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

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(54) **TAPERED HELIX SOCKET**

(76) **Inventor:** **Bill R. Horobec**, 4900 Brittany Dr.,  
Suite 904, St. Petersburg, FL (US)  
33715

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

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(51) **LOC (8) Cl.** ..... **08-05**

(52) **U.S. Cl.** ..... **D8/29**

(58) **Field of Classification Search** ..... D8/21-29;  
81/119, 121.1, 120, 124.3, 124.4, 124.6, 124.7,  
81/125, 177.1, 177.2, 177.85, 436, 177.6,  
81/186, 58-63.2, 3.09, 486, 158, 122, 53.2,  
81/441

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,161,090	A *	12/1964	McLellan	.....	81/53.2
5,551,320	A *	9/1996	Horobec et al.	.....	81/53.2
5,737,981	A *	4/1998	Hildebrand	.....	81/53.2
5,904,076	A *	5/1999	Siwy	.....	81/121.1
6,047,620	A *	4/2000	Kozak et al.	.....	81/441
6,339,976	B1 *	1/2002	Jordan	.....	81/53.2
6,598,498	B1 *	7/2003	Pigford et al.	.....	81/53.2
6,877,402	B1 *	4/2005	Pigford et al.	.....	81/53.2
7,152,508	B2 *	12/2006	McCalley et al.	.....	81/53.2
7,152,509	B2 *	12/2006	McCalley et al.	.....	81/53.2

**OTHER PUBLICATIONS**

Snap-on tool catalog dated 1990 pp. 246 and 247.\*

\* cited by examiner

*Primary Examiner*—Raphael Barkai

*Assistant Examiner*—Randall H. Gholson

(74) *Attorney, Agent, or Firm*—Larson & Larson; Herbert  
W. Larson

(57) **CLAIM**

The ornamental design for a tapered helix socket, as shown  
and described.

**DESCRIPTION**

FIG. 1 is a top plan view of the tapered helix socket, showing  
my novel design;

FIG. 2 is a bottom plan view thereof;

FIG. 3 is a front elevational view thereof;

FIG. 4 is a rear elevational view thereof;

FIG. 5 is a left side view thereof;

FIG. 6 is a right side view thereof;

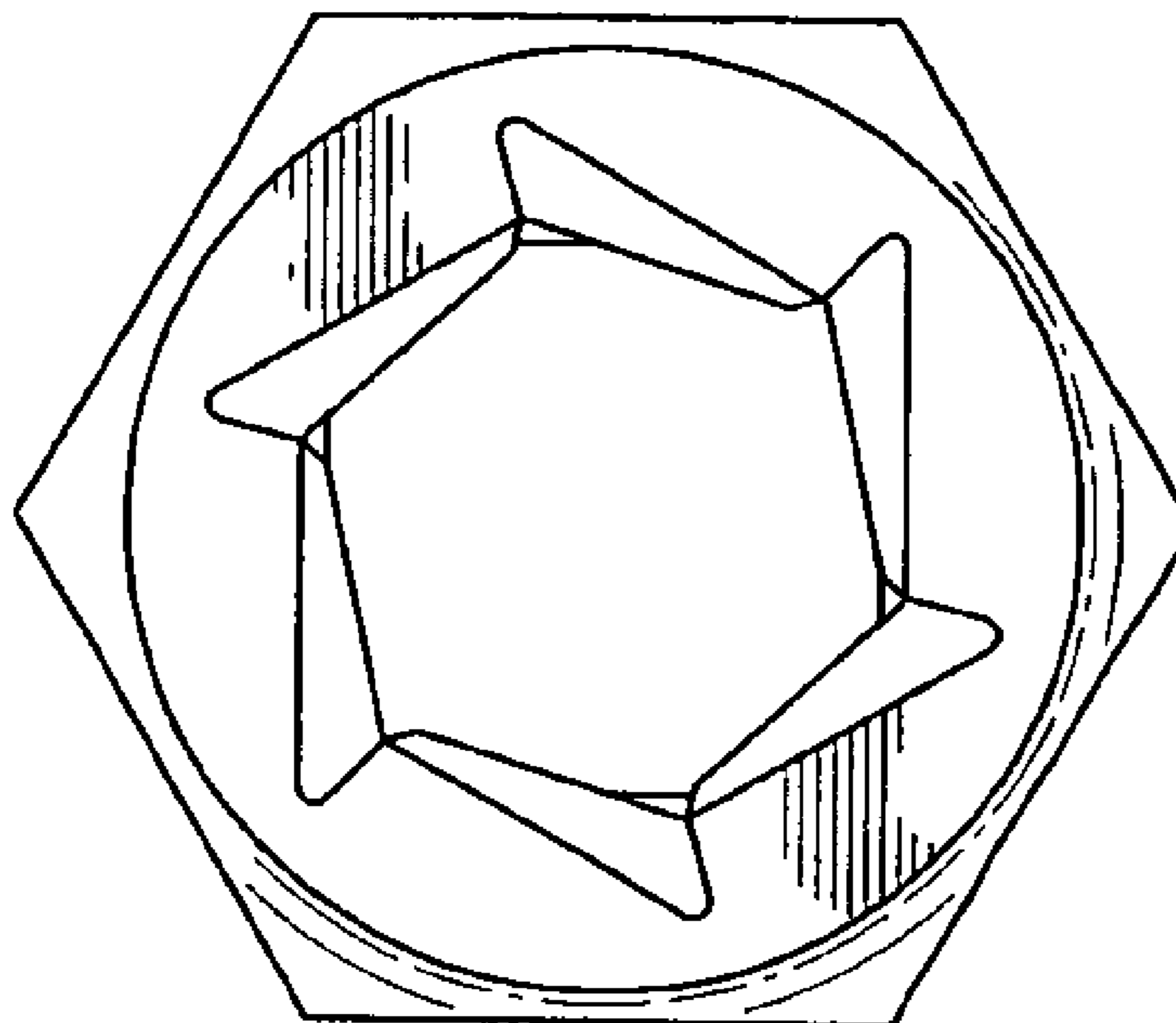
FIG. 7 is an upper perspective view of the tapered helix  
socket of the present invention;

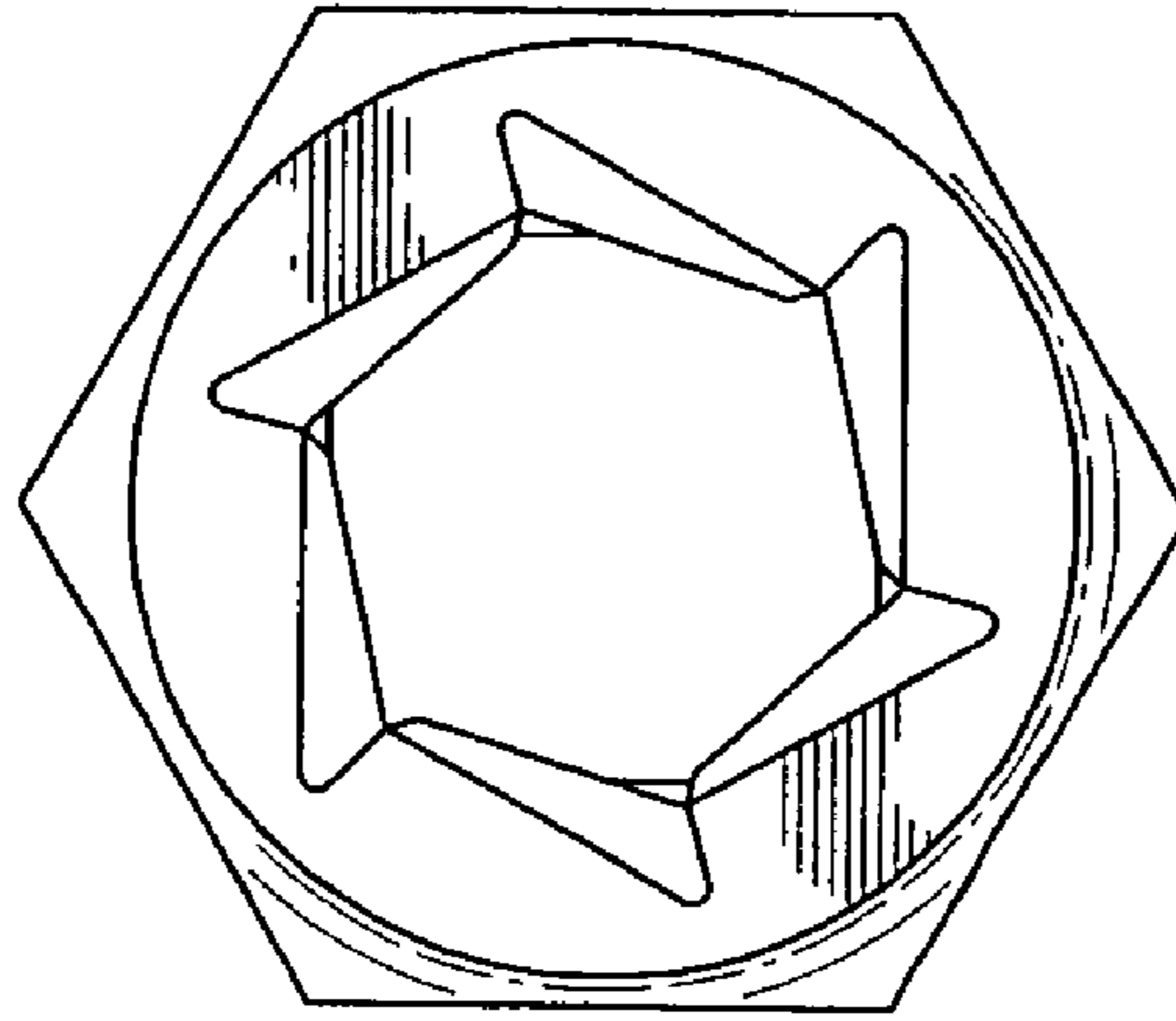
FIG. 8 is a lower perspective view of the tapered helix socket  
of the present invention; and,

FIG. 9 is a perspective view of the tapered helix socket of  
the present invention as shown positioned in a wrench with  
a bolt head removed by the socket.

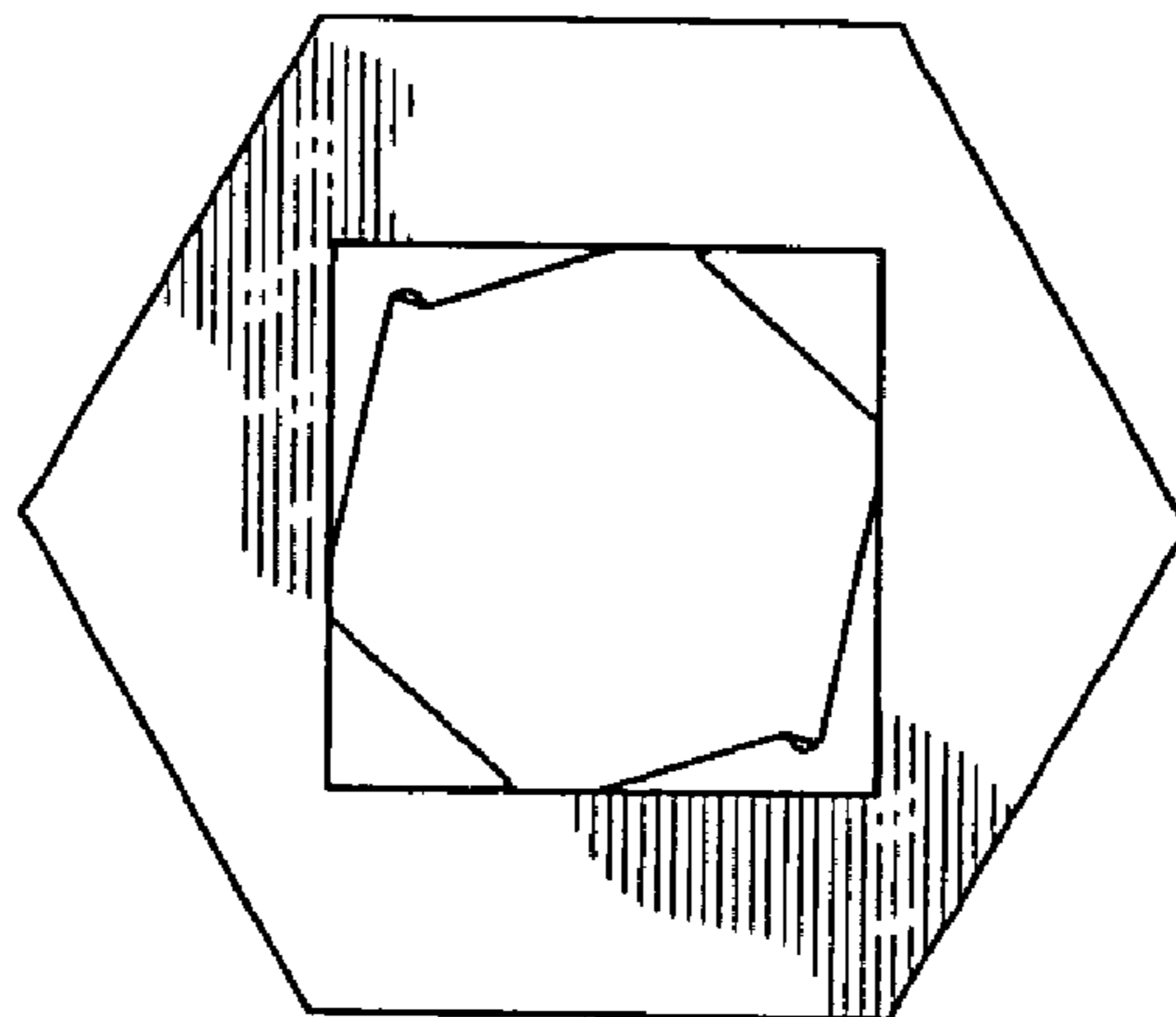
The broken lines shown in FIG. 9 are for illustrative  
purposes only and form no part of the claimed design.

**1 Claim, 5 Drawing Sheets**





**FIG. 1**



**FIG. 2**

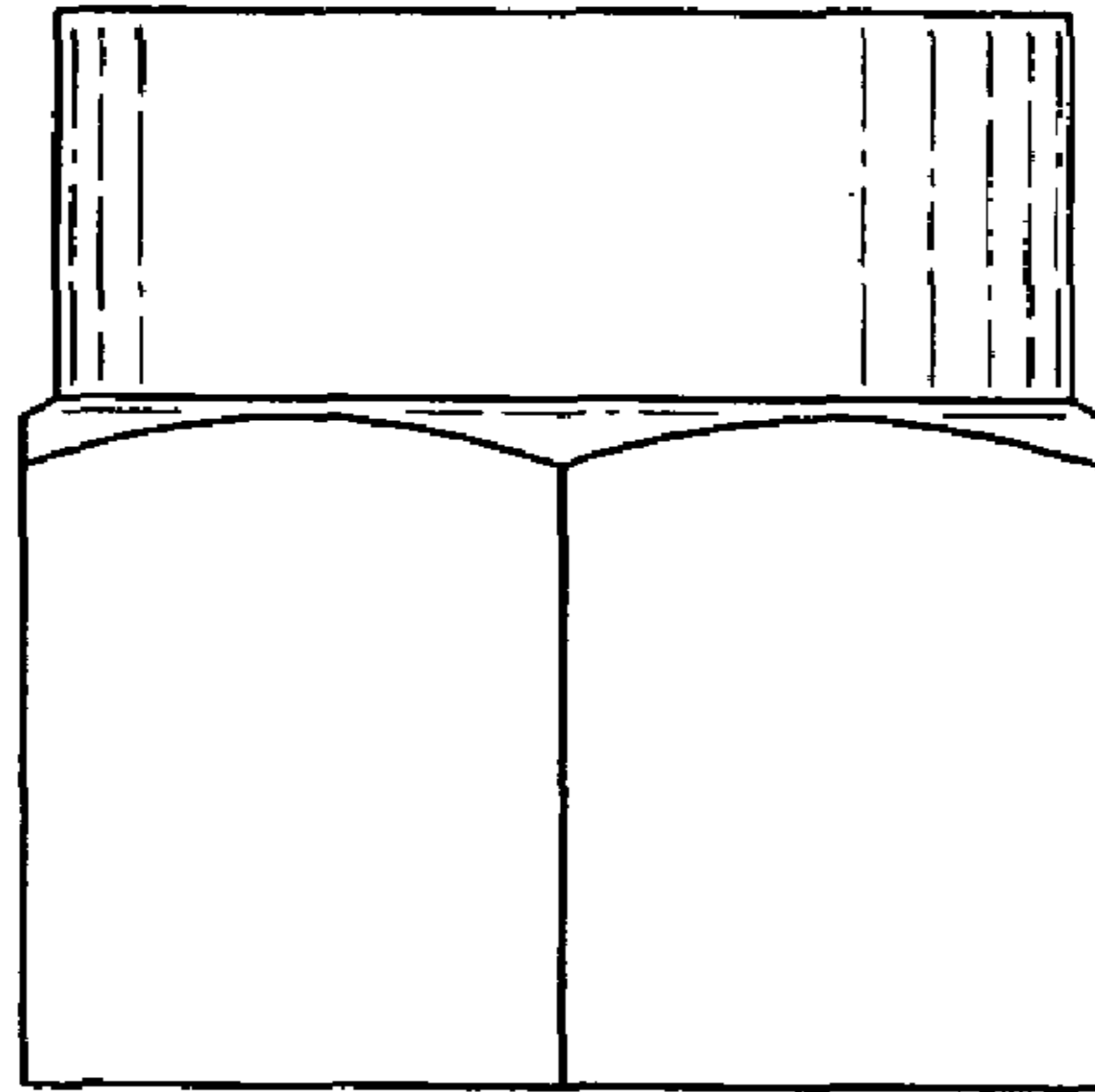


FIG. 3

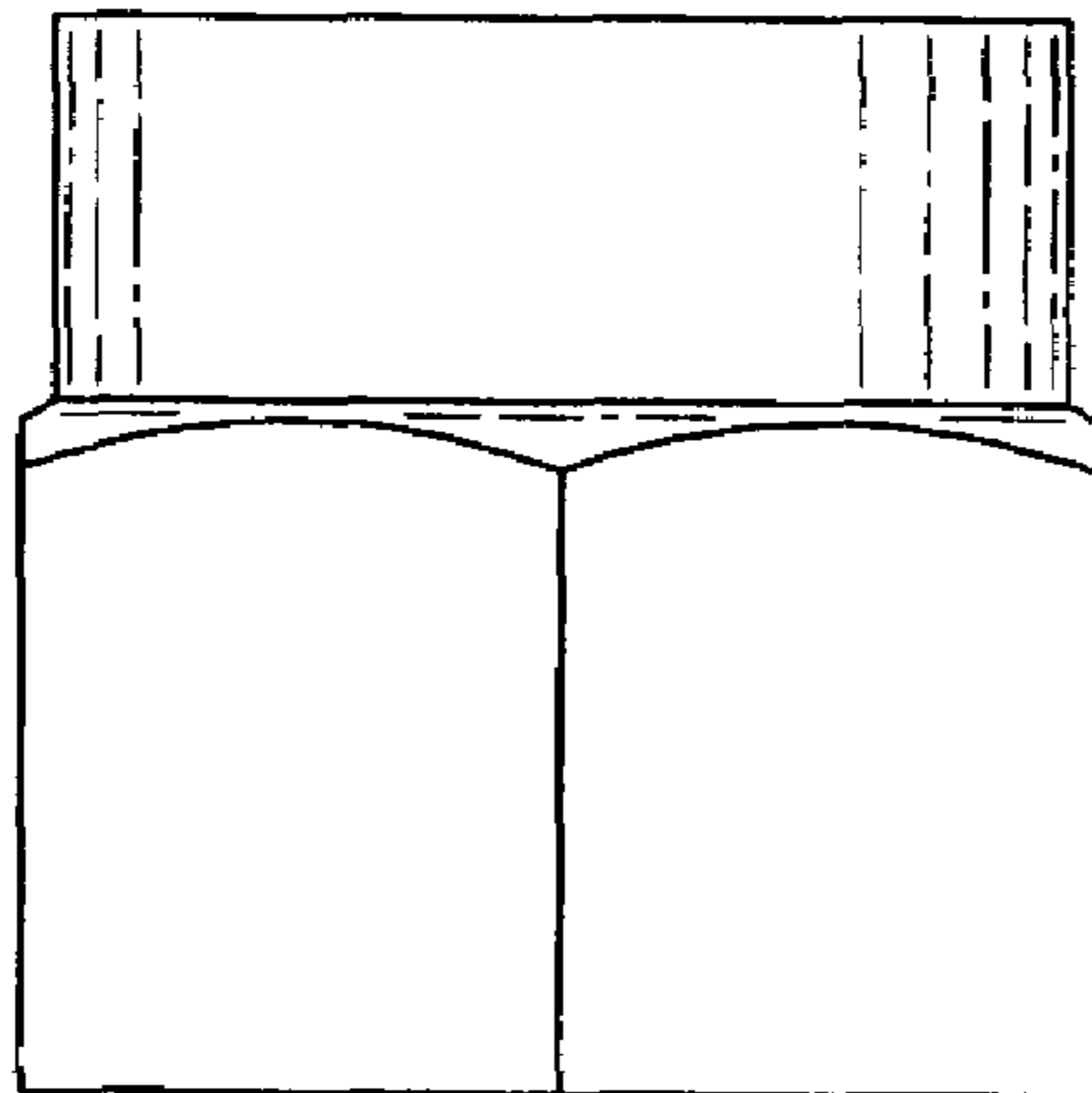


FIG. 4

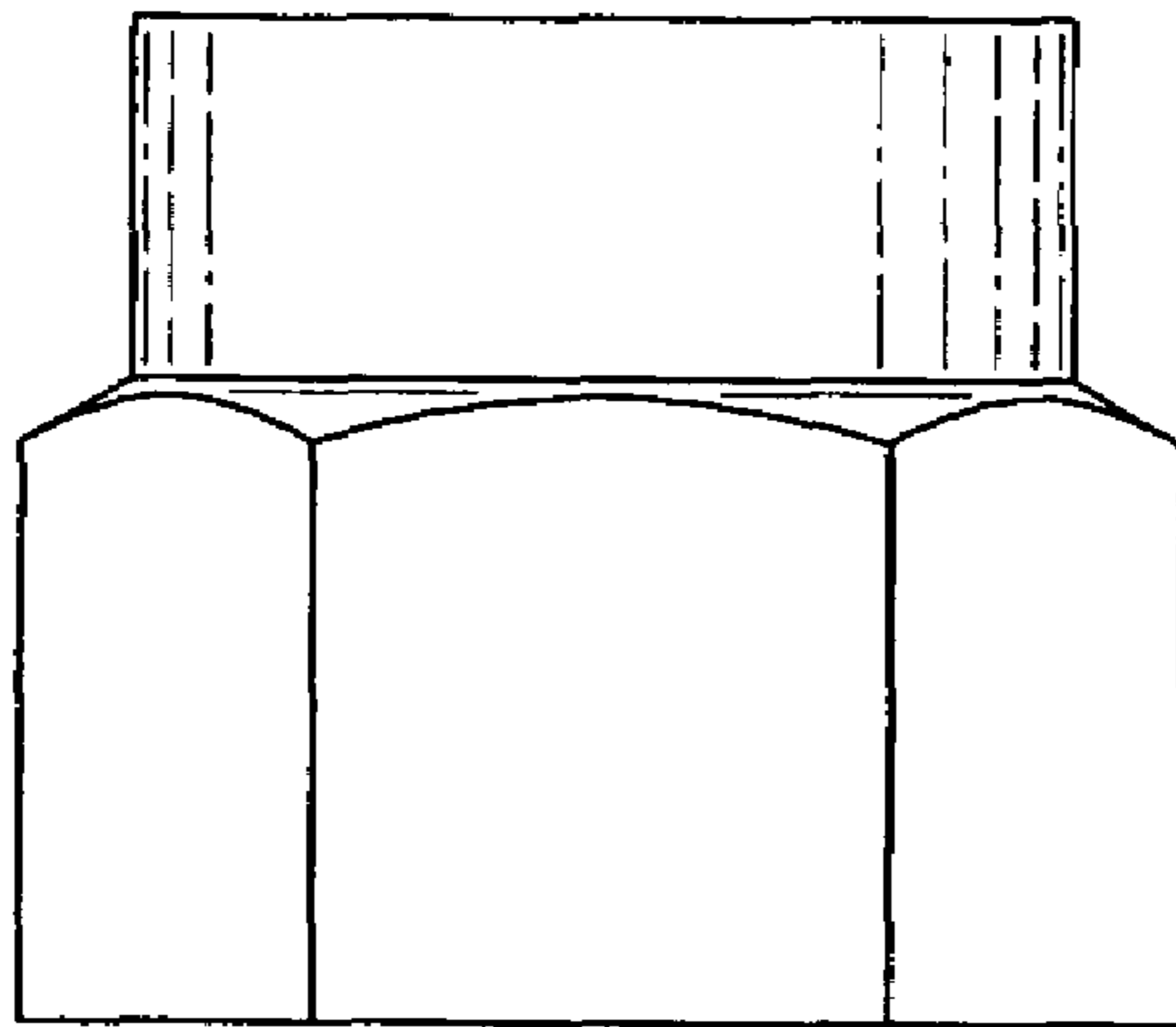


FIG. 5

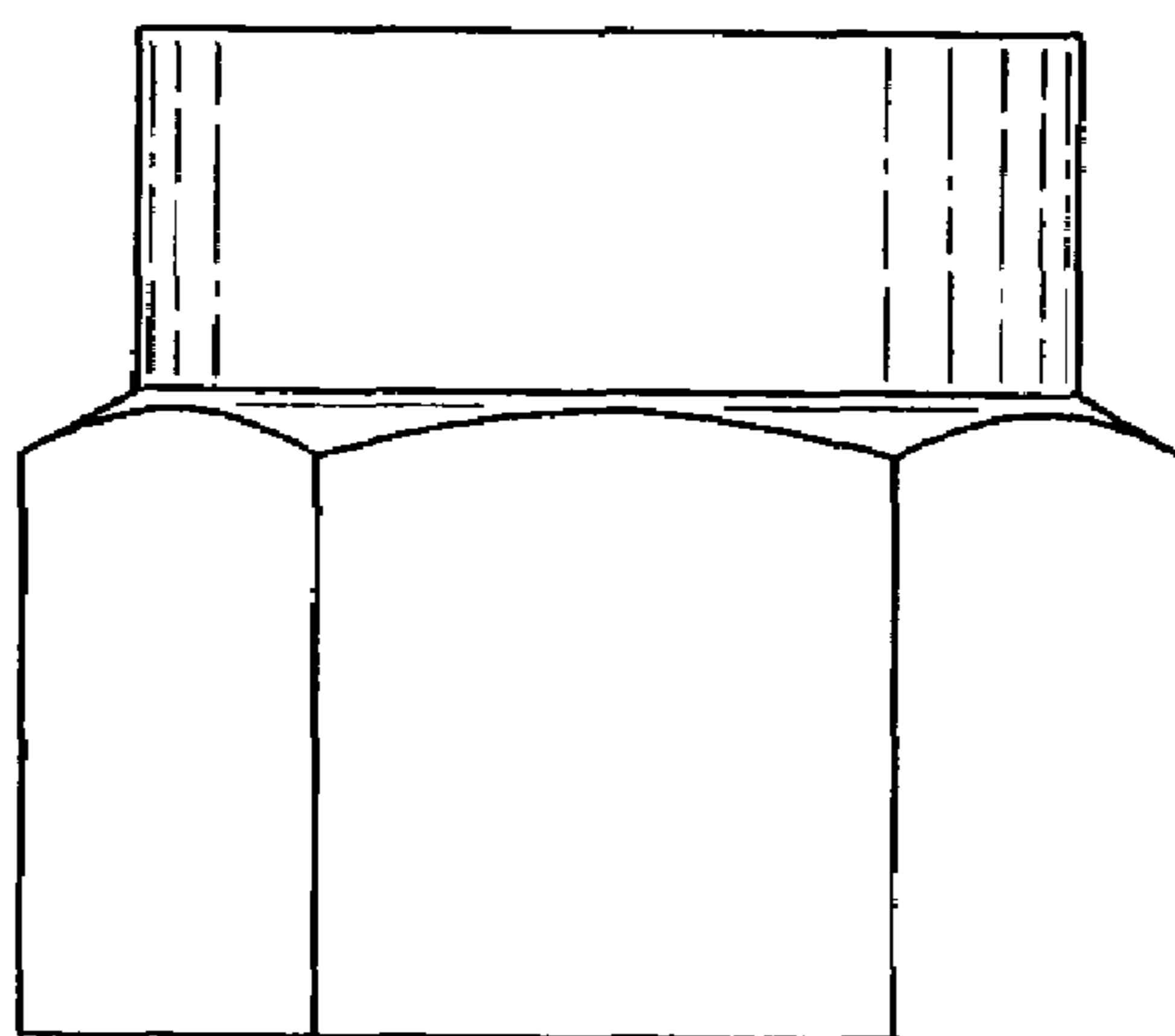
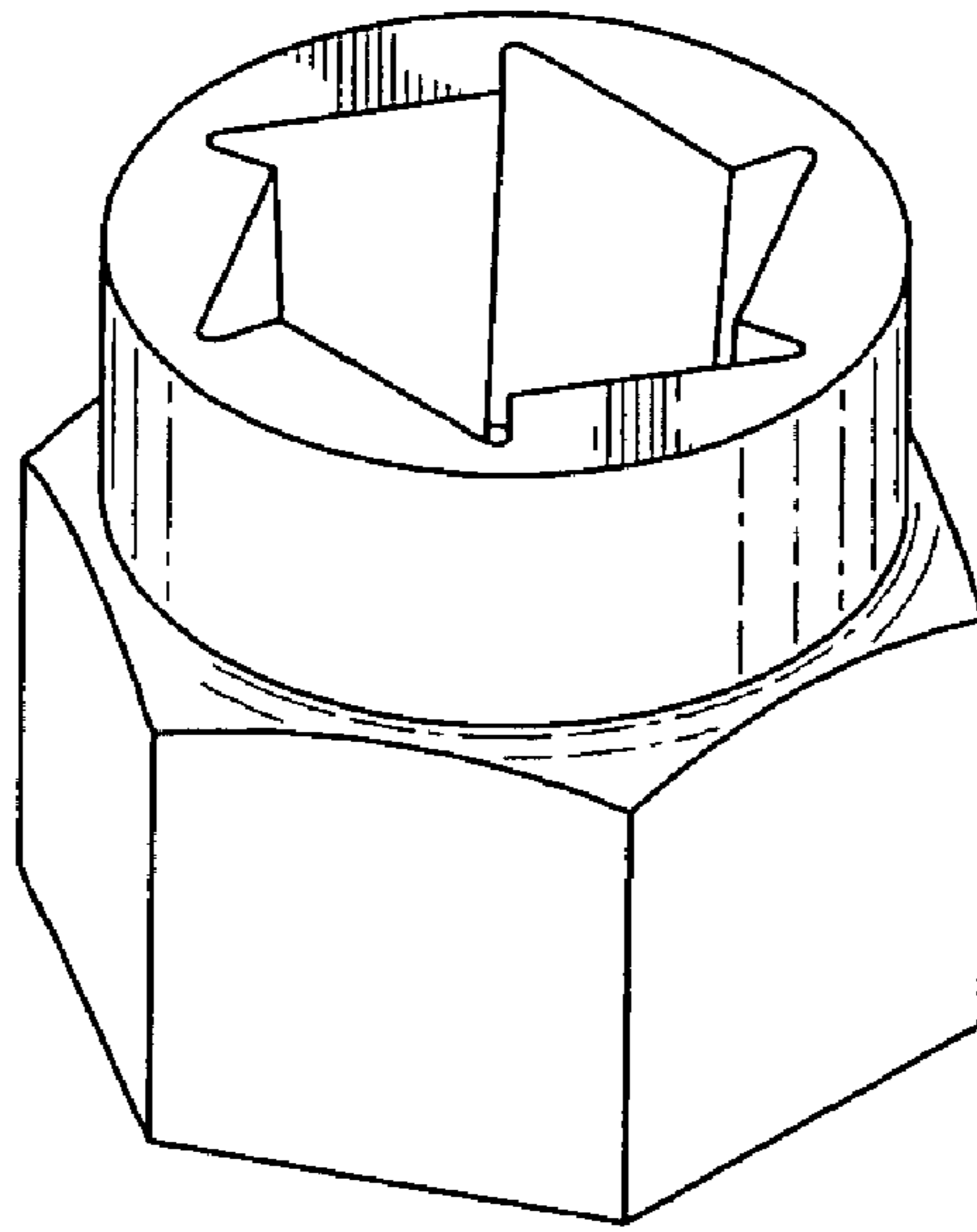
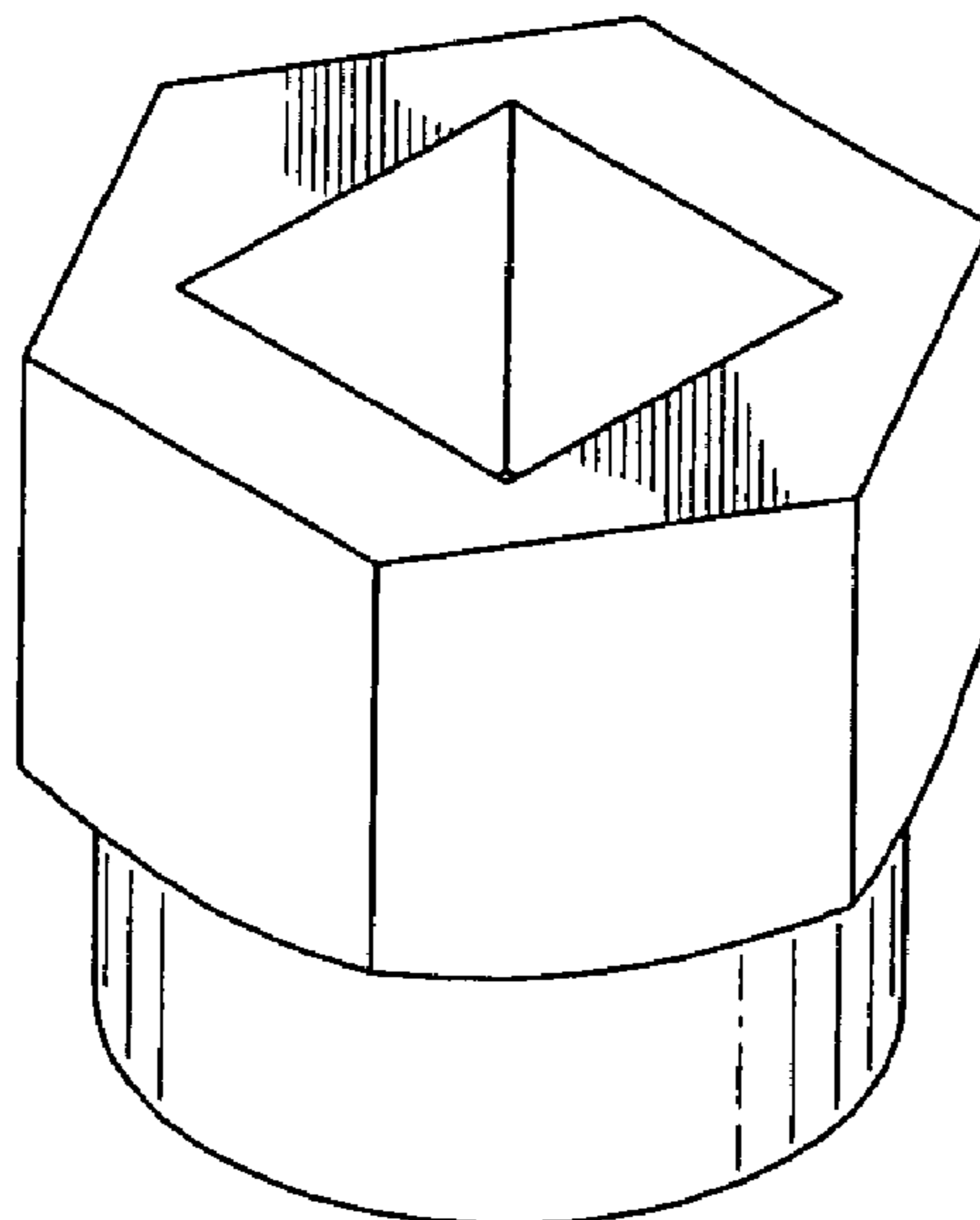


FIG. 6



**FIG. 7**



**FIG. 8**

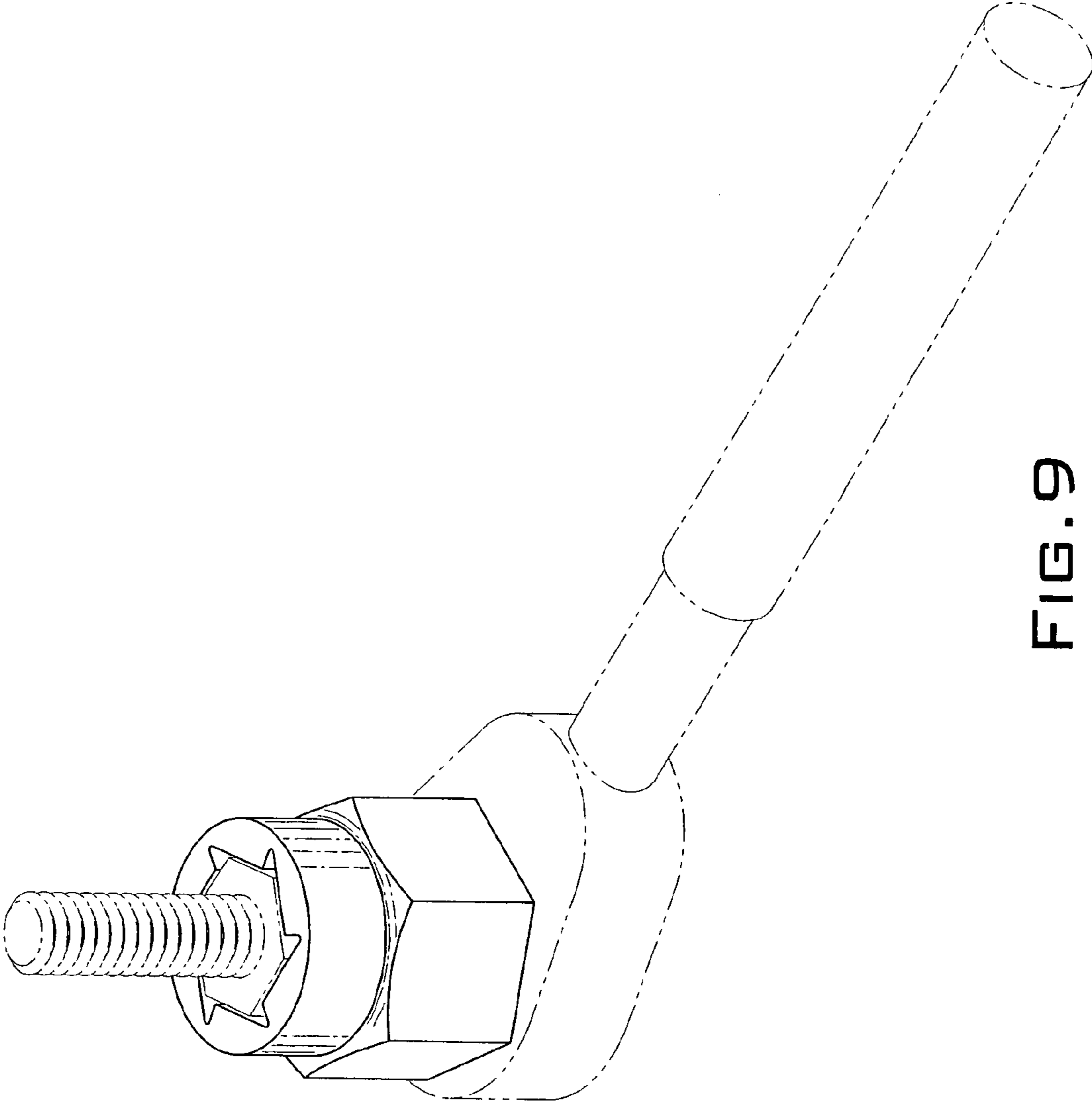


FIG. 9