



US00D625387S

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

(10) **Patent No.:** **US D625,387 S**

(45) **Date of Patent:** **\*\* \*Oct. 12, 2010**

(54) **MOTIONLESS MIXER**

(75) Inventor: **Hisao Kojima**, Yokohama (JP)

(73) Assignee: **Anemos Company Ltd.**, Tokyo (JP)

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

(21) Appl. No.: **29/353,554**

(22) Filed: **Jan. 11, 2010**

**Related U.S. Application Data**

(63) Continuation of application No. 29/295,024, filed on Sep. 20, 2007, now abandoned.

(30) **Foreign Application Priority Data**

Apr. 3, 2007 (JP) ..... D2007-011794

(51) **LOC (9) Cl.** ..... **08-01**

(52) **U.S. Cl.** ..... **D23/200**

(58) **Field of Classification Search** ..... D15/138,  
D15/139, 140, 199; D23/200, 207, 233,  
D23/266, 263; 48/198.4; 138/37, 39, 42,  
138/115; 252/359; 366/183, 336-340  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,183,682 A	1/1980	Lieffers	
4,433,739 A	2/1984	Sarin	
4,466,741 A	8/1984	Kojima	
4,643,584 A	2/1987	Allocca	
D289,405 S	4/1987	Nystrom	
D293,798 S	1/1988	Johnson	
4,747,697 A	5/1988	Kojima	
D296,559 S	7/1988	Drabinski	
D365,113 S	12/1995	Ronan	
D367,916 S	3/1996	Thomas et al.	
5,758,967 A *	6/1998	King	366/337
6,164,813 A	12/2000	Wang	
D450,814 S	11/2001	Aldred et al.	
D508,061 S	8/2005	Kotala	
7,169,292 B2	1/2007	Chae et al.	

7,484,881 B2	2/2009	Schultz-Hanke et al.	
D607,083 S *	12/2009	Kojima	D23/200
2004/0008576 A1 *	1/2004	Henning	366/337
2005/0039809 A1	2/2005	Speldrich	
2005/0219947 A1 *	10/2005	Carlson	366/337
2008/0056064 A1	3/2008	Tanaka	

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP 10-85721 A 4/1998

(Continued)

**OTHER PUBLICATIONS**

S. Hagiwara et al., "Motionless Mixer—Basis & Application", NDC 571.3, Sep. 30, 1981, pp. 1-7, The Nikkan Kogyo Shimbun Ltd., Tokyo, Japan (Sep. 30, 1981).

*Primary Examiner*—Sandra Snapp

*Assistant Examiner*—Patricia Palasik

(74) *Attorney, Agent, or Firm*—Ditthavong Mori & Steiner, P.C.

(57) **CLAIM**

The ornamental design for a motionless mixer, as shown and described.

**DESCRIPTION**

FIG. 1 is a front side elevational view of a motionless mixer showing my new design;

FIG. 2 is a rear side elevational view thereof;

FIG. 3 is a left side elevational view thereof;

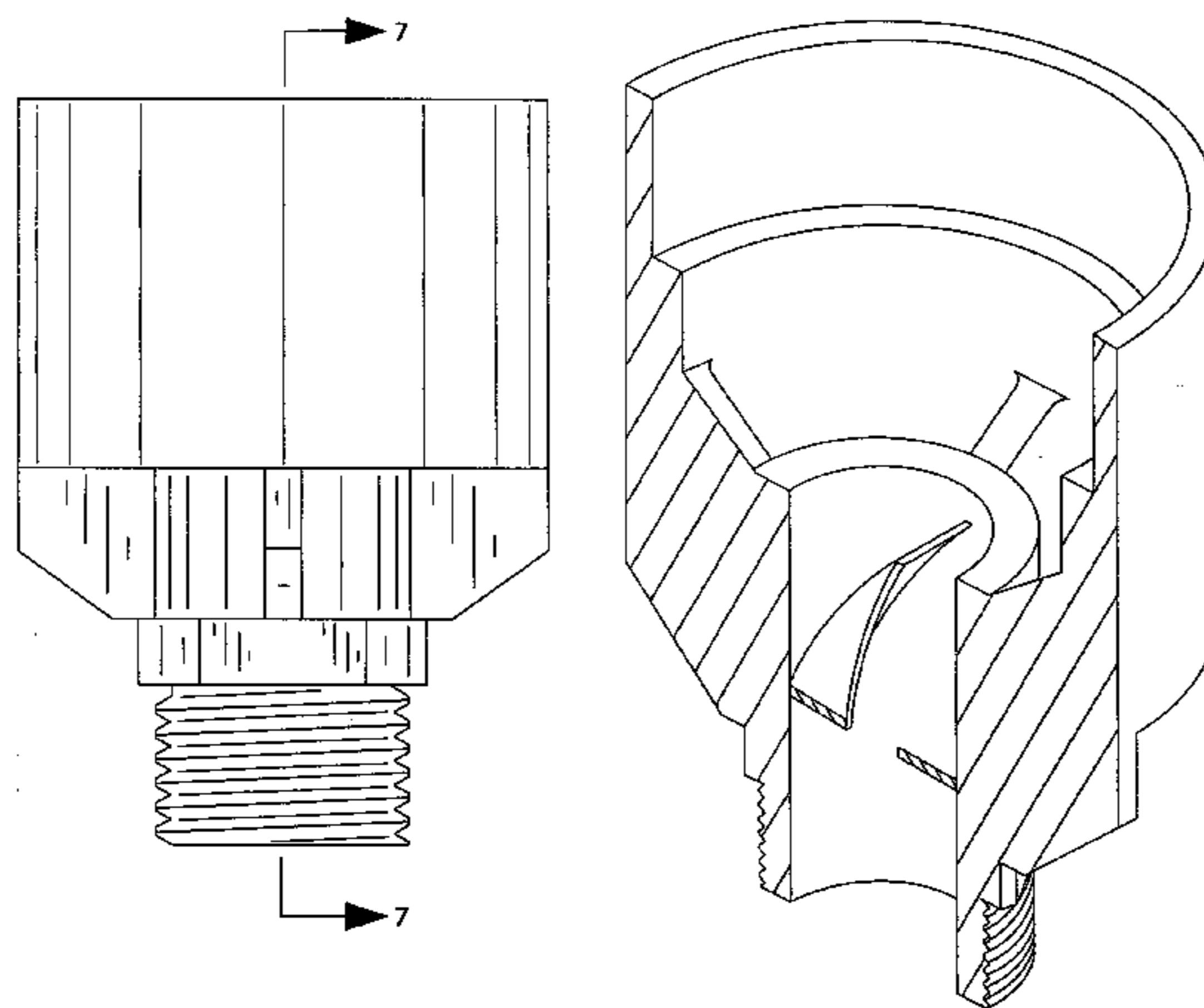
FIG. 4 is a right side elevational view thereof;

FIG. 5 is a top plan view thereof;

FIG. 6 is a bottom plan view thereof; and,

FIG. 7 is a reference cross-sectional perspective view of the motionless mixer shown in FIGS. 1-6, taken along a plane including a Center axis of the motionless mixer.

**1 Claim, 7 Drawing Sheets**



# US D625,387 S

Page 2

---

## U.S. PATENT DOCUMENTS

2008/0232191 A1 9/2008 Keller  
2009/0122638 A1 5/2009 Sato et al.

## FOREIGN PATENT DOCUMENTS

JP 2001-50425 A 2/2001

JP	2001-62269 A	3/2001
JP	2003-181256 A	7/2003
JP	2005-219036 A	8/2005
WO	WO 00/24502 A1	5/2000

\* cited by examiner

Fig. 1

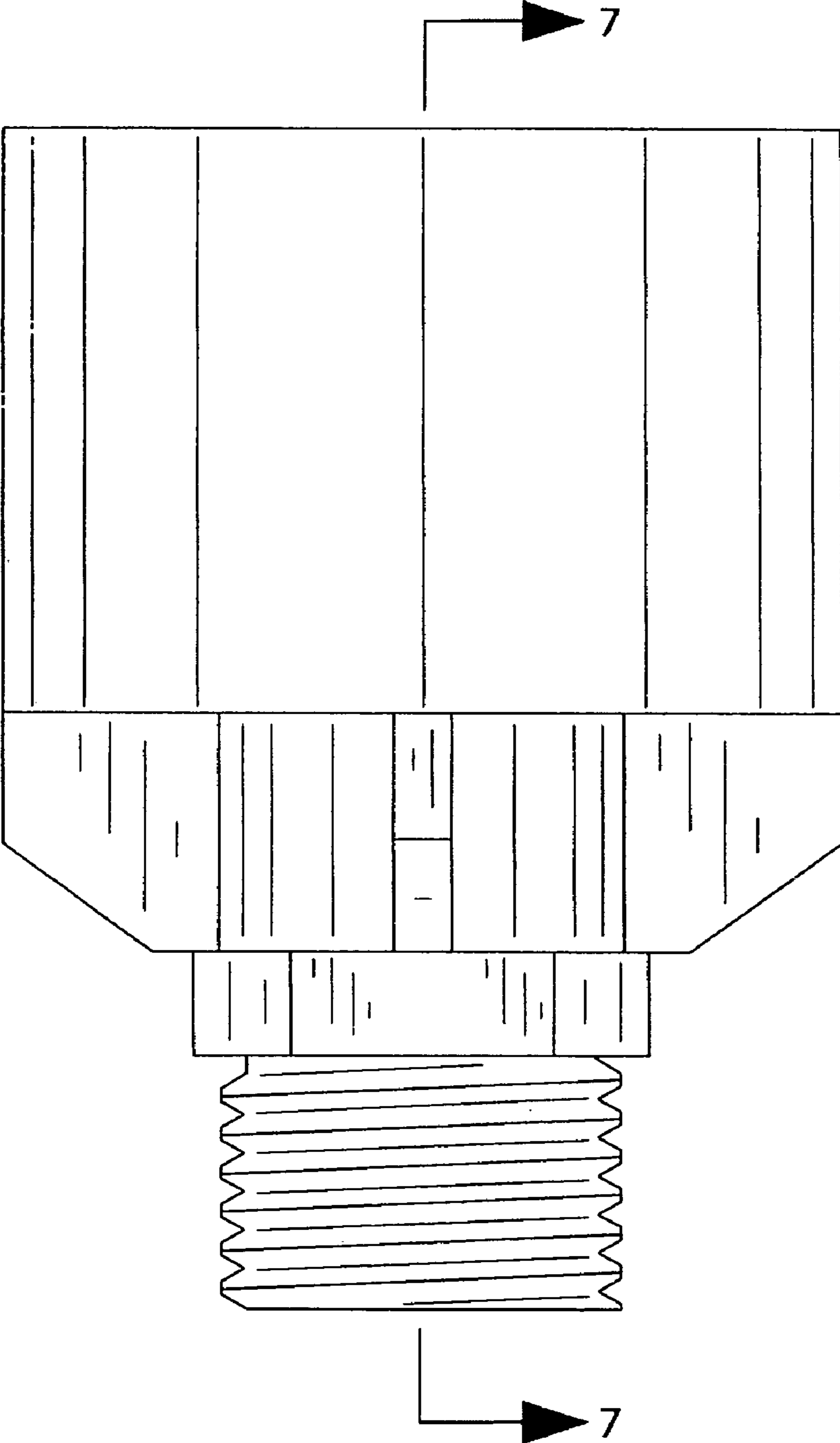


Fig.2

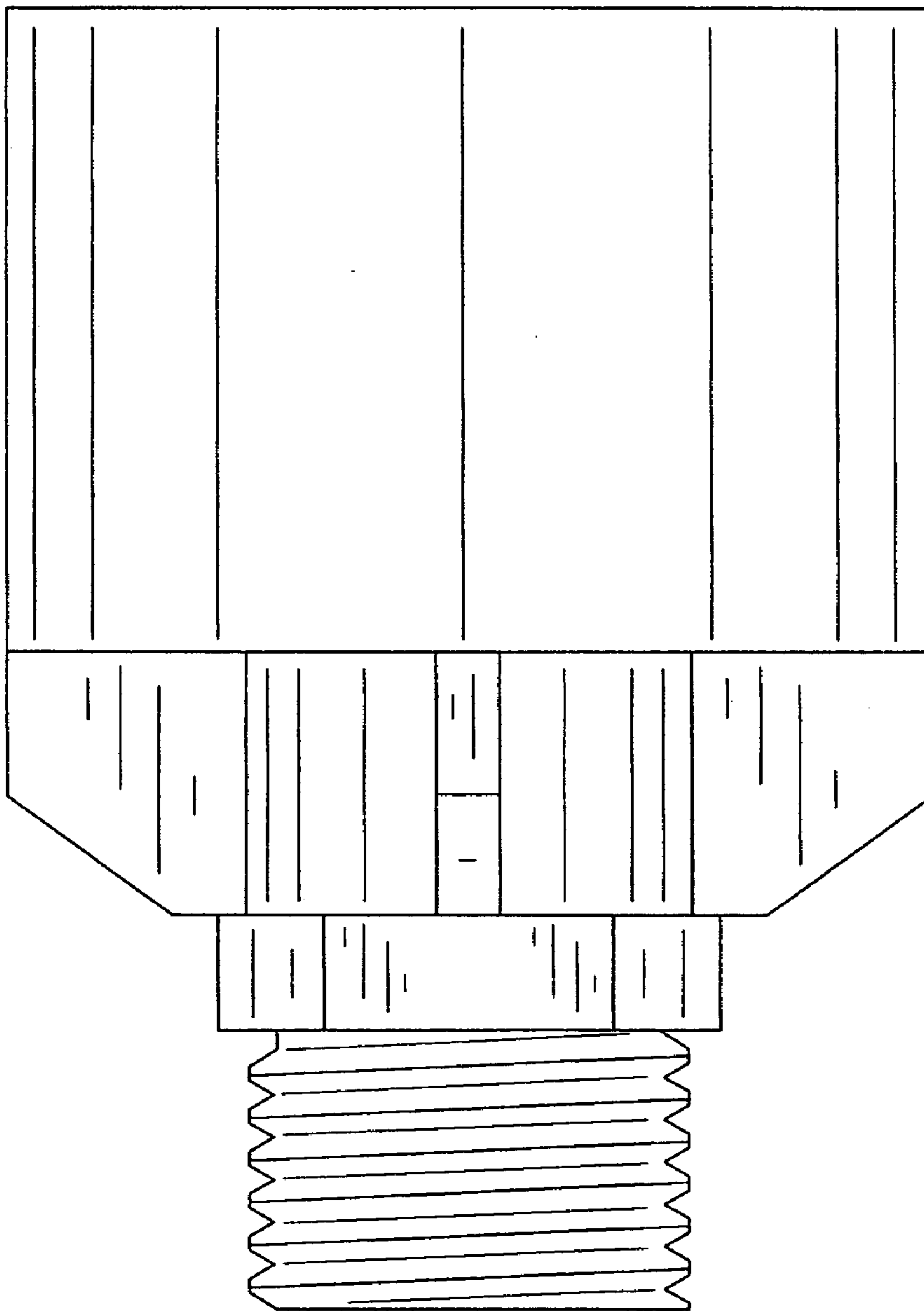


Fig.3

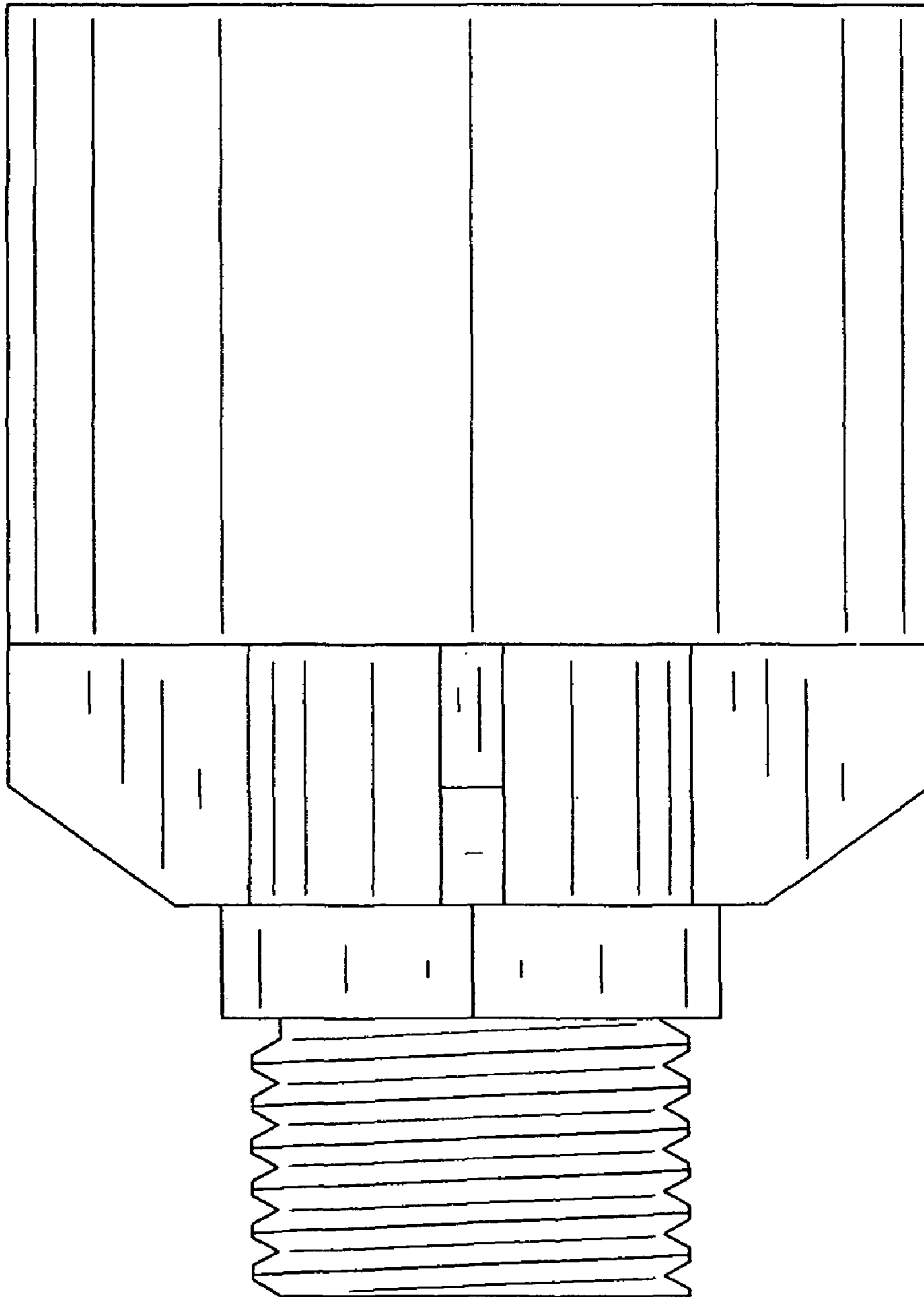


Fig.4

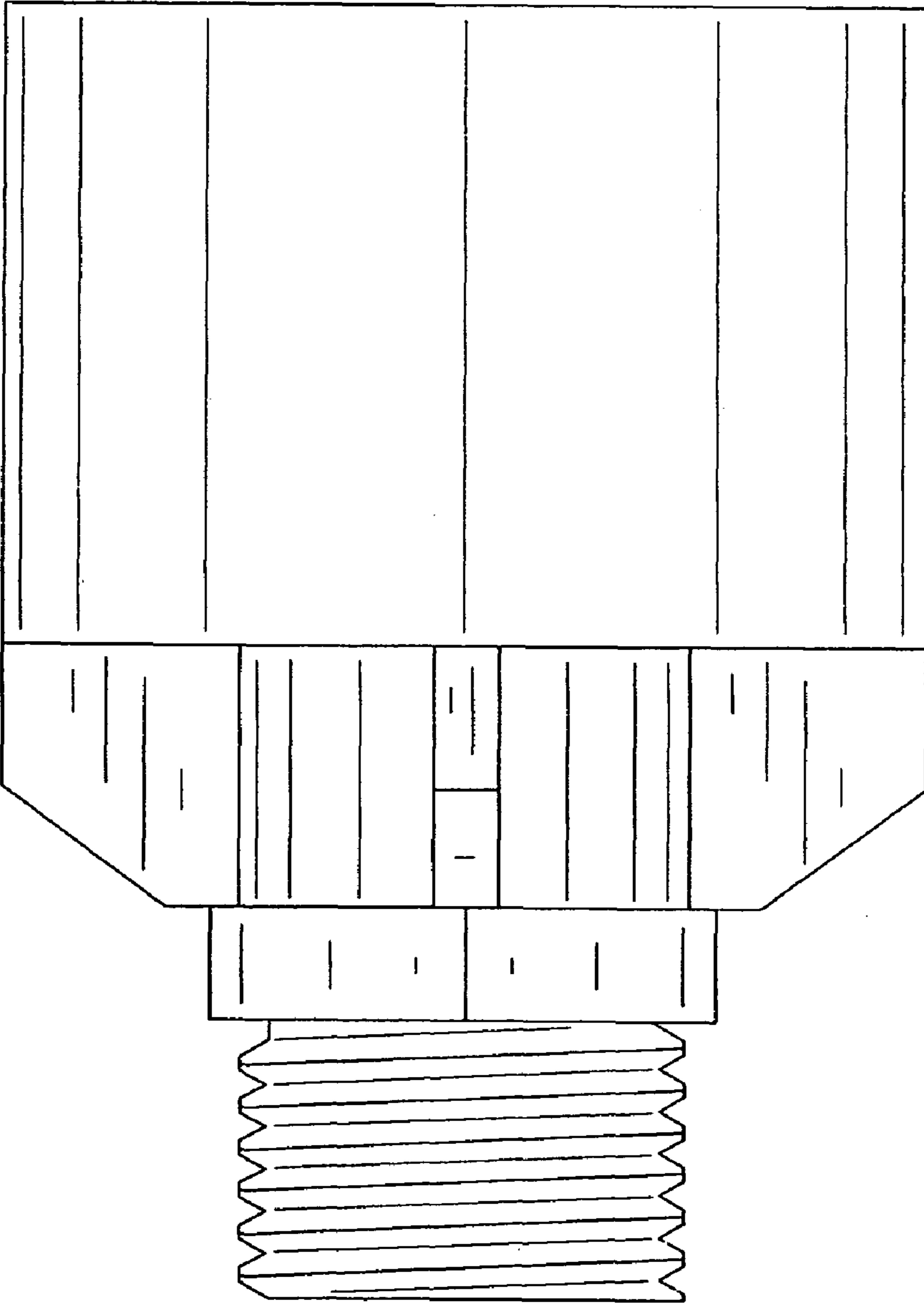


Fig.5

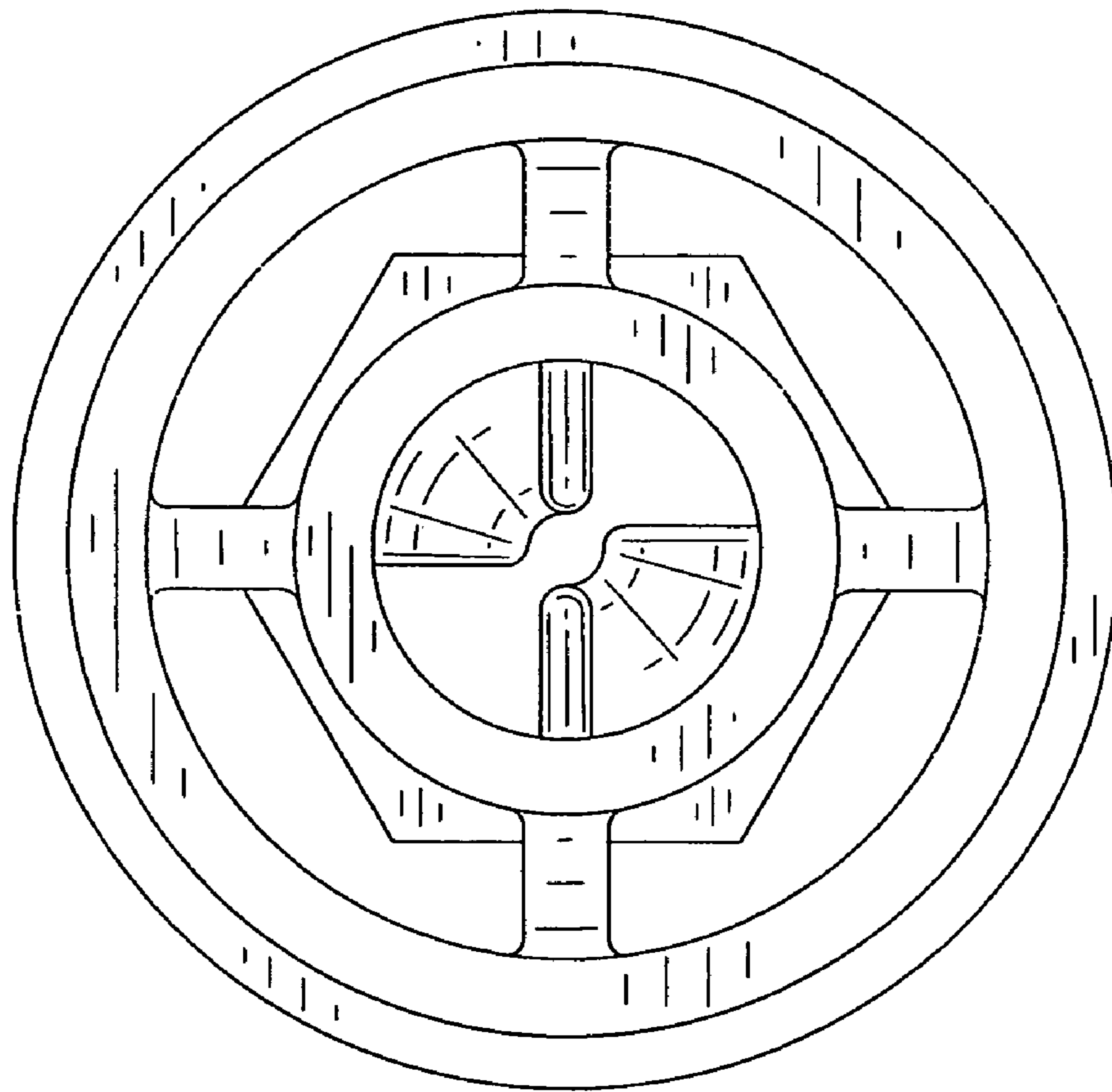


Fig.6

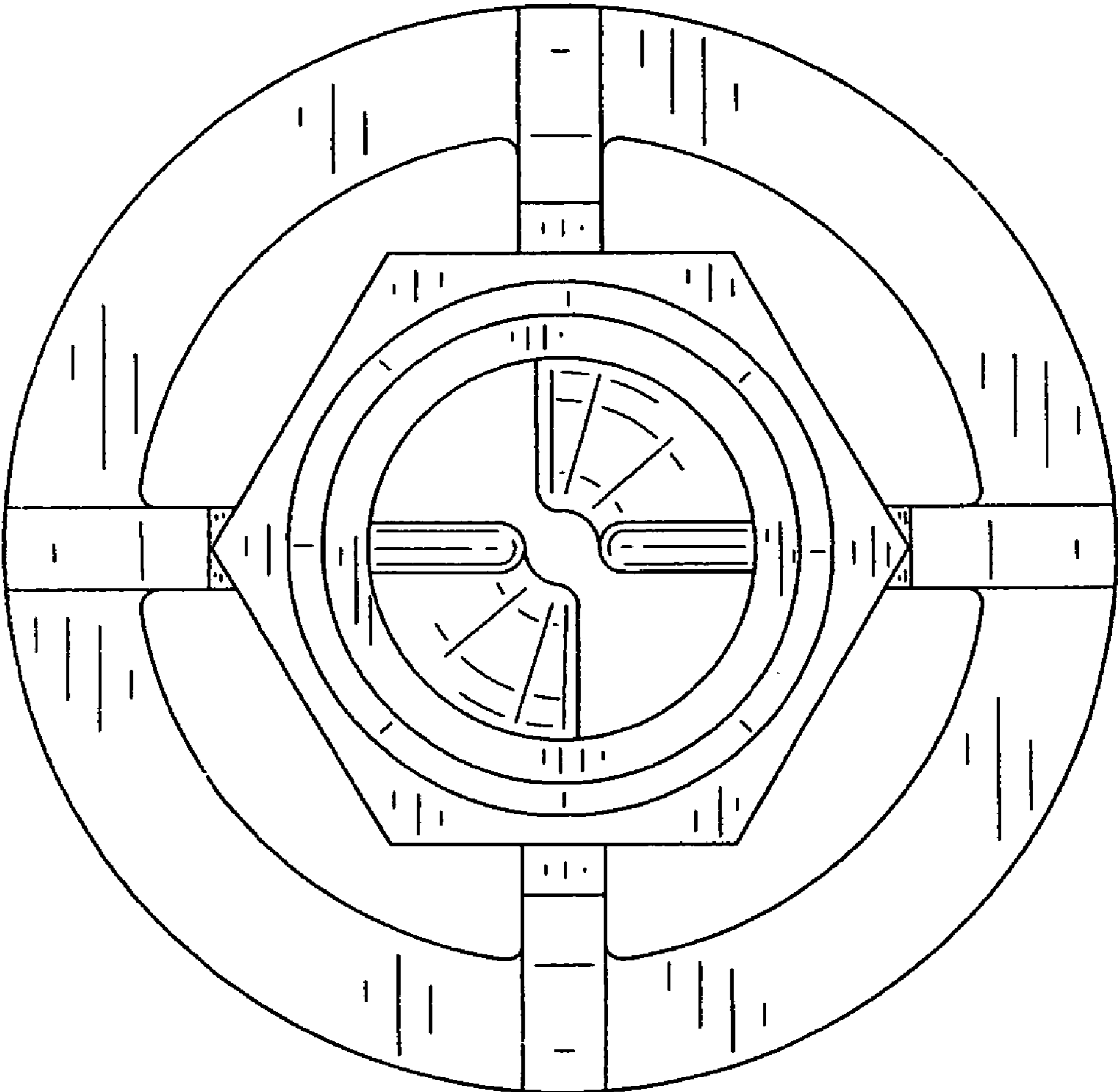




Fig.7

