



US00D350731S

United States Patent [19]

[11] Patent Number: **Des. 350,731**

Miyazawa et al.

[45] Date of Patent: **** Sep. 20, 1994**

[54] **VACUUM VALVE FOR A VACUUM CIRCUIT BREAKER**

[75] Inventors: **Takayuki Miyazawa, Tama; Junji Fujiwara, Oume; Kimiya Sato, Tokorozawa; Makoto Taniguchi, Fuchu; Satoshi Ogawa, Fuchu, all of Japan**

[73] Assignee: **Kabushiki Kaisha Toshiba, Kawasaki, Japan**

[**] Term: **14 Years**

[21] Appl. No.: **6,166**

[22] Filed: **Mar. 22, 1993**

[30] **Foreign Application Priority Data**

Sep. 22, 1992 [JP] Japan 4-27639

[52] U.S. Cl. **D13/173**

[58] Field of Search 200/144 B; 439/247, 439/536; D13/160, 173, 174

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,928,716	12/1975	Marrero	.....	439/536	X
4,403,124	9/1983	Perkins et al.	.....	200/144	B
4,839,477	6/1989	Orosz et al.	.....	200/144	B X
4,879,441	11/1989	Hamm et al.	.....	200/144	B
4,950,178	8/1990	Harvey et al.	.....	439/247	X

FOREIGN PATENT DOCUMENTS

D839988 6/1992 Japan .

OTHER PUBLICATIONS

Asea Brown Boveri Catalog of Vacuum Circuit Breaker Type VD4, Aug. 20, 1992.

Primary Examiner—Wallace R. Burke

Assistant Examiner—Joel Sincavage

Attorney, Agent, or Firm—Oblon, Spivak, McClelland, Maier & Neustadt

[57] CLAIM

The ornamental design for a vacuum valve for a vacuum circuit breaker, as shown and described.

DESCRIPTION

FIG. 1 is a front, top and right side perspective view of a vacuum valve for a vacuum circuit breaker, showing our new design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a top plan view thereof;

FIG. 4 is a bottom plan view thereof;

FIG. 5 is a left side elevational view thereof;

FIG. 6 is a right side elevational view thereof;

FIG. 7 is a rear elevational view thereof; and,

FIG. 8 is a cross-sectional view taken along line 8—8 in FIG. 2 with its internal mechanisms omitted.

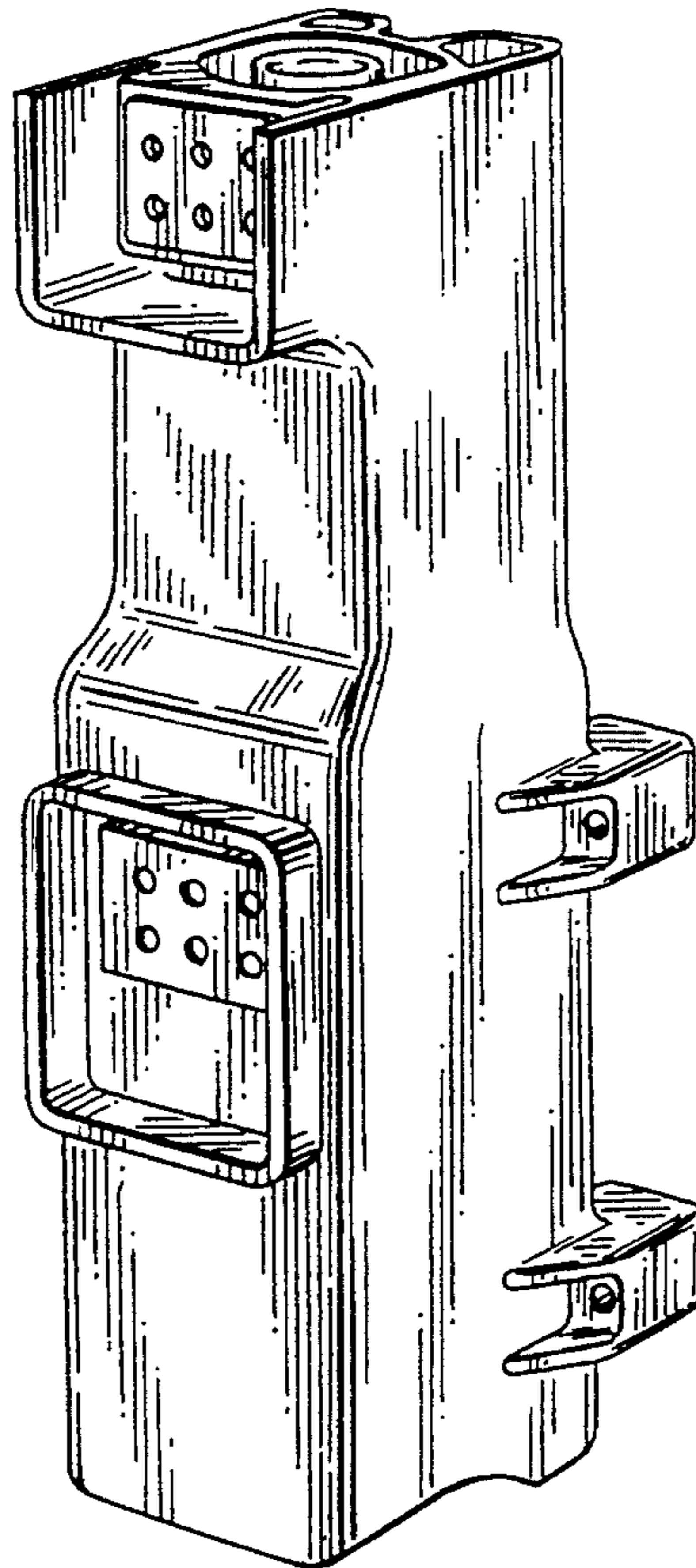


FIG. 1

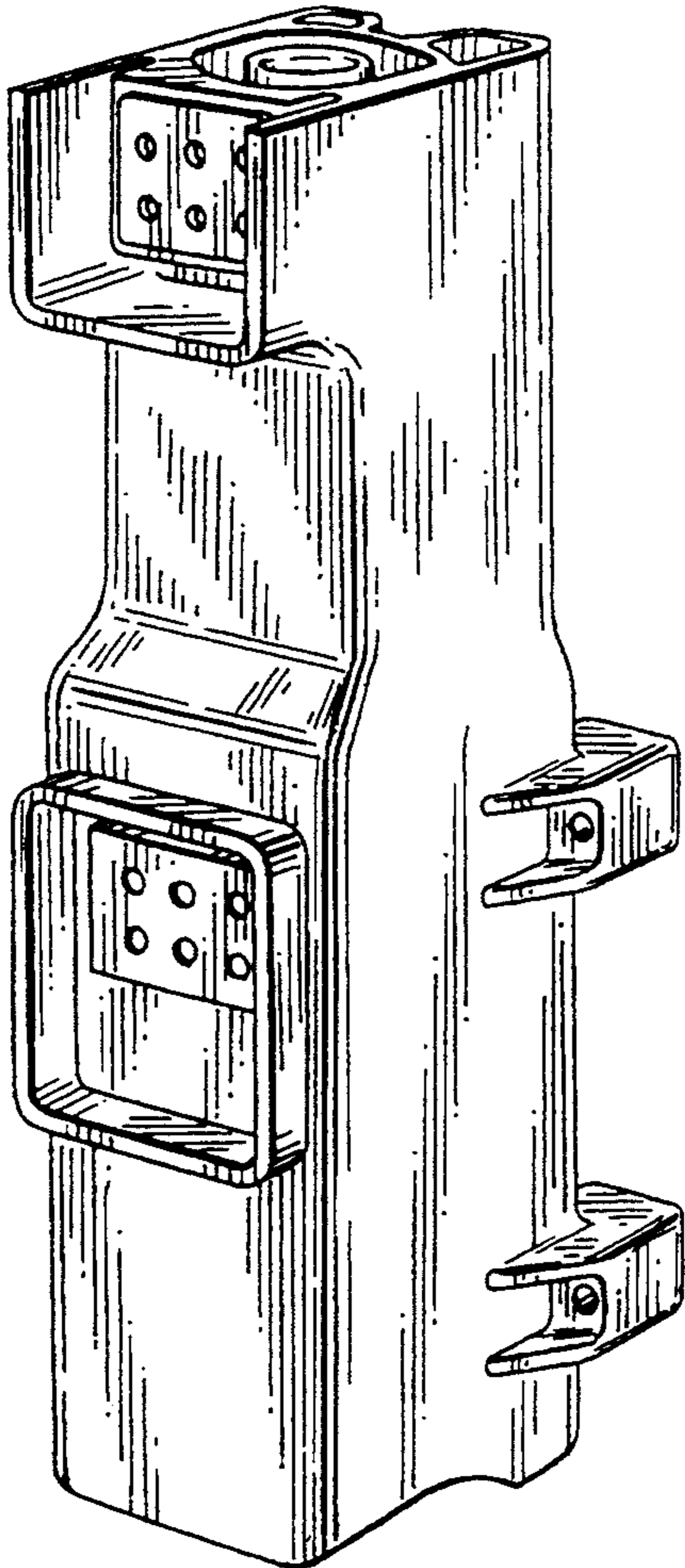


FIG. 2

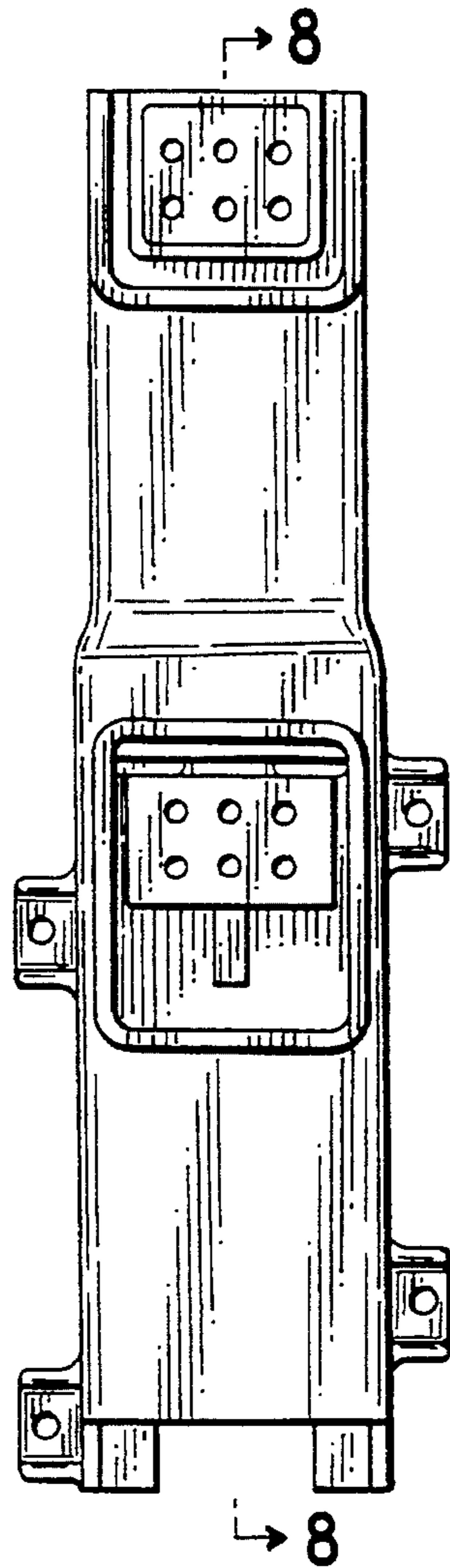


FIG. 4

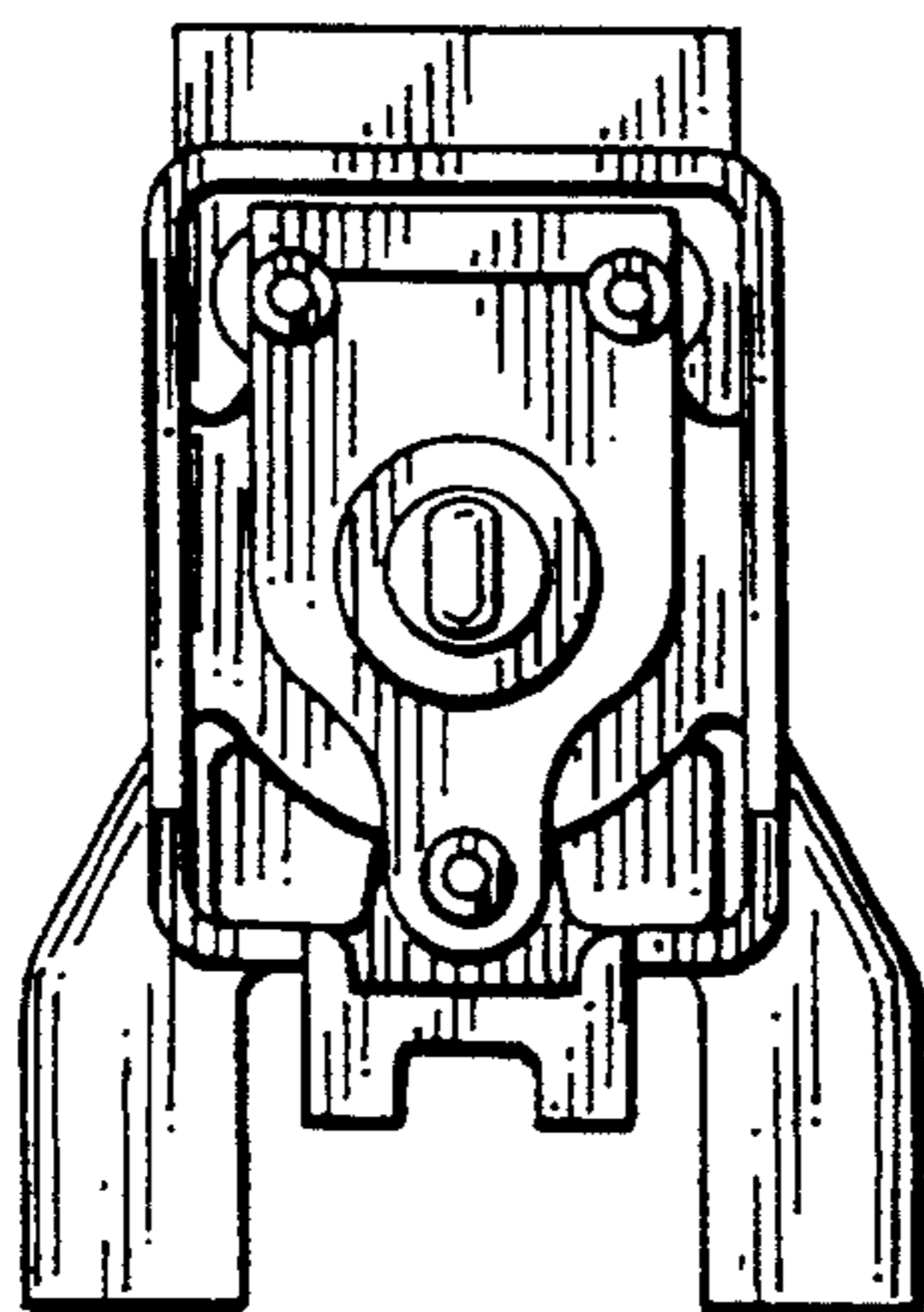


FIG. 3

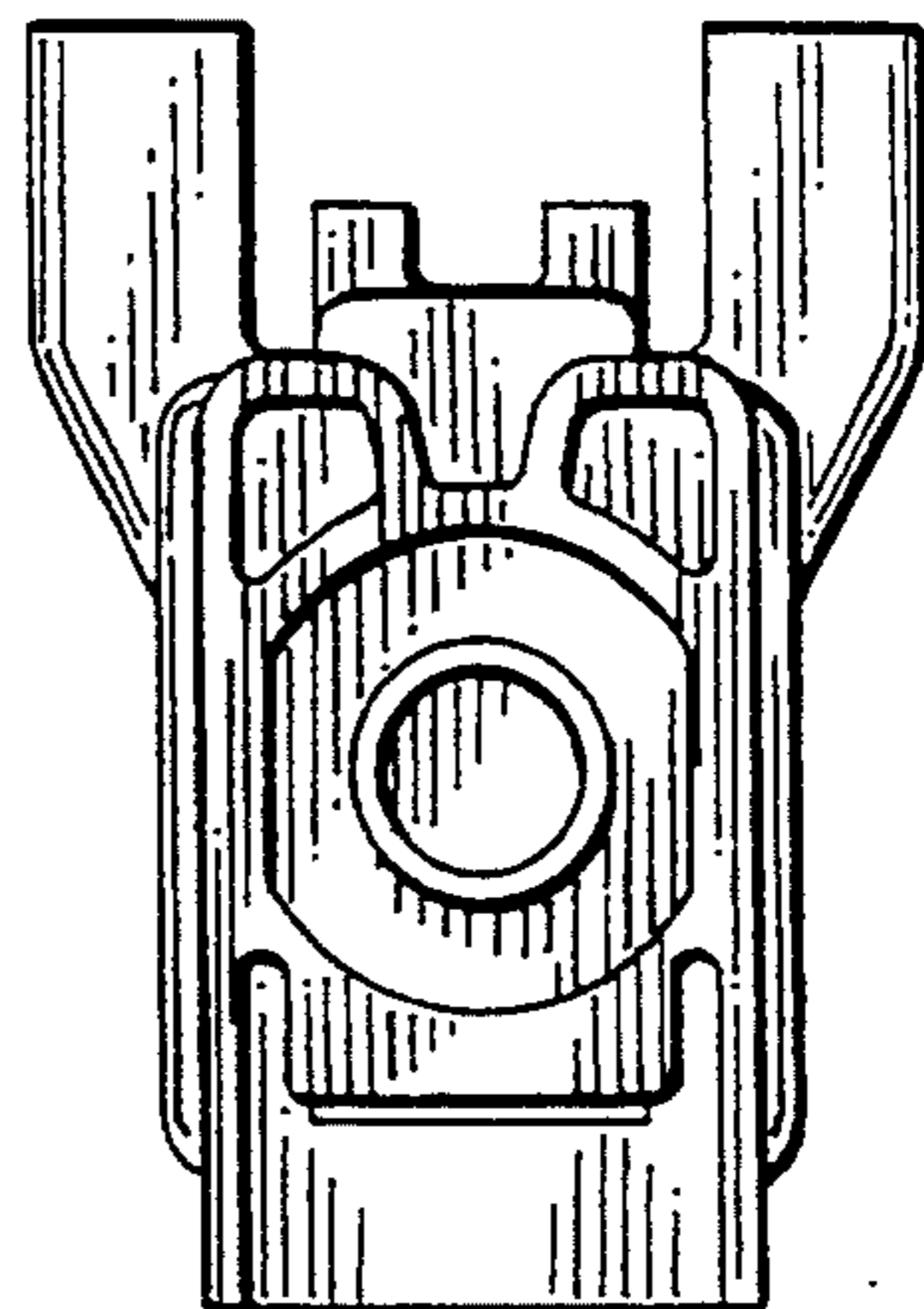


FIG. 5

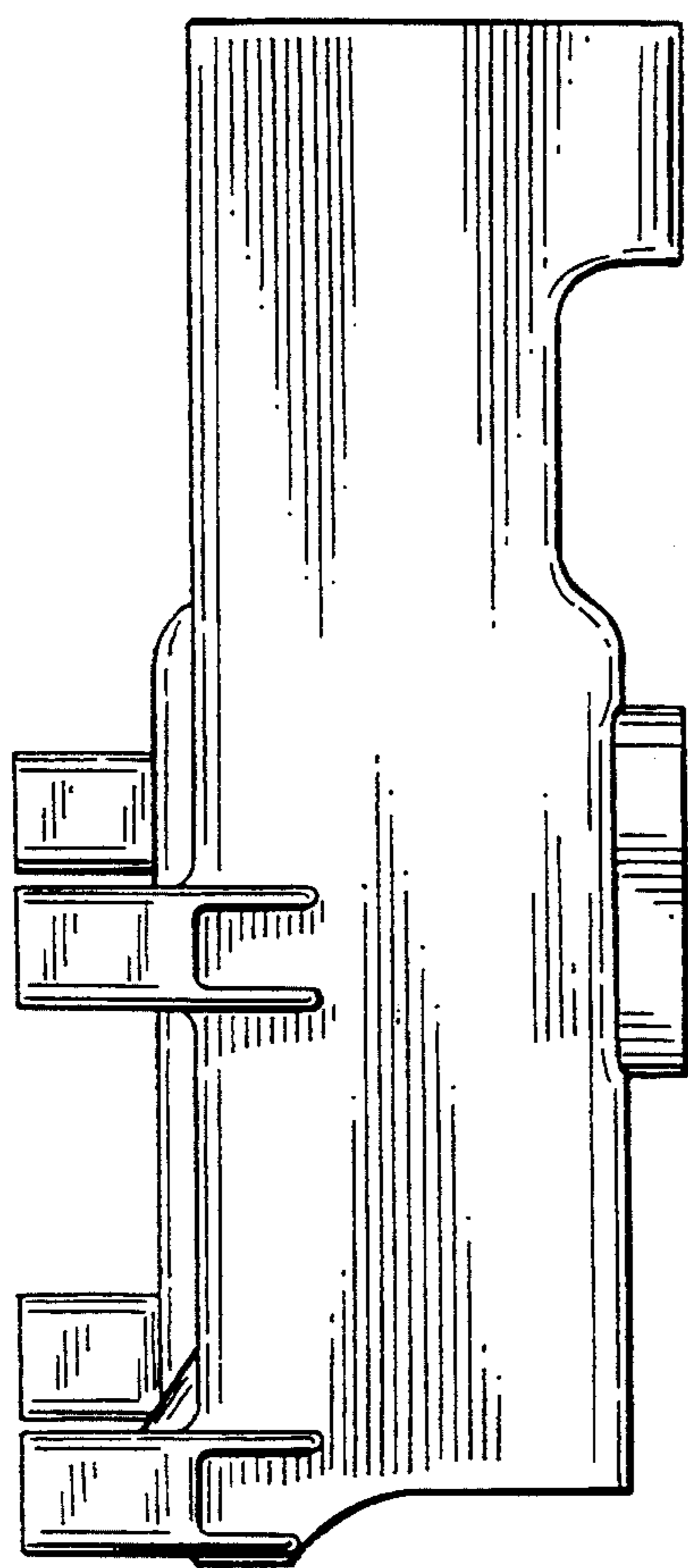


FIG. 6

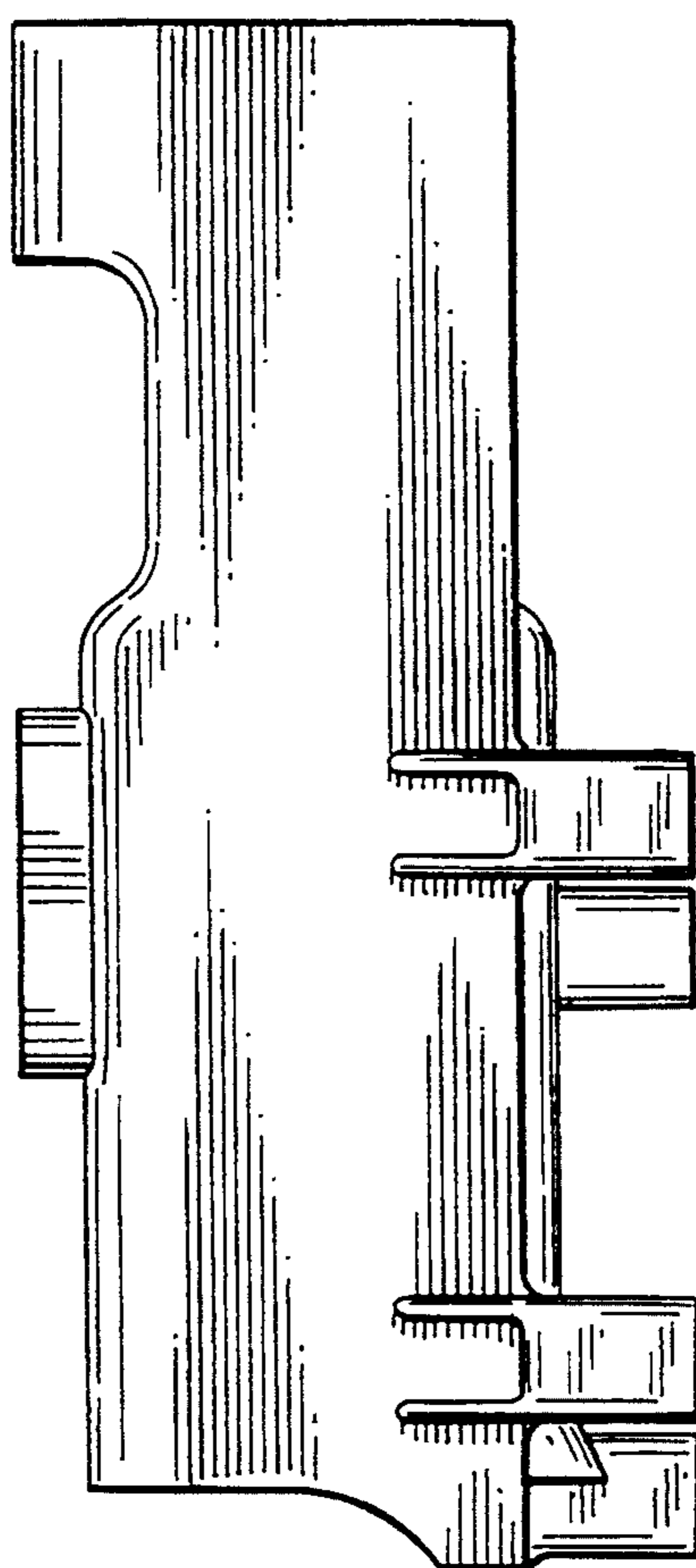


FIG. 7

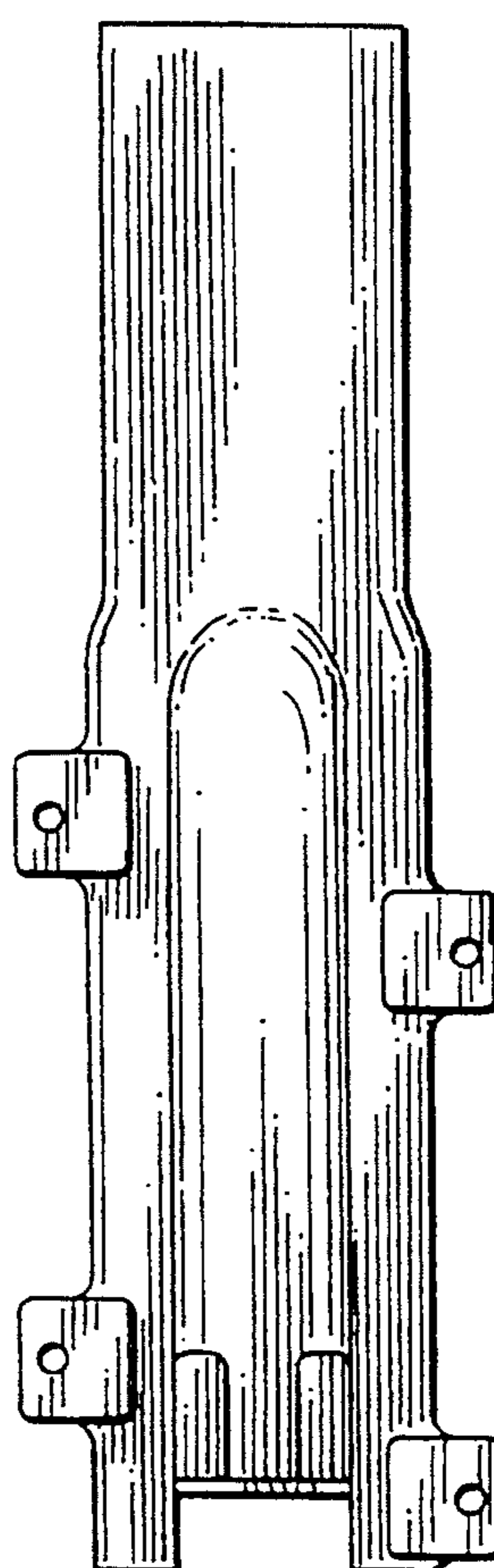


FIG. 8

