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(12) **United States Design Patent**
Chou et al.

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(54) **BRIDGE RECTIFIER PACKAGE WITH HEAT SINK**

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

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(51) **LOC (8) Cl.** **13-03**

(52) **U.S. Cl.** **D13/182**

(58) **Field of Classification Search** D13/179;
165/80.3, 104.33, 151, 122, 185; 257/706,
257/707, 718-722, 177, 347; 361/687, 695,
361/697, 700, 702, 704, 709, 710, 711, 719
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,503,452	A *	3/1985	Yokozawa et al.	.....	257/670
4,803,545	A *	2/1989	Birkle	.....	257/718
4,827,329	A *	5/1989	Schach et al.	.....	257/796
5,450,284	A *	9/1995	Wekell	.....	361/710
5,886,400	A *	3/1999	Letterman et al.	.....	257/675
6,255,722	B1 *	7/2001	Ewer et al.	.....	257/676
6,362,517	B1 *	3/2002	Bell et al.	.....	257/678
6,476,481	B2 *	11/2002	Woodworth et al.	.....	257/696
6,828,170	B2 *	12/2004	Roberts et al.	.....	438/27
6,891,256	B2 *	5/2005	Joshi et al.	.....	257/676
7,095,099	B2 *	8/2006	Oliver et al.	.....	257/676
2005/0145998	A1 *	7/2005	Harnden et al.	.....	257/666

2006/0001133	A1 *	1/2006	McGarvey et al.	.....	257/666
2006/0033122	A1 *	2/2006	Pavier et al.	.....	257/177
2006/0255362	A1 *	11/2006	Otremba	.....	257/177
2007/0012947	A1 *	1/2007	Laking	257/150
2007/0063212	A1 *	3/2007	Watanabe et al.	257/99

* cited by examiner

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(57) **CLAIM**

We claim the ornamental design for a new bridge rectifier package with heat sink, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view, left top of a first embodiment of a new bridge rectifier package with heat sink;

FIG. 2 is a top view thereof;

FIG. 3 is a bottom view thereof;

FIG. 4 is a left of front view thereof;

FIG. 5 is a right of front view thereof;

FIG. 6 is a front view thereof; and

FIG. 7 is a back view thereof;

FIG. 8 is a perspective view, left top of a second embodiment of a new bridge rectifier package with heat sink;

FIG. 9 is a top view thereof;

FIG. 10 is a bottom view thereof;

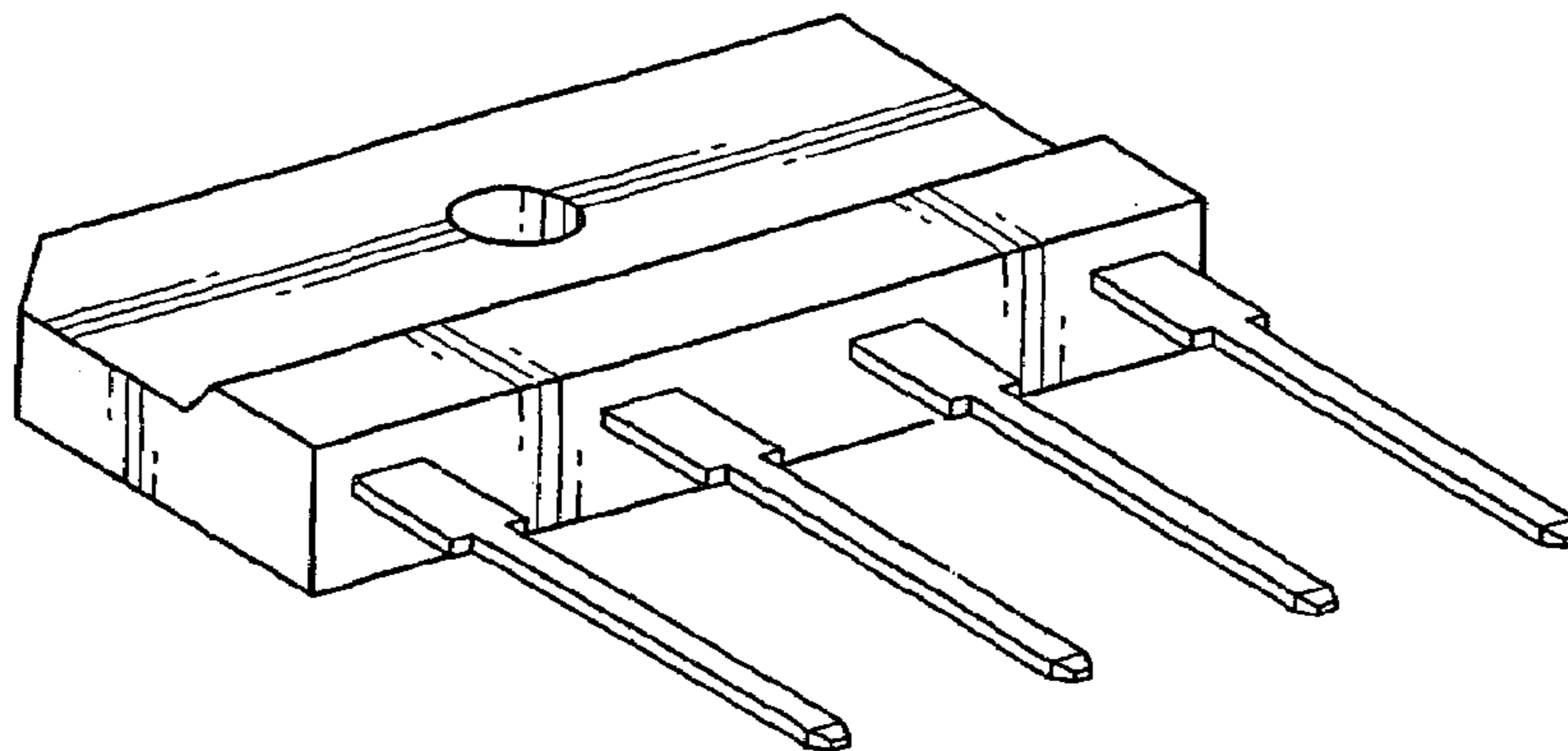
FIG. 11 is a left of front view thereof;

FIG. 12 is a right of front view thereof;

FIG. 13 is a front view thereof; and,

FIG. 14 is a back view thereof.

1 Claim, 4 Drawing Sheets



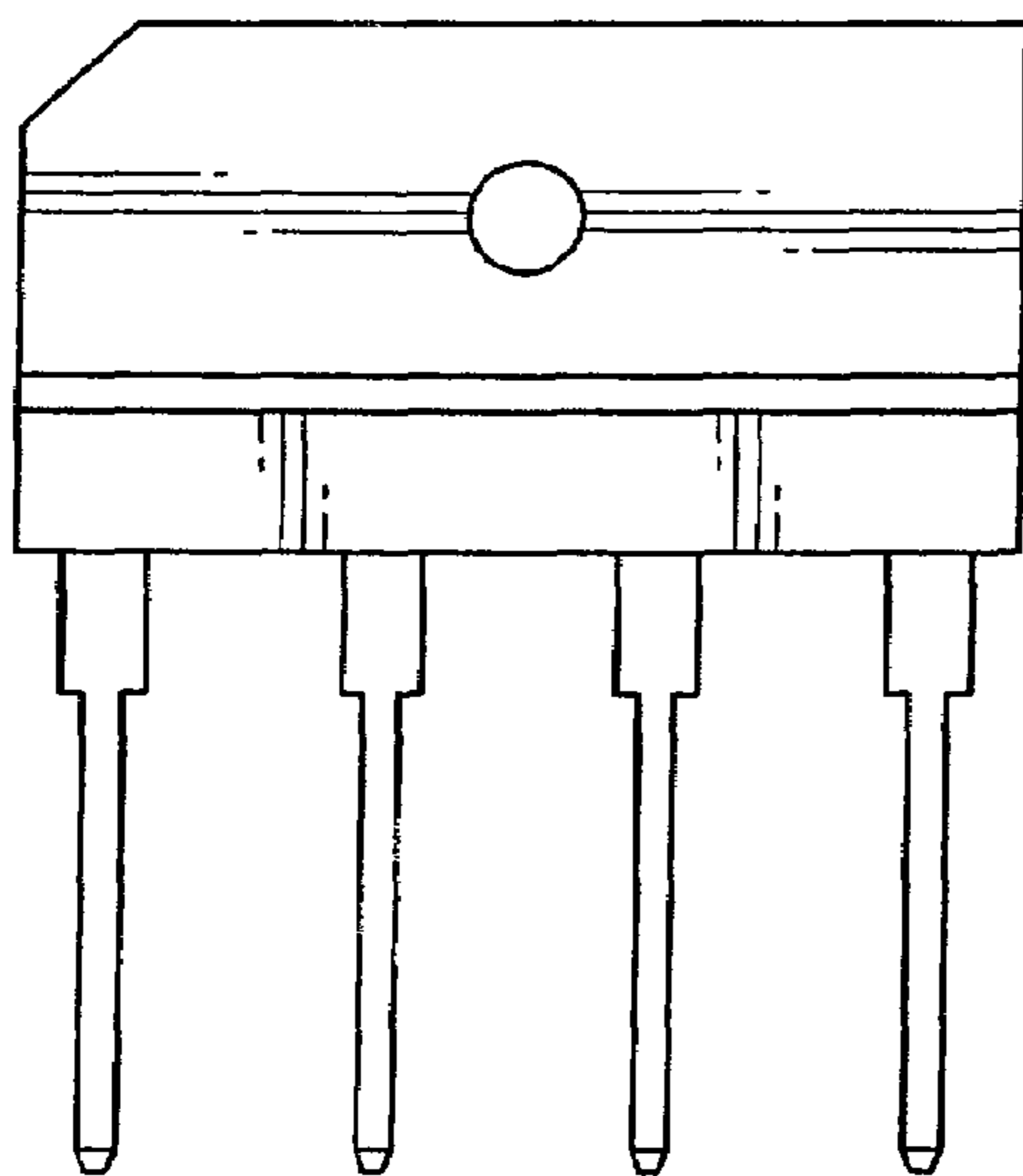
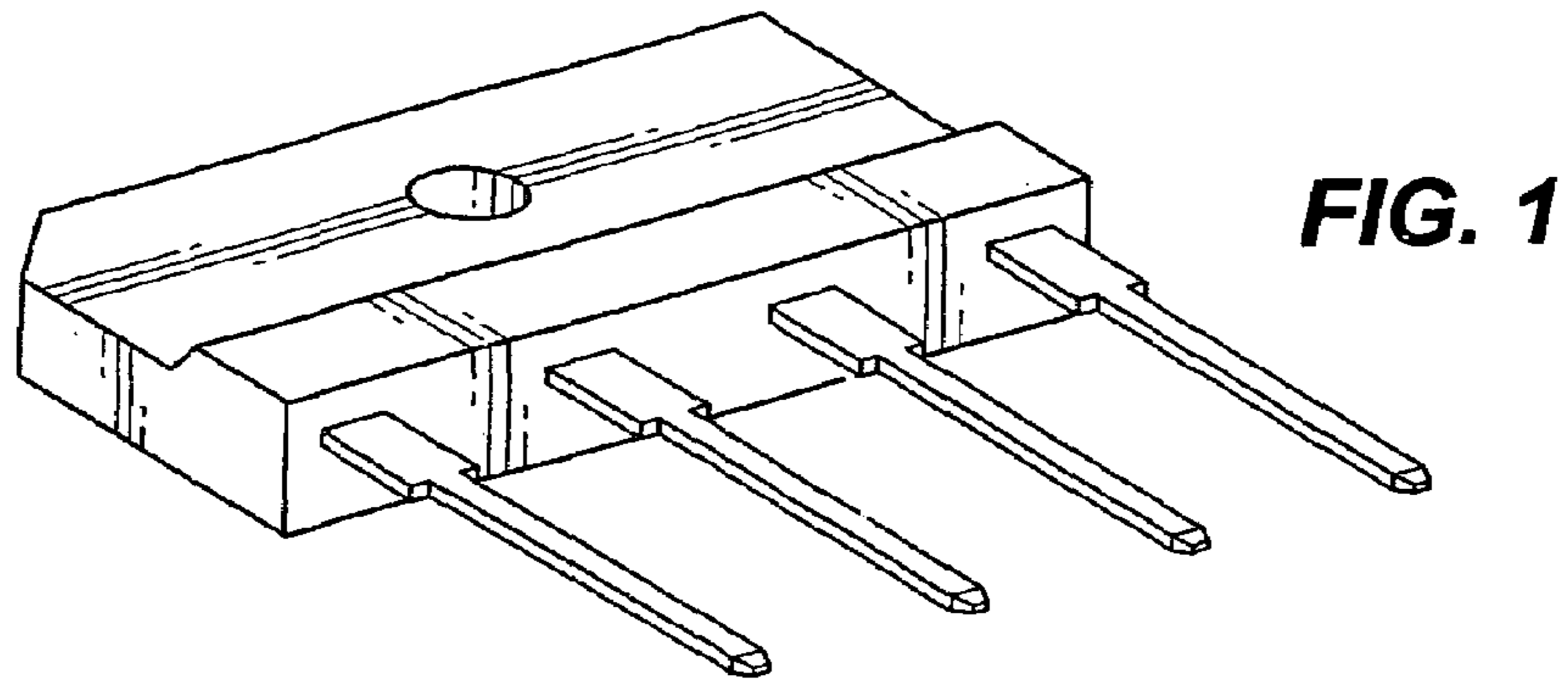


FIG. 2

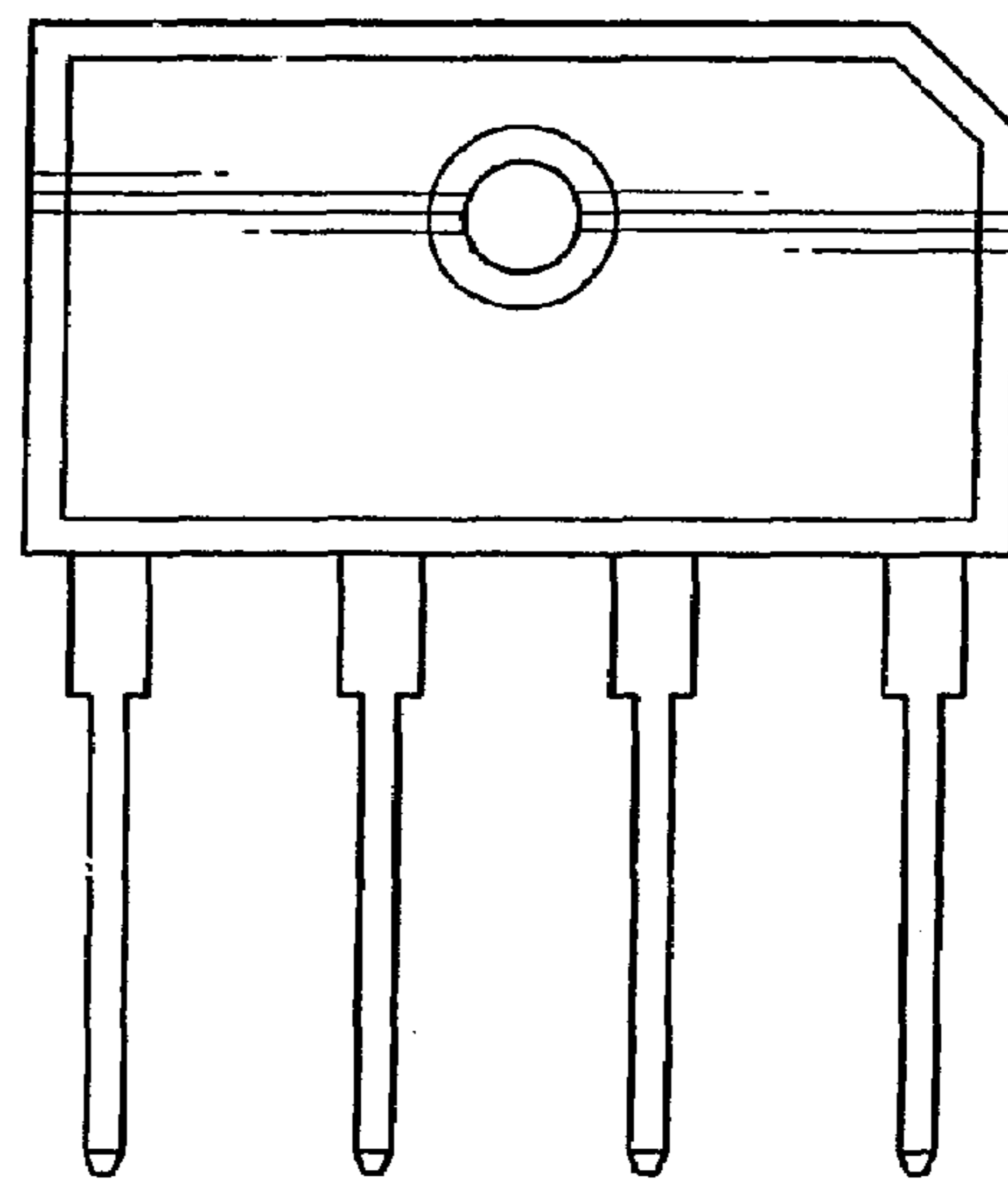


FIG. 3

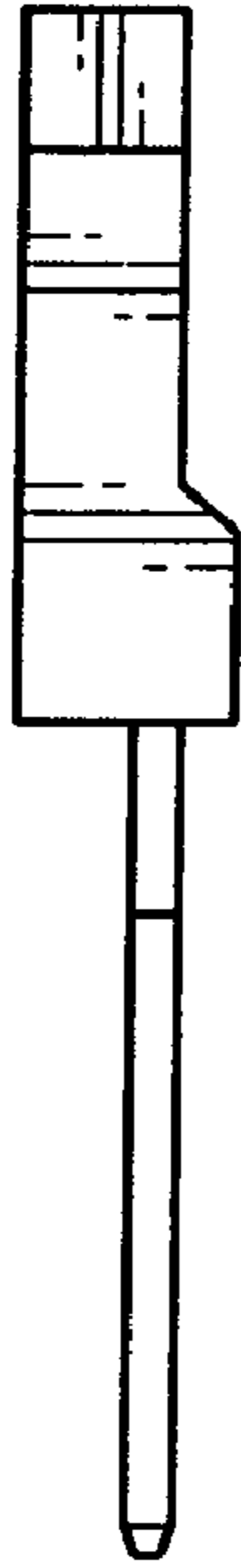


FIG. 4

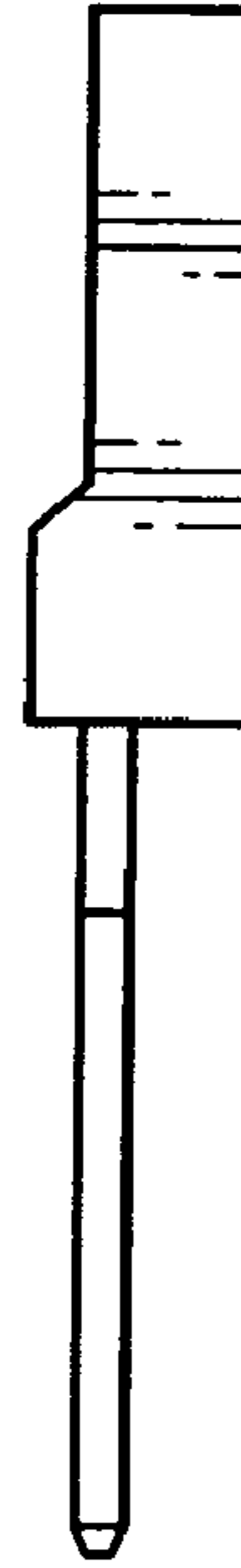


FIG. 5



FIG. 6

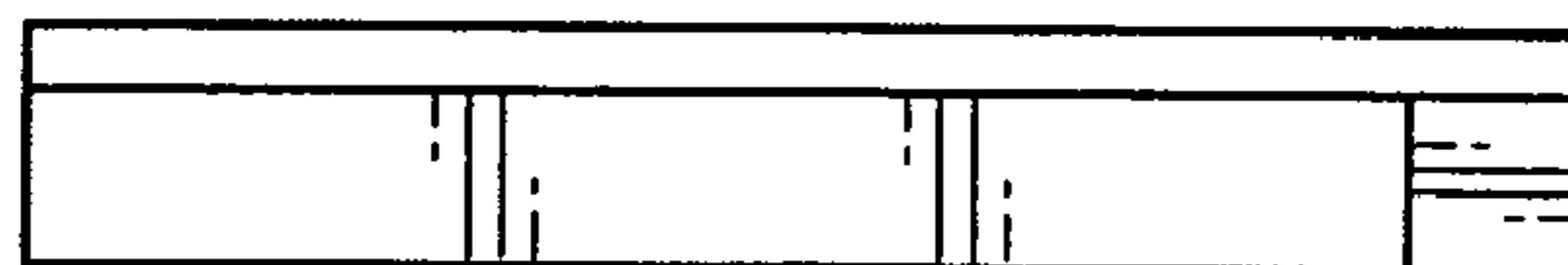


FIG. 7

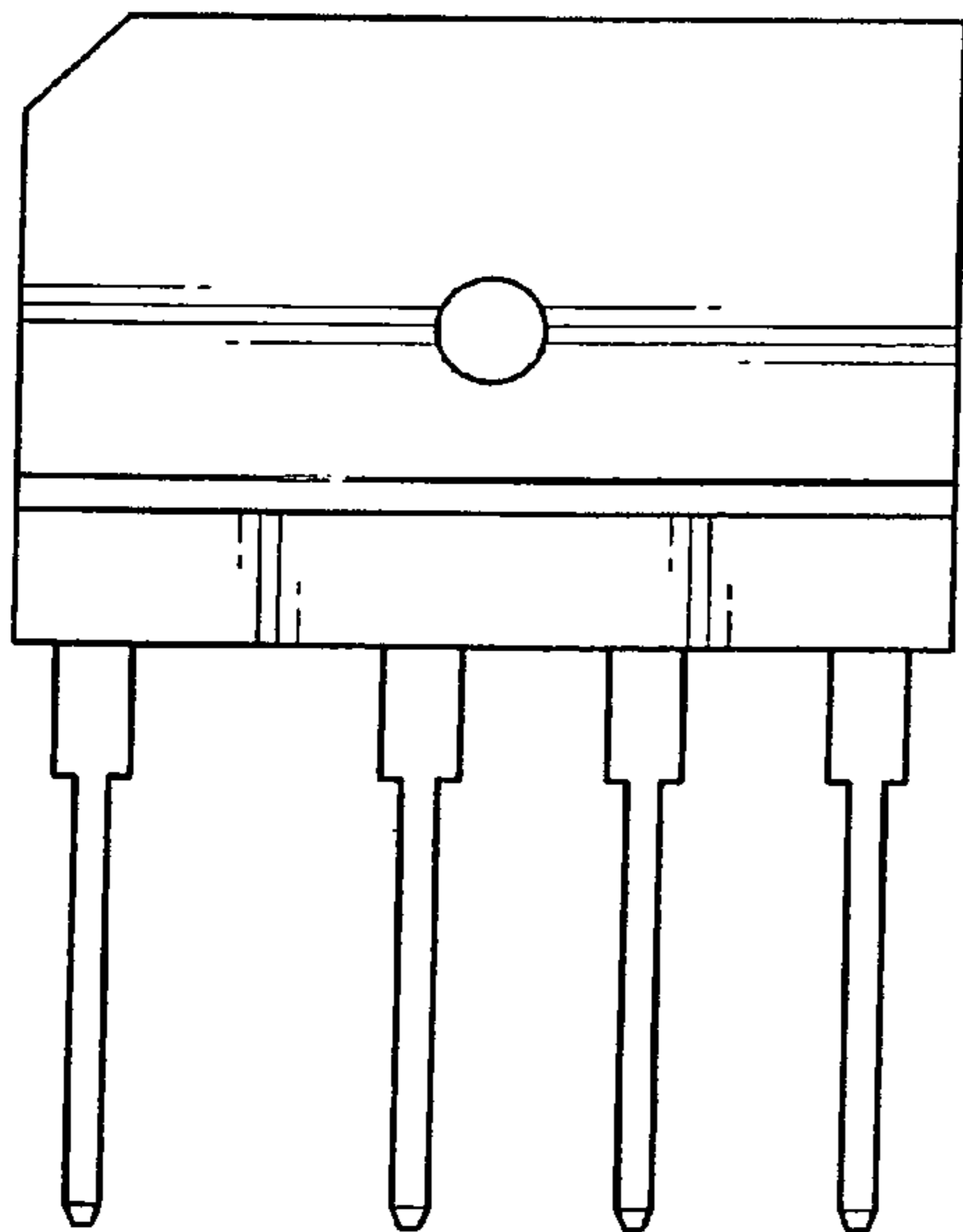
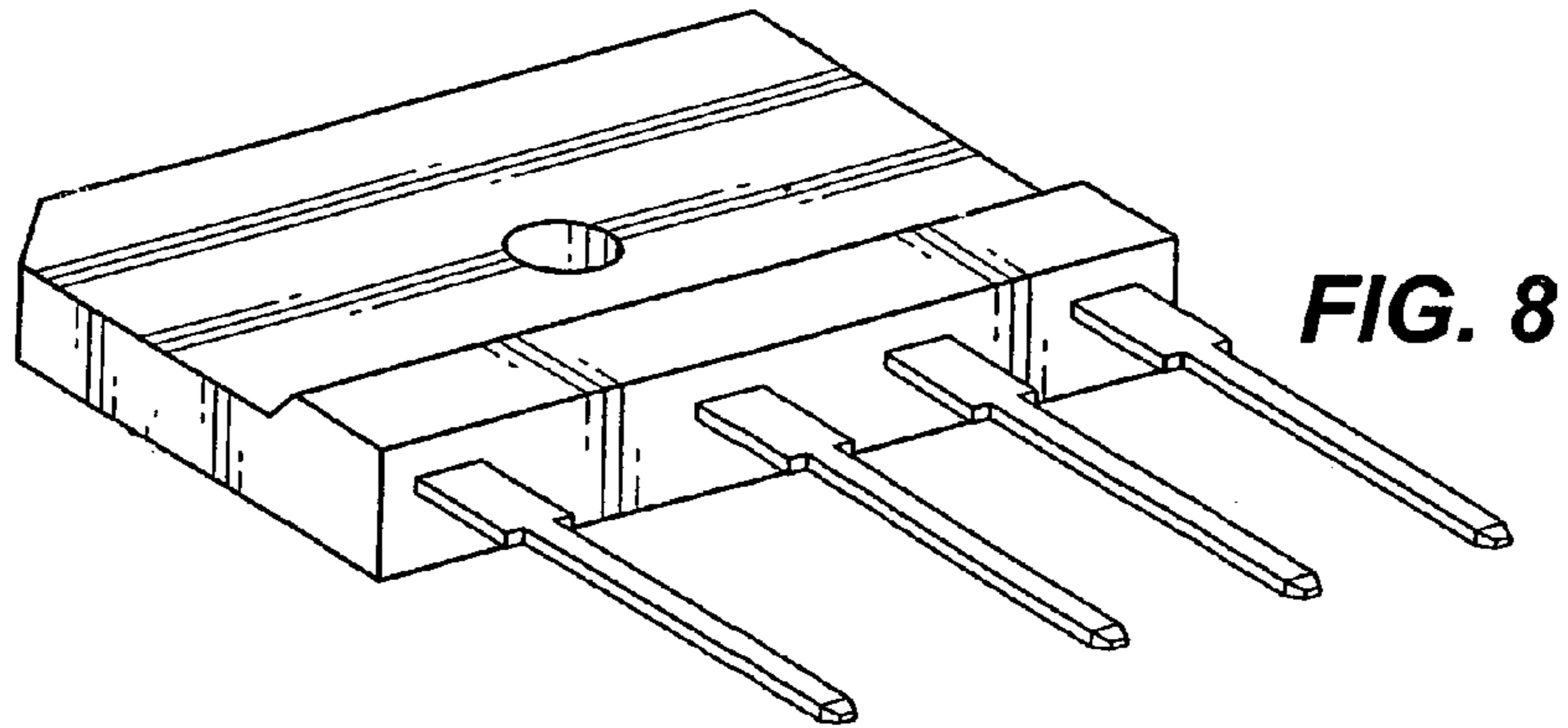


FIG. 9

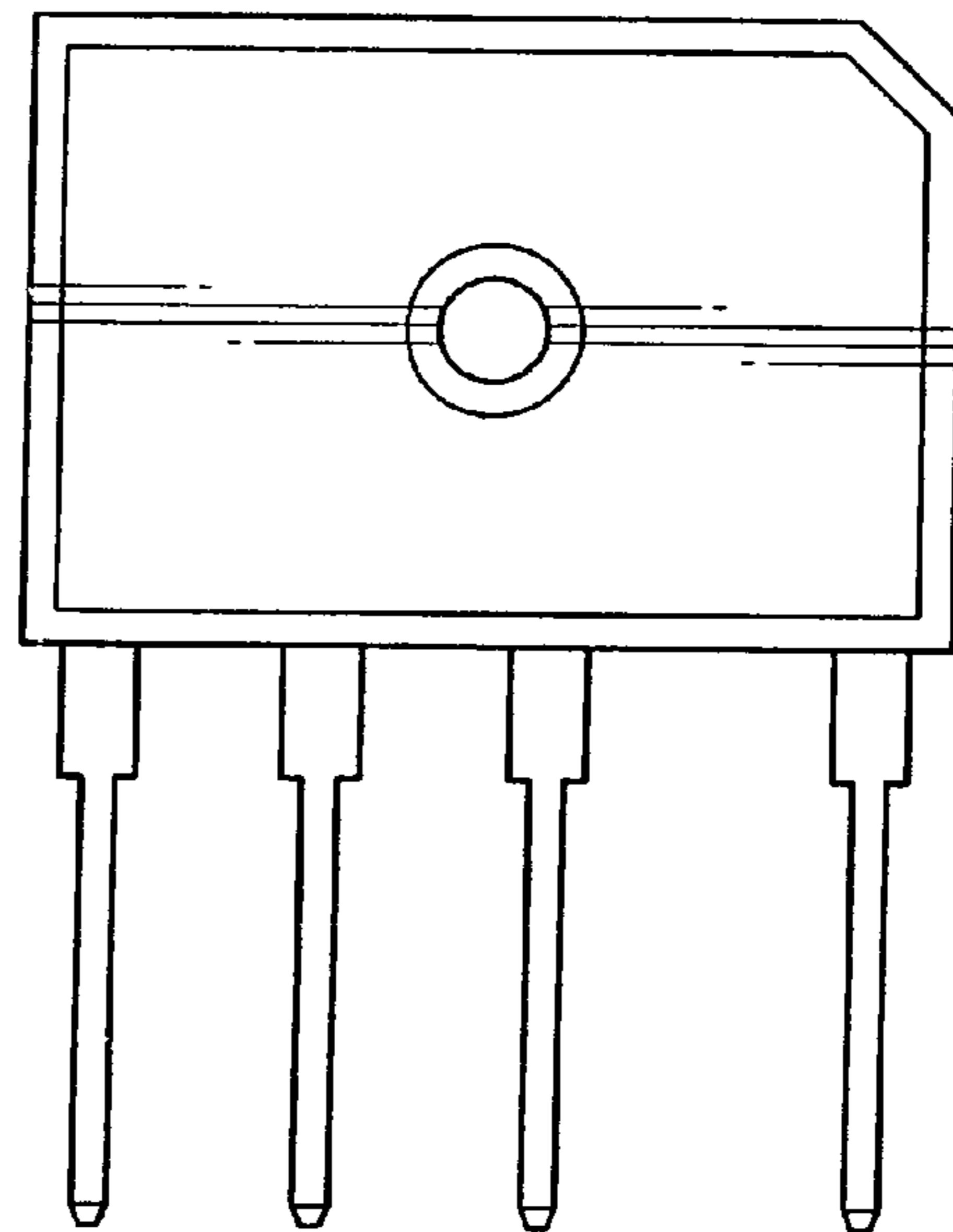


FIG. 10

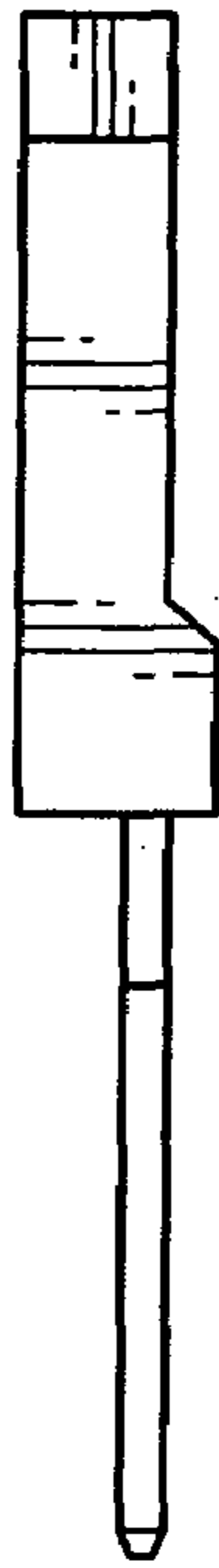


FIG. 11

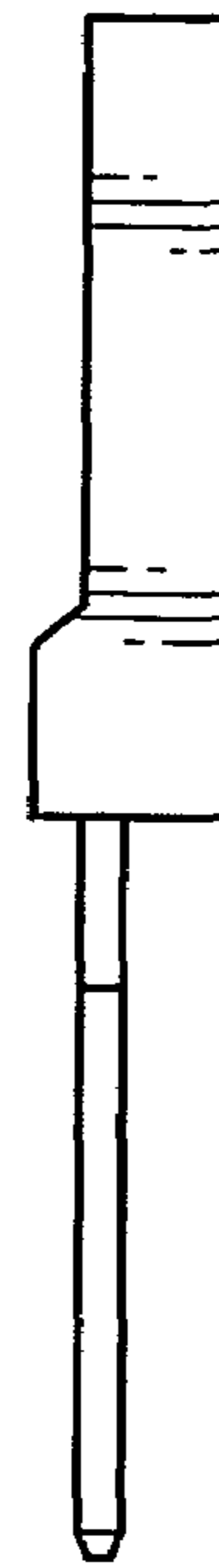


FIG. 12



FIG. 13

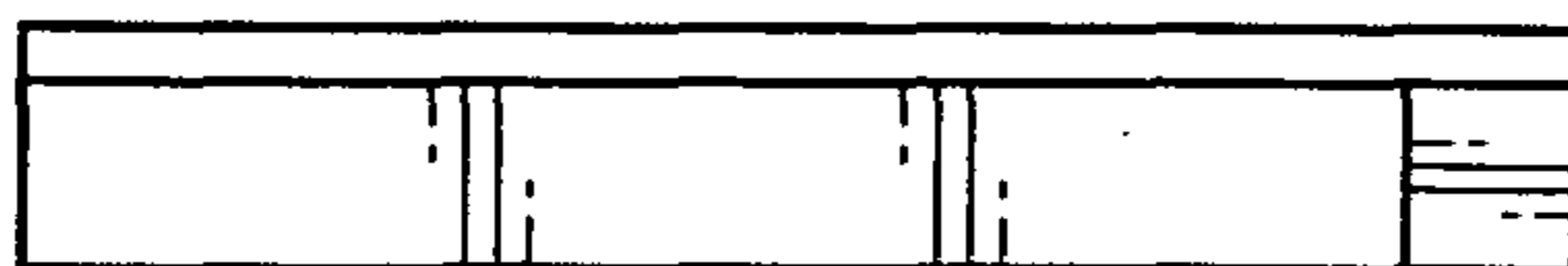


FIG. 14