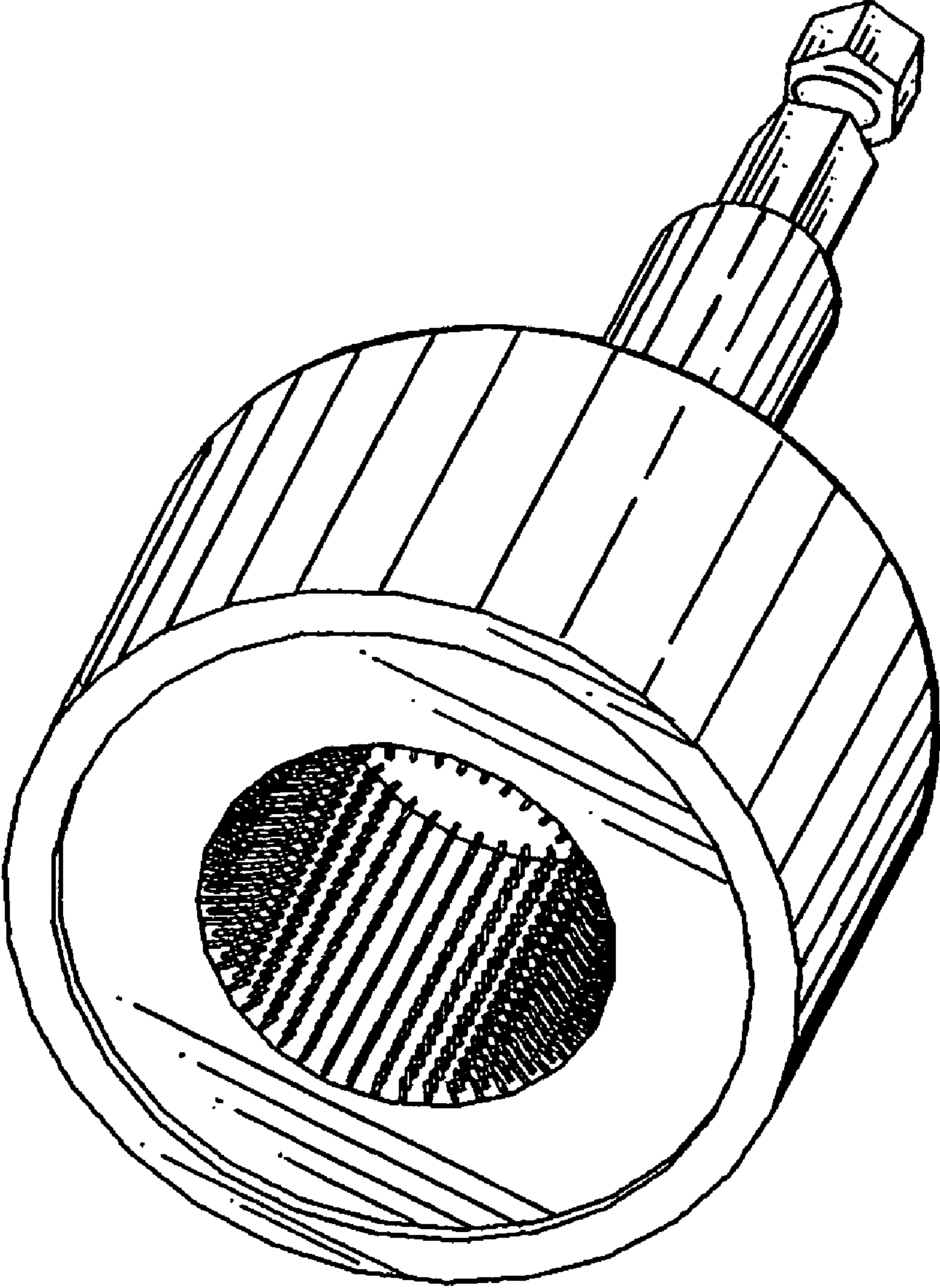


Fig. 1

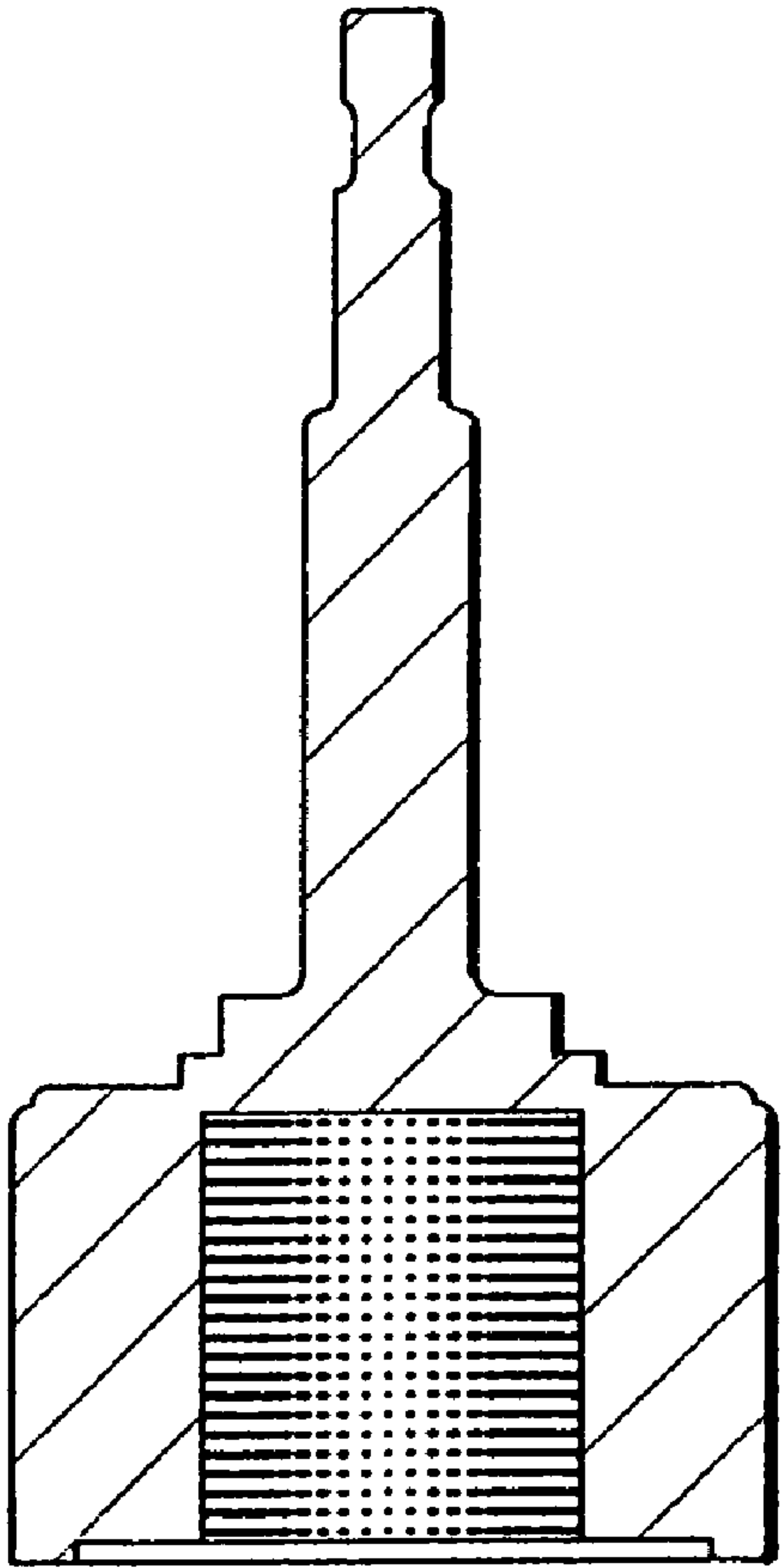


Fig. 3

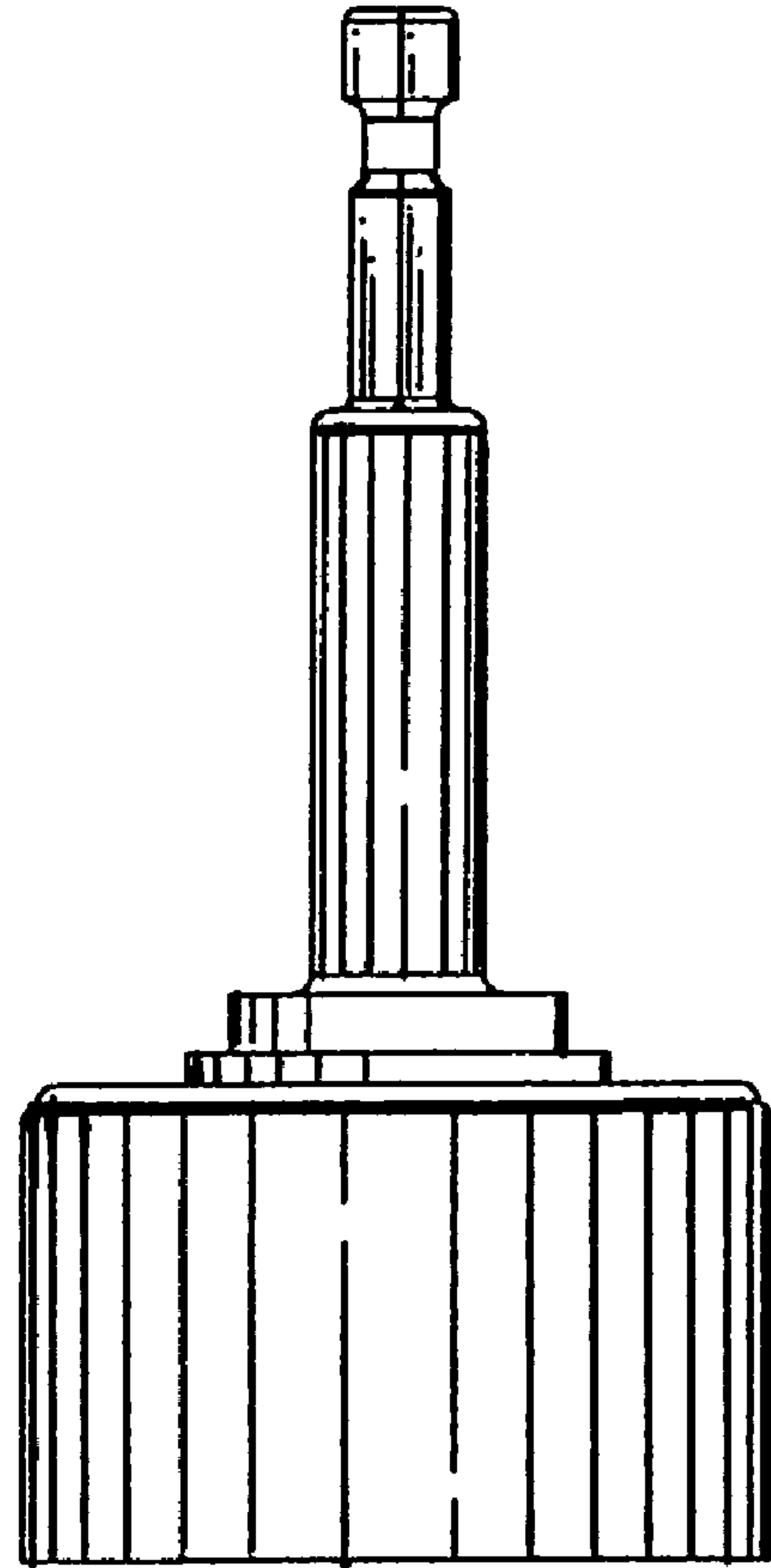


Fig. 2

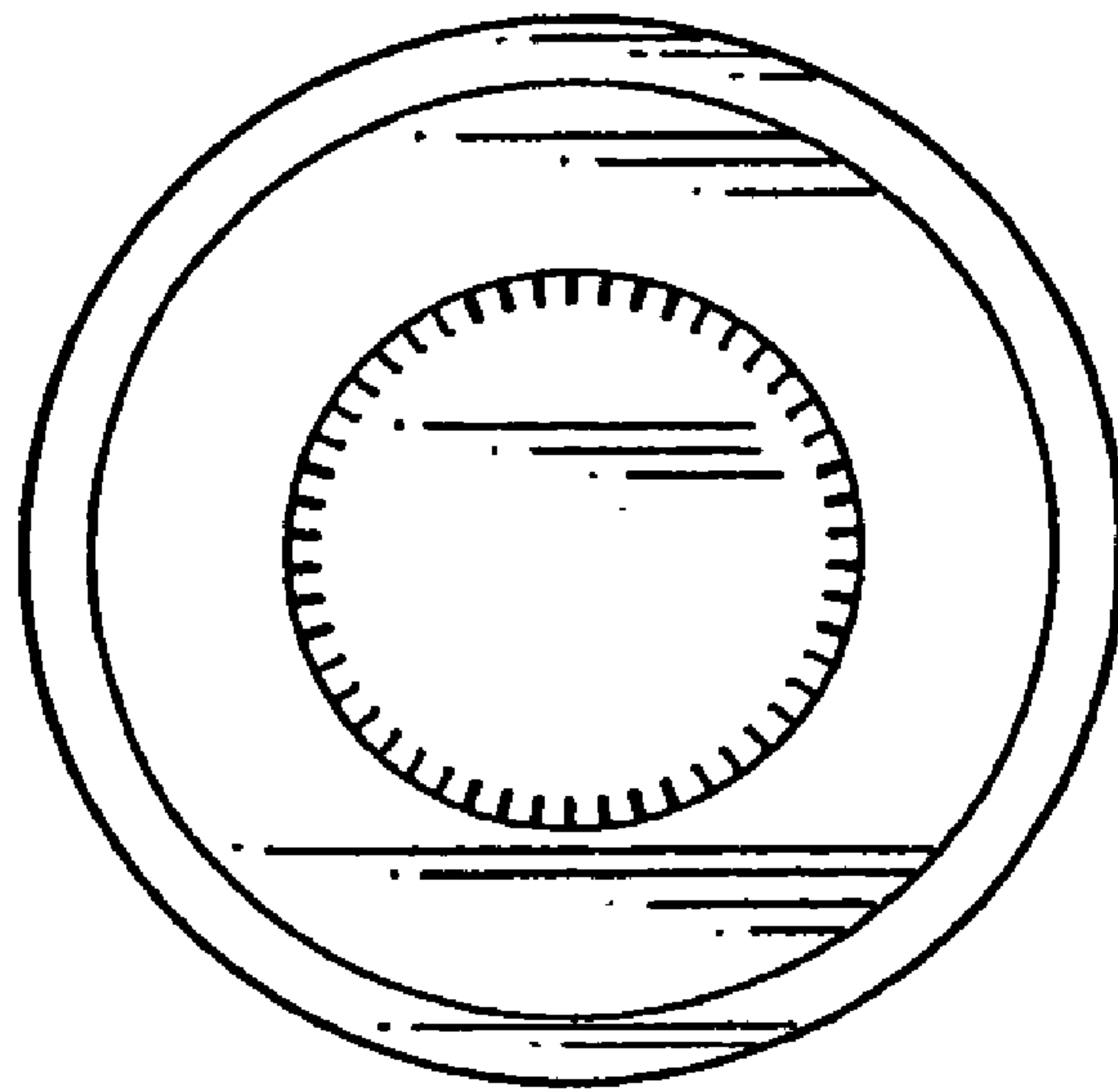


Fig. 4

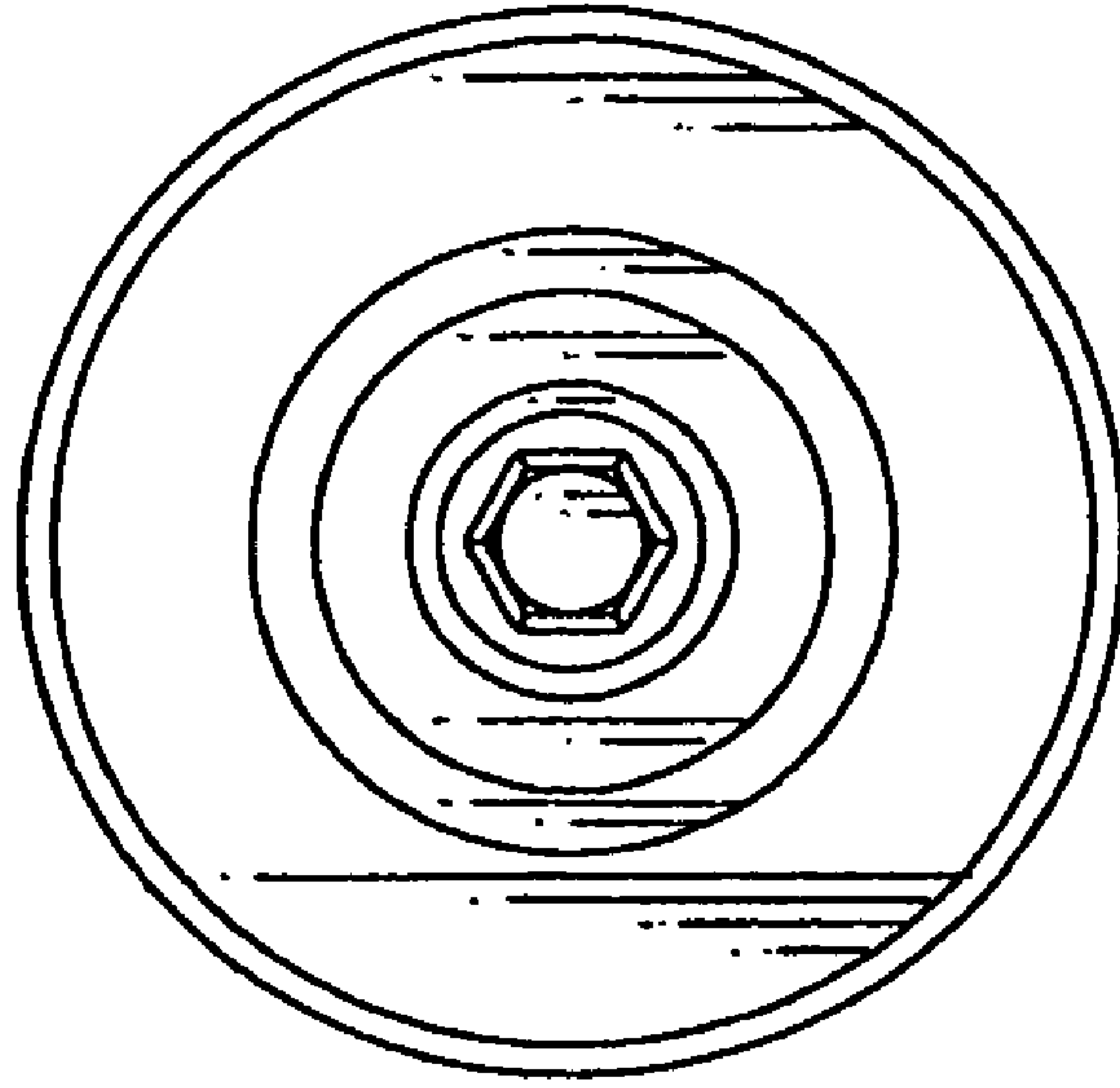


Fig. 5

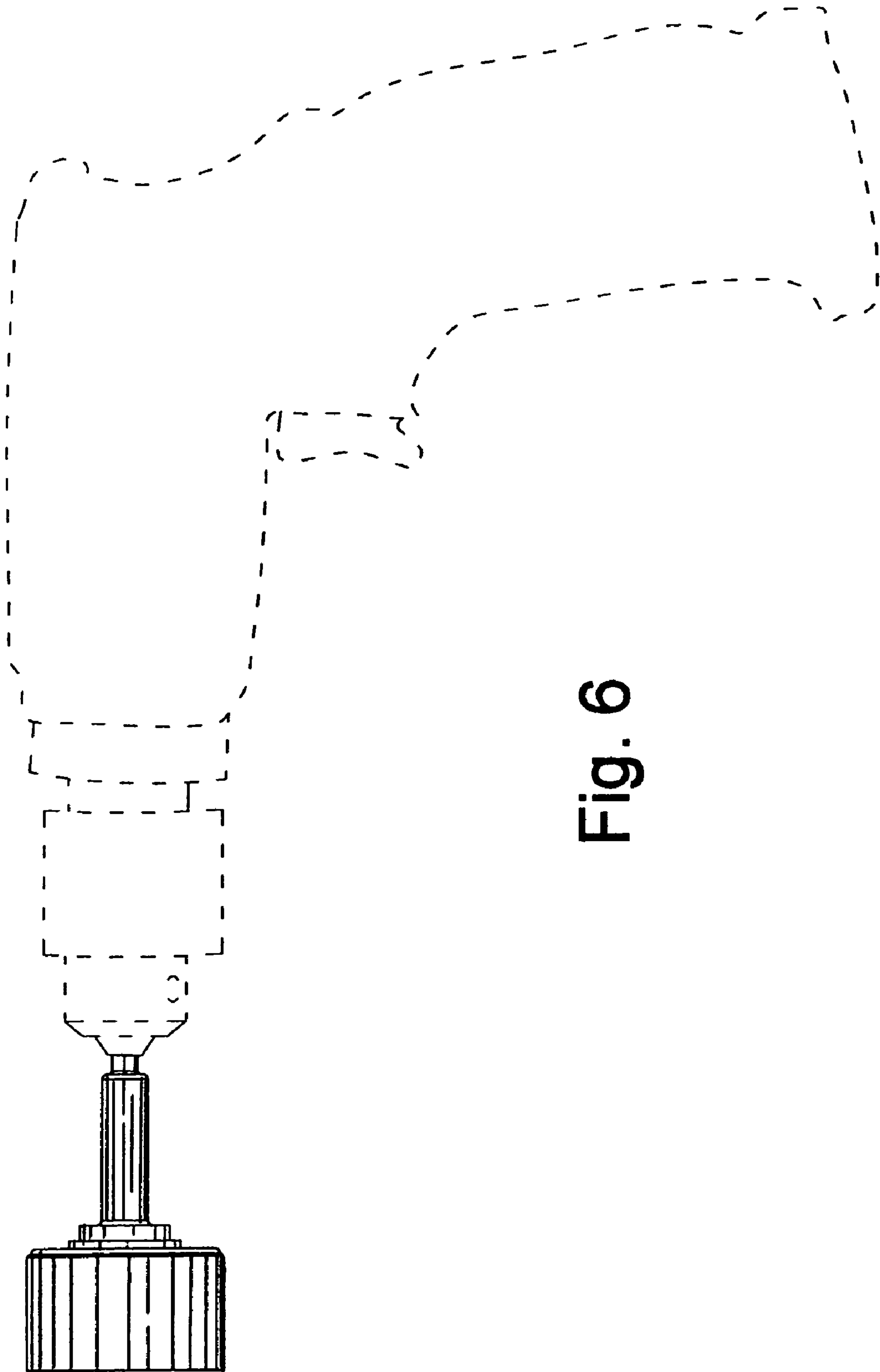


Fig. 6