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

(10) **Patent No.: US D448,081 S**

(45) **Date of Patent: ** Sep. 18, 2001**

(54) **RETRACTOR FOR HEART VALVE SURGERY**

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6,074,343 * 6/2000 Nathanson et al. 600/214

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* cited by examiner

Primary Examiner—Ian Simmons

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

(57) **CLAIM**

The ornamental design for a retractor for heart valve surgery,
substantially as shown and described.

(21) Appl. No.: **29/141,326**

(22) Filed: **May 4, 2001**

DESCRIPTION

(51) **LOC (7) Cl.** **24-02**

(52) **U.S. Cl.** **D24/135**

(58) **Field of Search** D24/135; 600/224,
600/214, 201, 219, 235, 216, 215

FIG. 1 is a front isometric view of a retractor for heart valve surgery showing our new design, with the blades in an open position.

FIG. 2 is a front elevational view thereof.

FIG. 3 is a right side elevational view thereof.

FIG. 4 is a rear elevational view thereof.

FIG. 5 is a top plan view thereof.

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

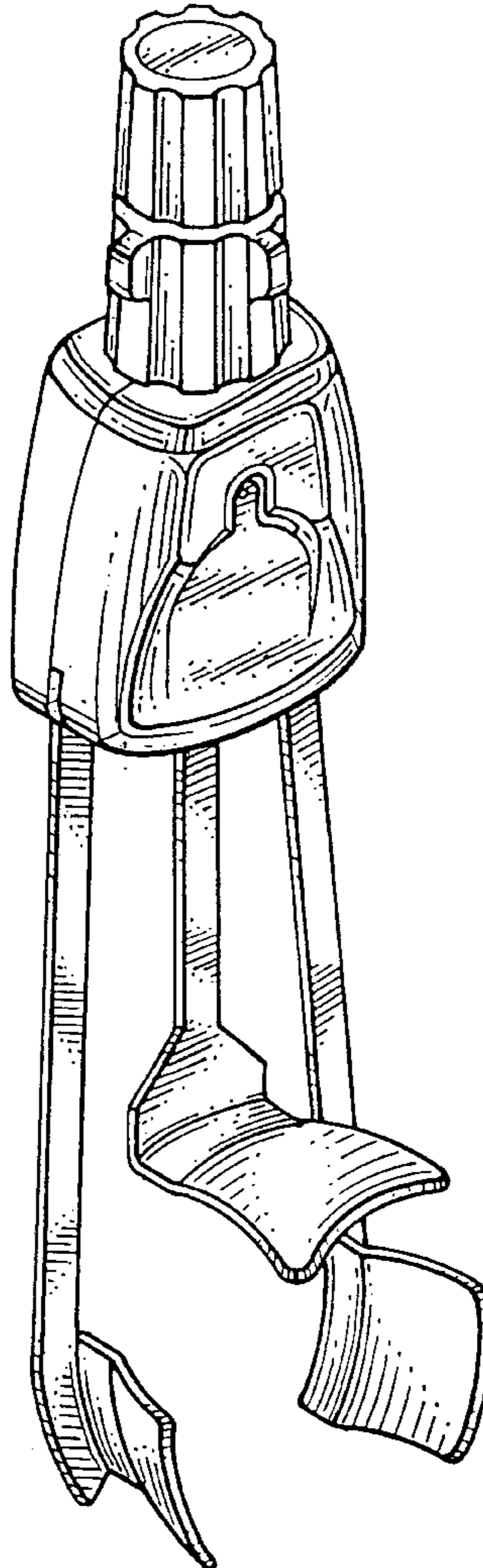
FIG. 7 is a front isometric view thereof, with the blades in closed position.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D. 422,705 * 4/2000 Koros et al. D24/135
- D. 430,294 * 8/2000 Nathanson et al. D24/135
- D. 443,359 * 6/2001 Nathanson et al. D24/135
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1 Claim, 3 Drawing Sheets



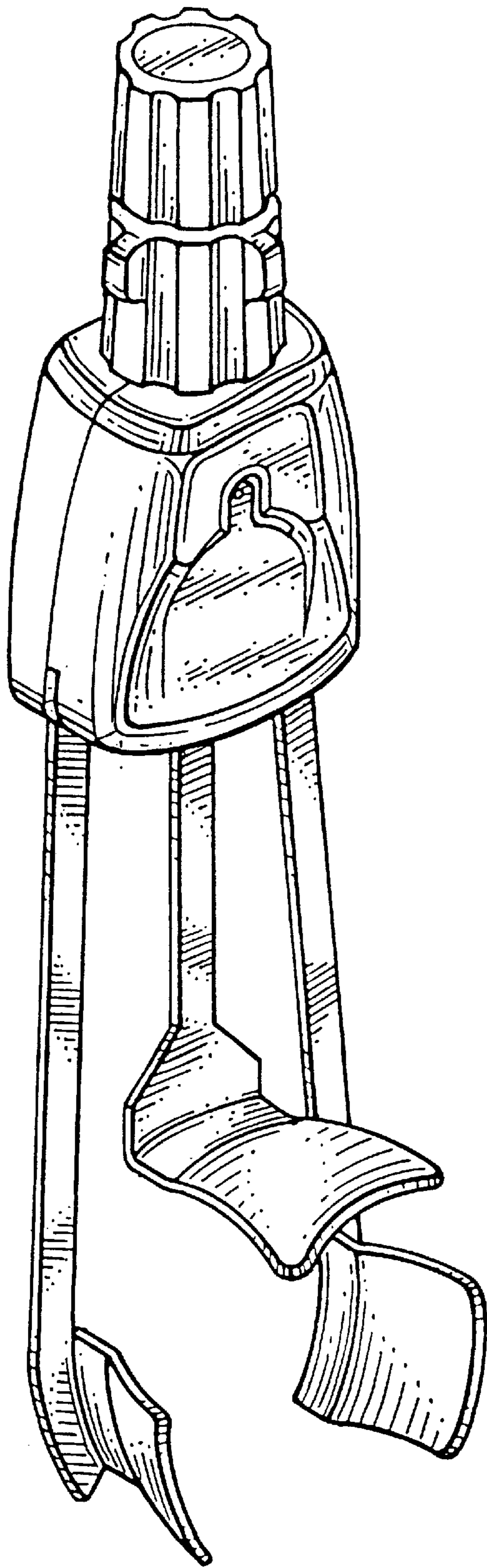


Fig. 1.

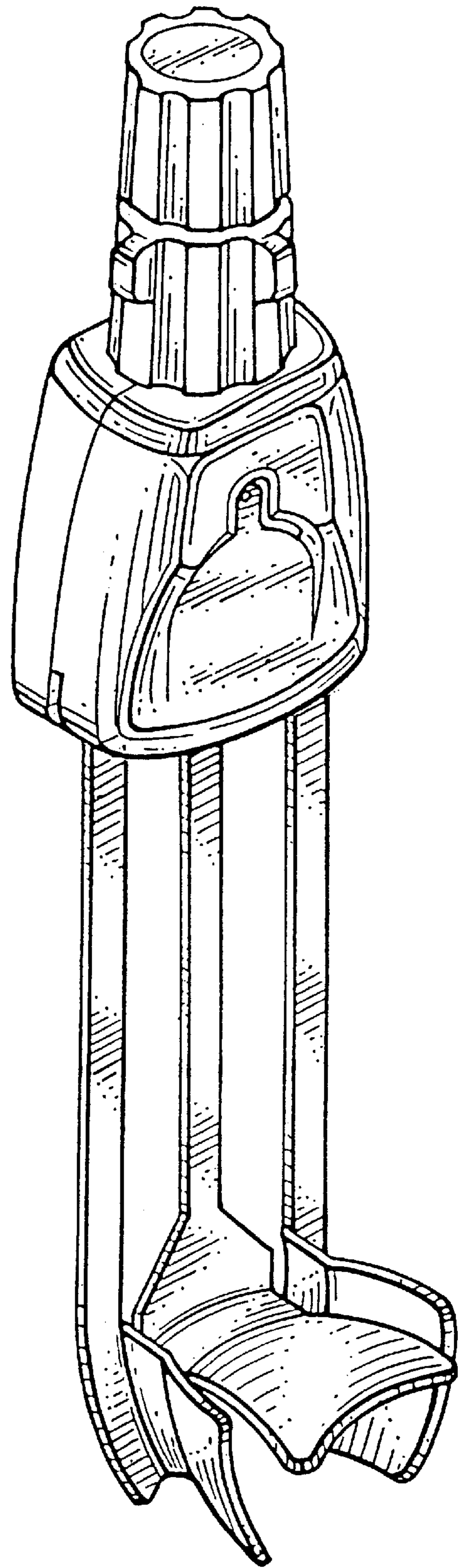


Fig. 7.

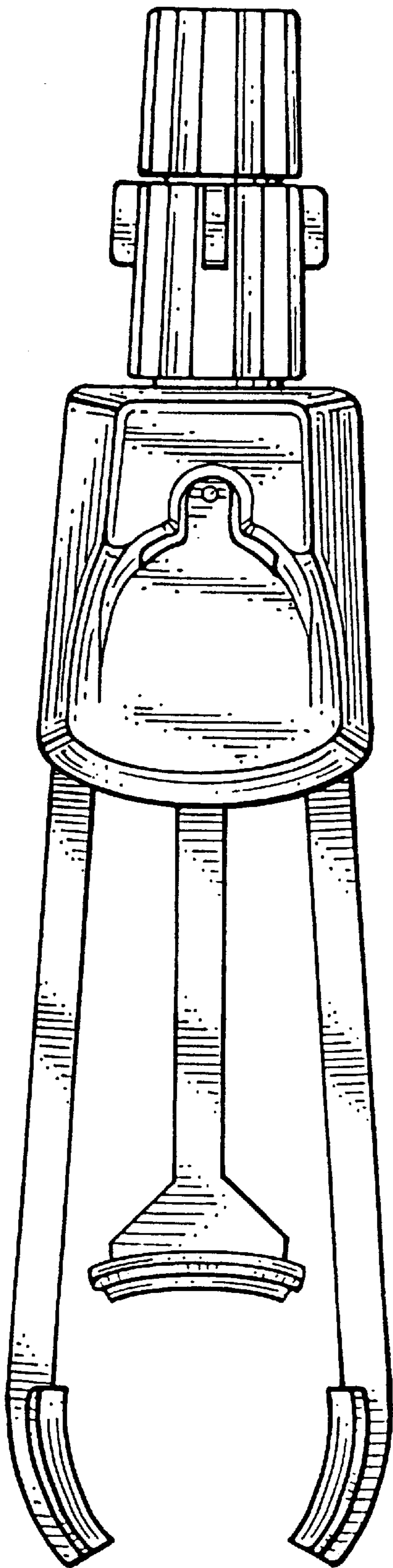


Fig. 2.

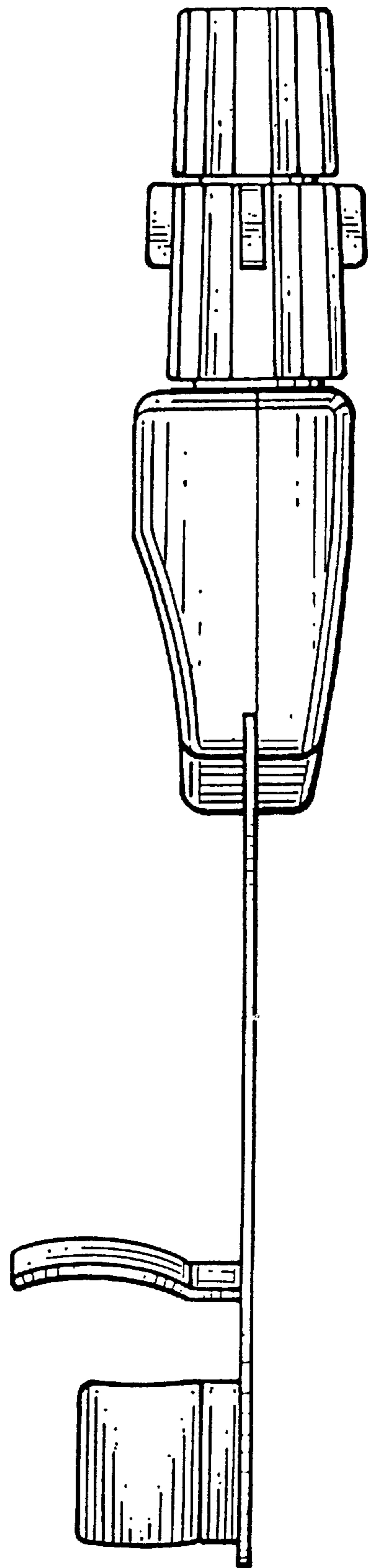


Fig. 3.

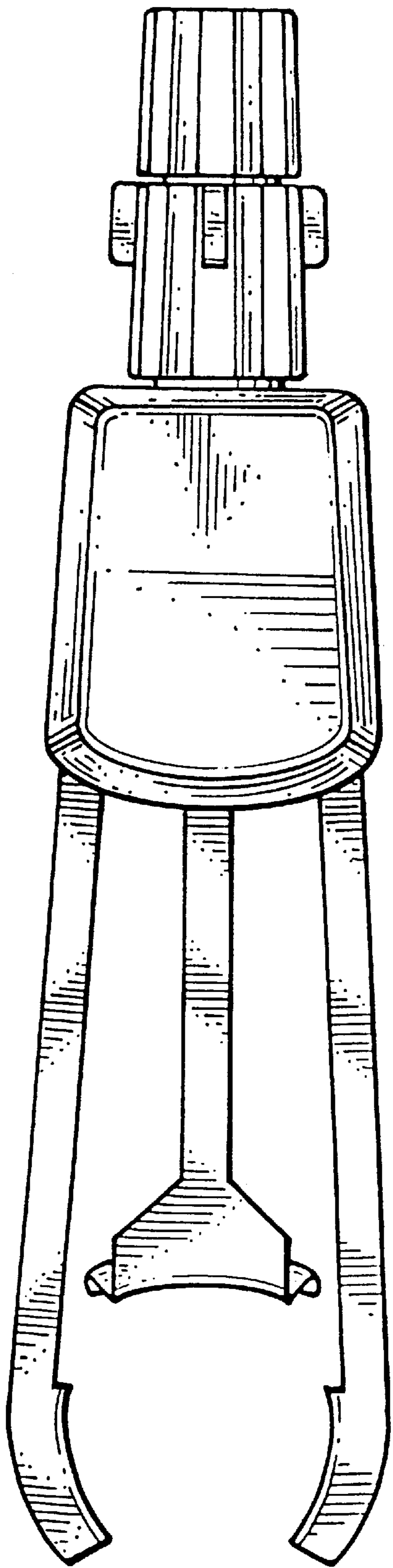


Fig. 4.

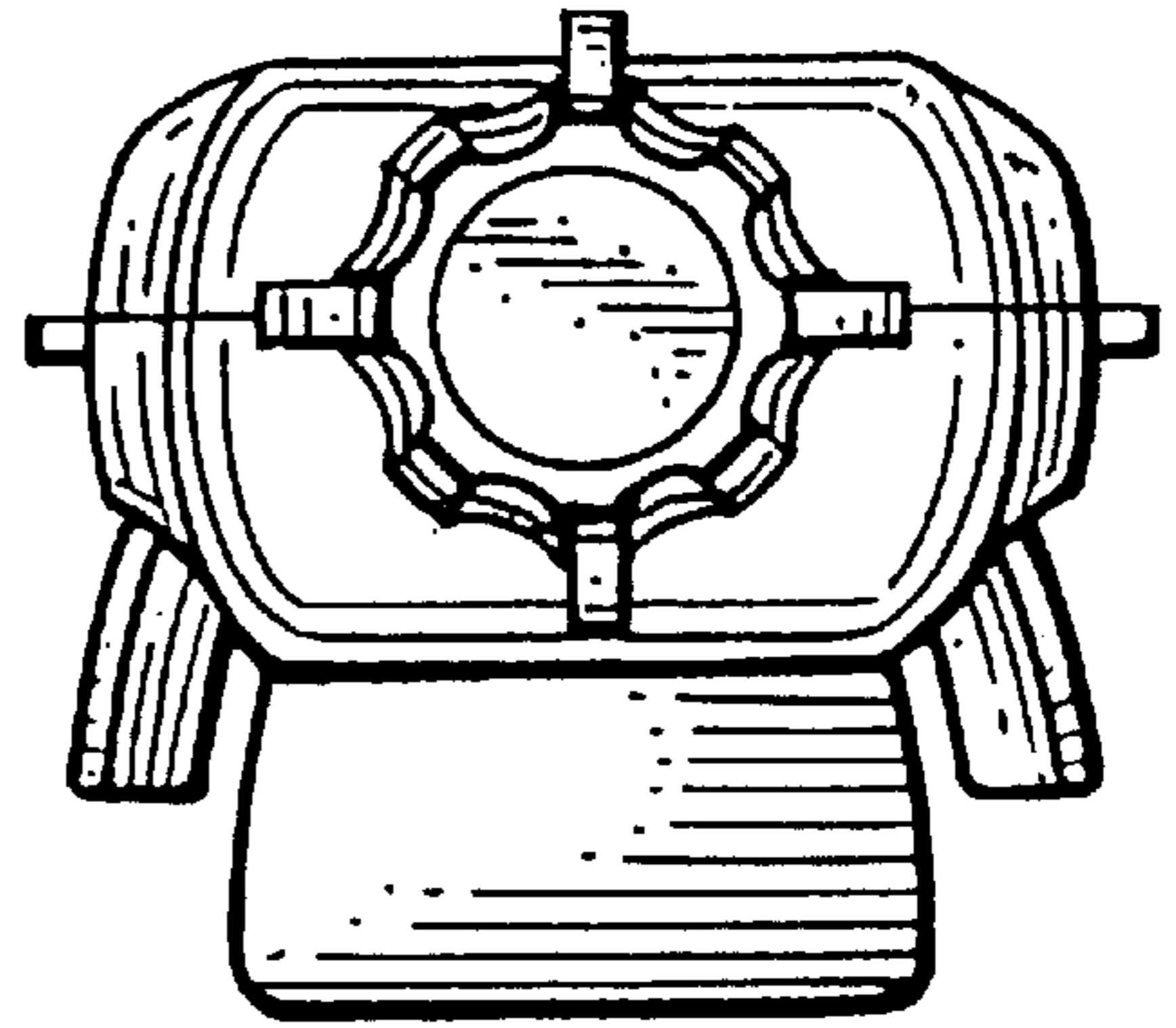


Fig. 5.

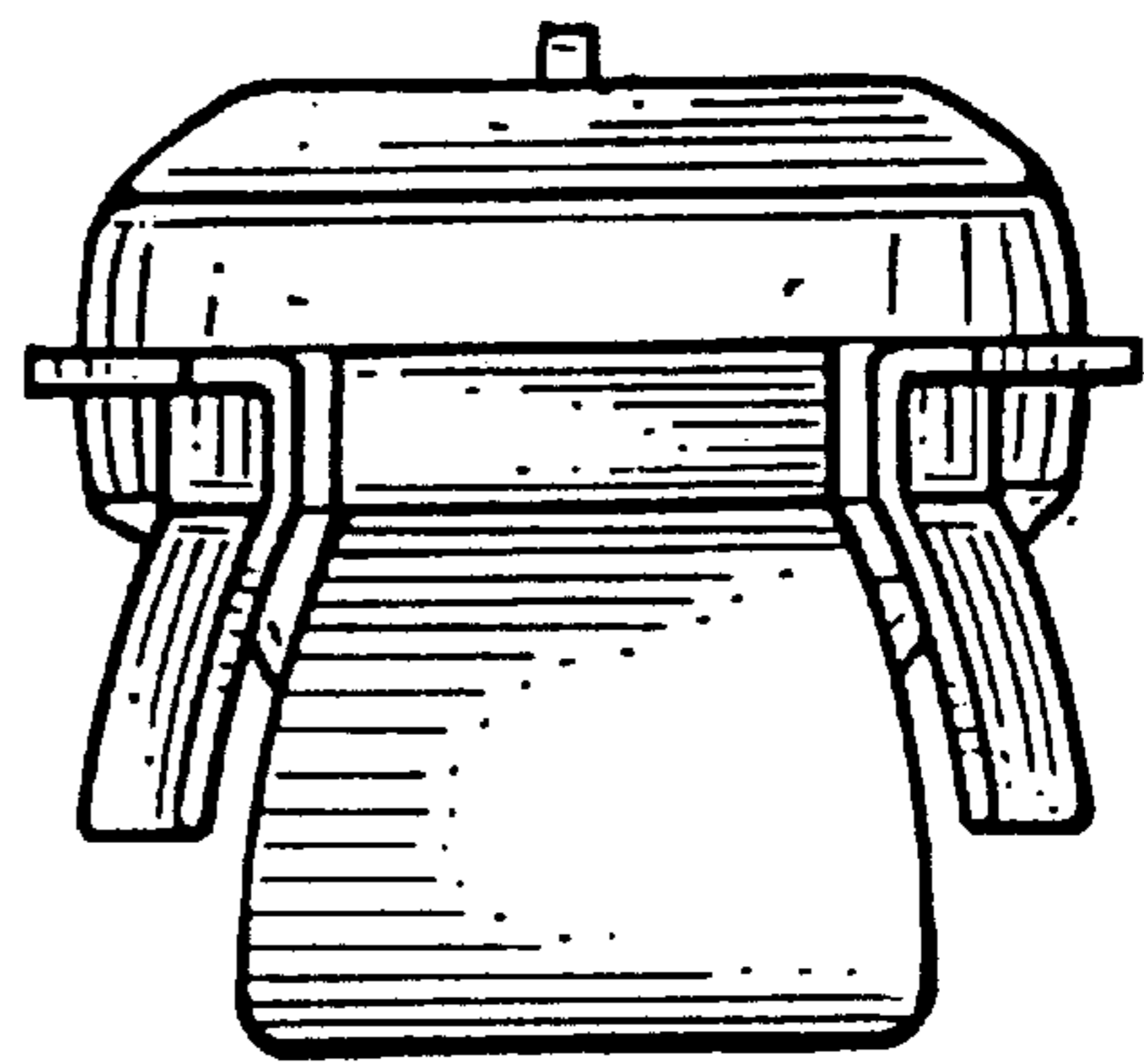


Fig. 6.