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United States Patent [19]

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Bair et al.

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[54] **APPARATUS FOR LINEARLY DISPLACING A ROTATABLE SPINDLE**

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[57] **CLAIM**

The ornamental design for an apparatus for linearly displacing a rotatable spindle, as shown and described.

[73] Assignee: **Delta International Machinery Corp.**, Pittsburgh, Pa.

DESCRIPTION

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

FIG. 1 is a perspective view of an apparatus for linearly displacing a rotatable spindle, showing our new design;

[21] Appl. No.: **27,191**

FIG. 2 is a front elevational view of the apparatus for linearly displacing a rotatable spindle of FIG. 1;

[22] Filed: **Aug. 19, 1994**

[52] U.S. Cl. **D15/125**

[58] Field of Search D15/137, 140, D15/125; 279/20, 24, 79, 91, 103; 488/59, 141, 239 R, 88, 98, 709; 451/155, 34

FIG. 3 is a rear elevational view of the apparatus for linearly displacing a rotatable spindle of FIG. 1;

FIG. 4 is a left side elevational view of the apparatus for linearly displacing a rotatable spindle of FIG. 1;

[56] **References Cited**

U.S. PATENT DOCUMENTS

2,519,542	8/1950	Carey et al.	451/155
3,247,622	4/1966	Hackman, Jr.	451/155 X
4,553,920	11/1985	Biadigo et al.	451/155 X
4,555,229	11/1985	Biadigo et al.	451/155 X
4,557,640	12/1985	Rottler	451/155 X

FIG. 5 is a right side elevational view of the apparatus for linearly displacing a rotatable spindle of FIG. 1;

FIG. 6 is a top view of the apparatus for linearly displacing a rotatable spindle of FIG. 1; and,

FIG. 7 is a bottom view of the apparatus for linearly displacing a rotatable spindle of FIG. 1.

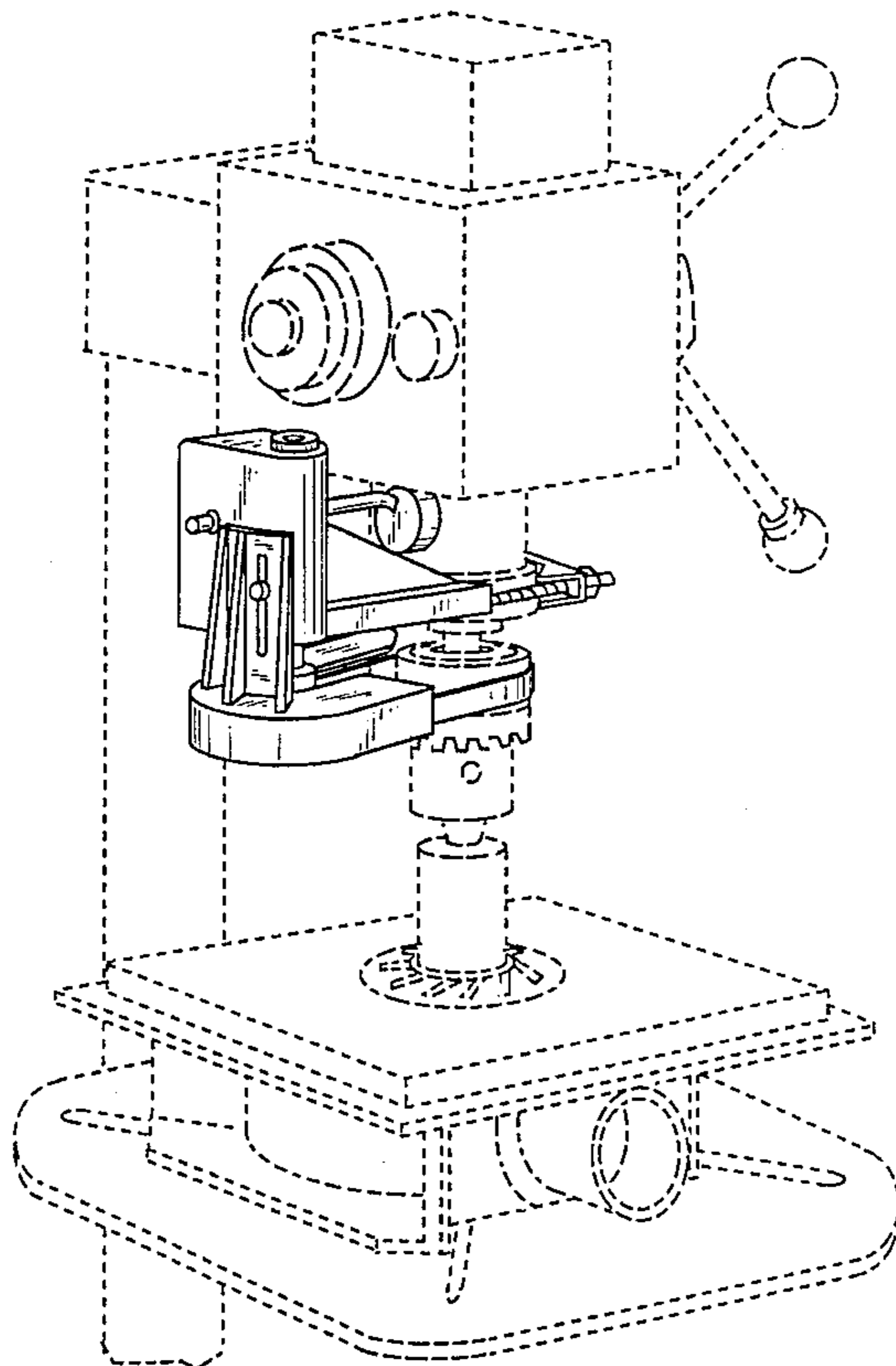
OTHER PUBLICATIONS

“Oscillating Spindle Sanders”, *Fine Woodworking*, Sep./Oct. 1994, pp. 52–56.

“Buyer’s Guide to Oscillating Spindle Sanders”, *American Woodworker*, Oct. 1994, pp. 40–43.

The broken line showing of a drill press is for illustrative purposes only and forms no part of the claimed design.

1 Claim, 4 Drawing Sheets



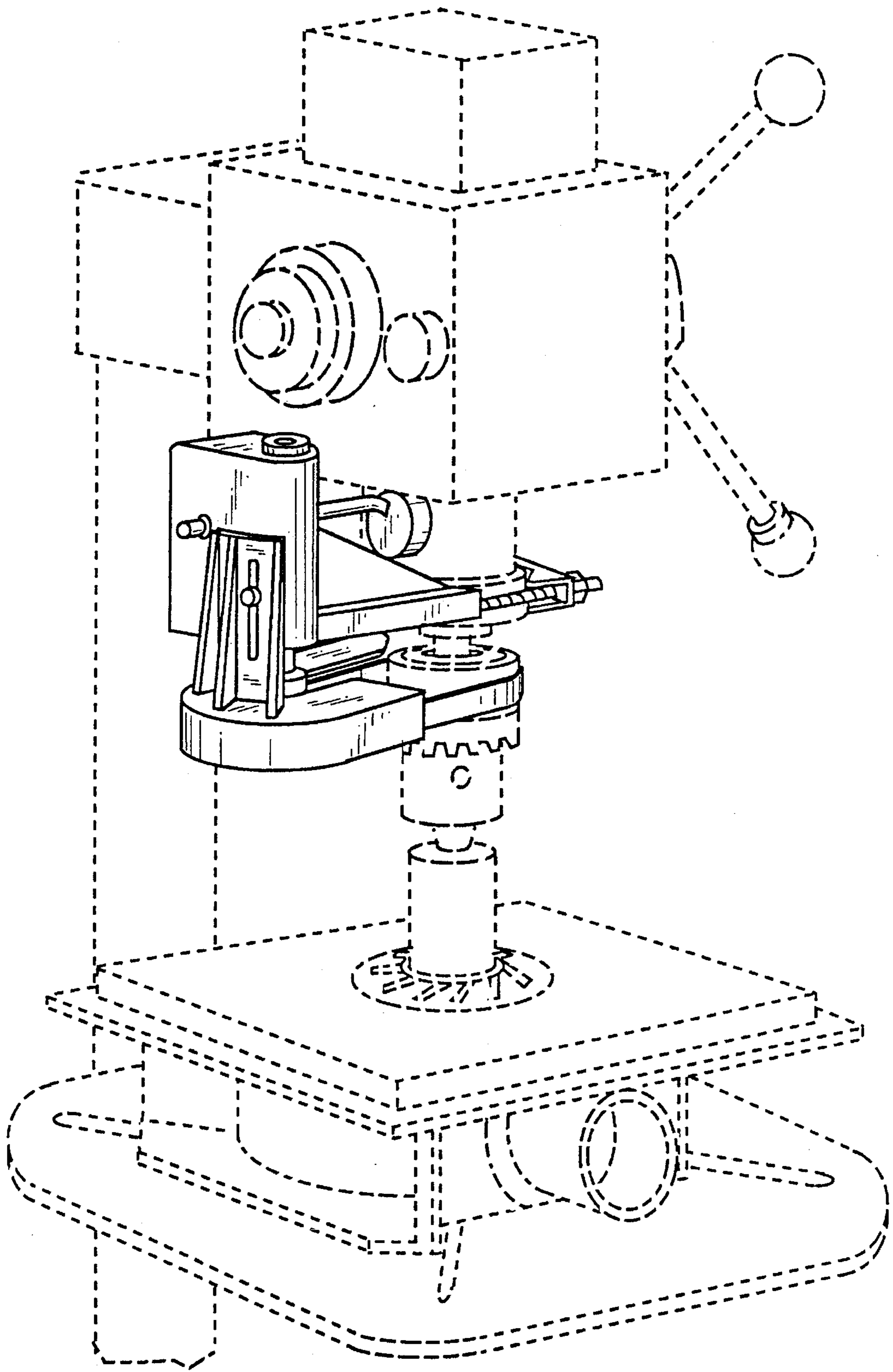


FIG. 1

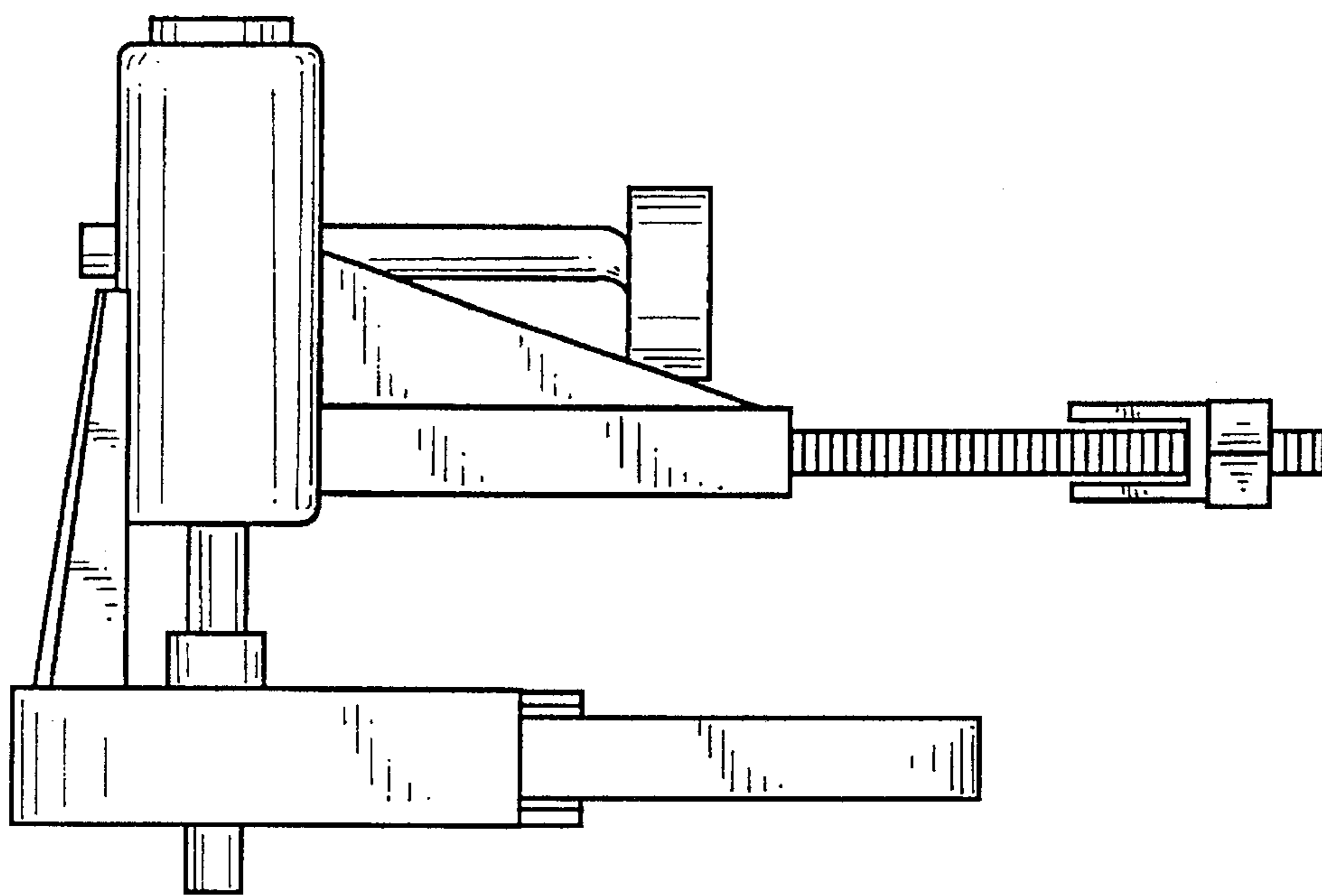


FIG. 2

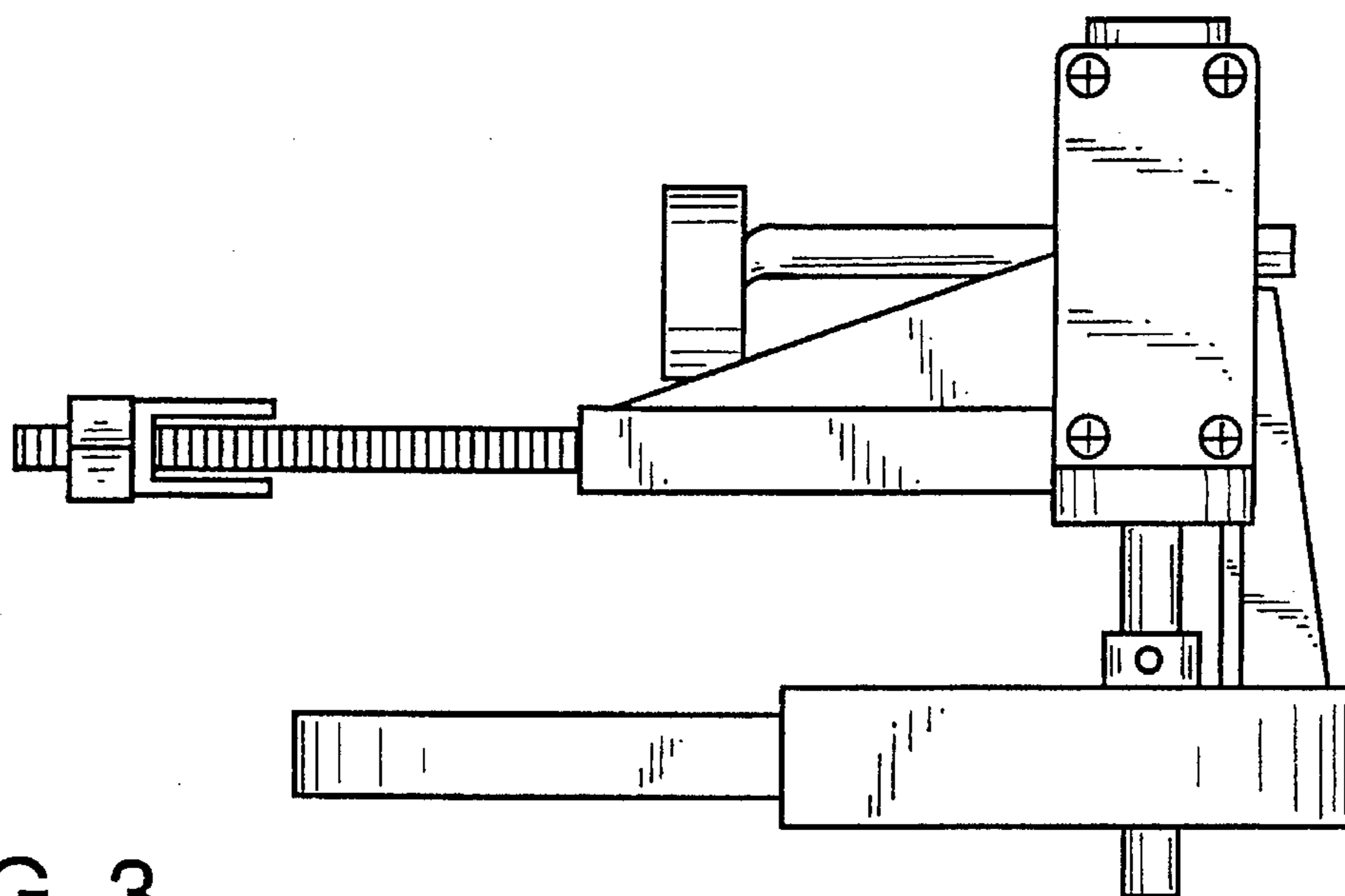


FIG. 3

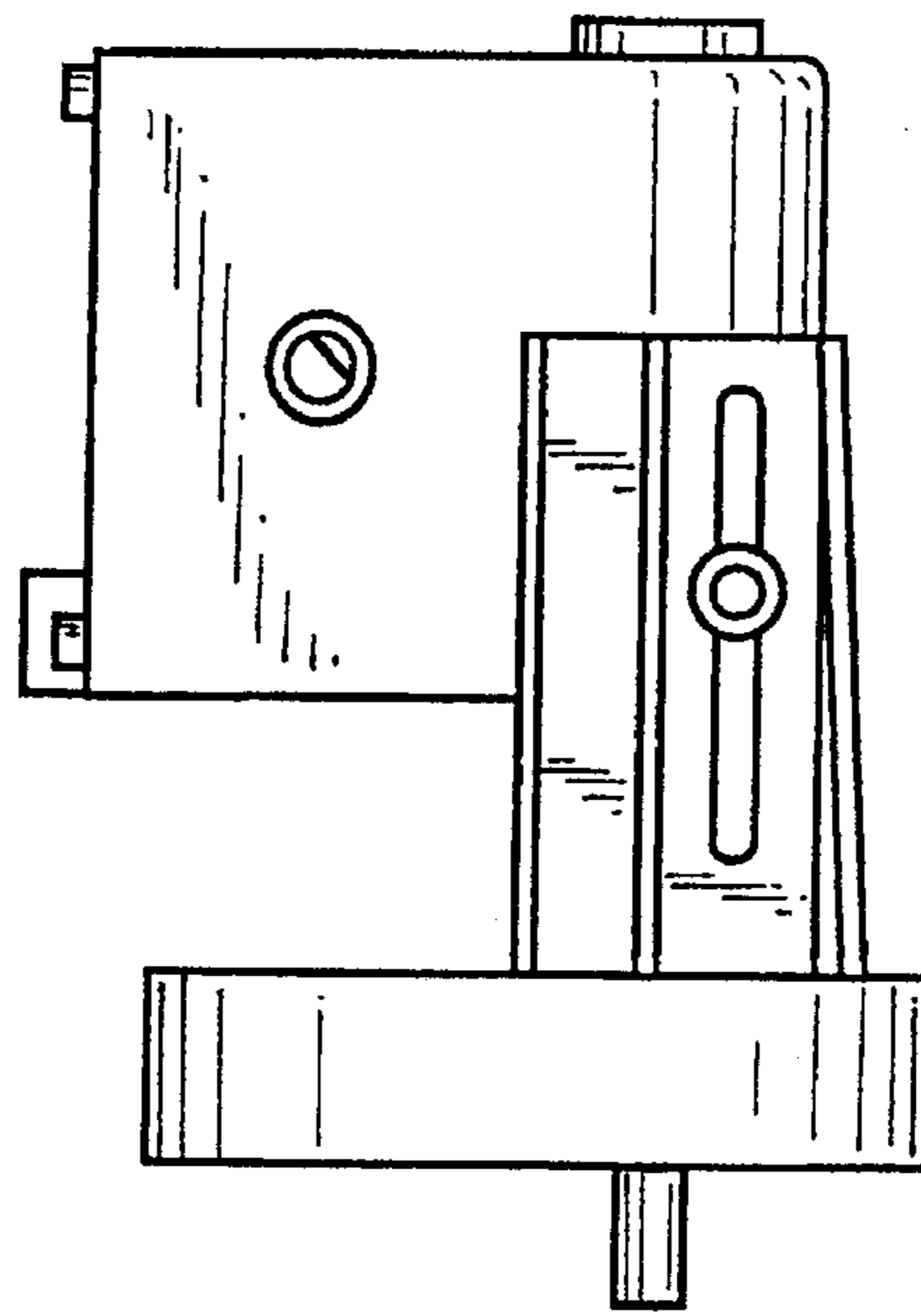


FIG. 4

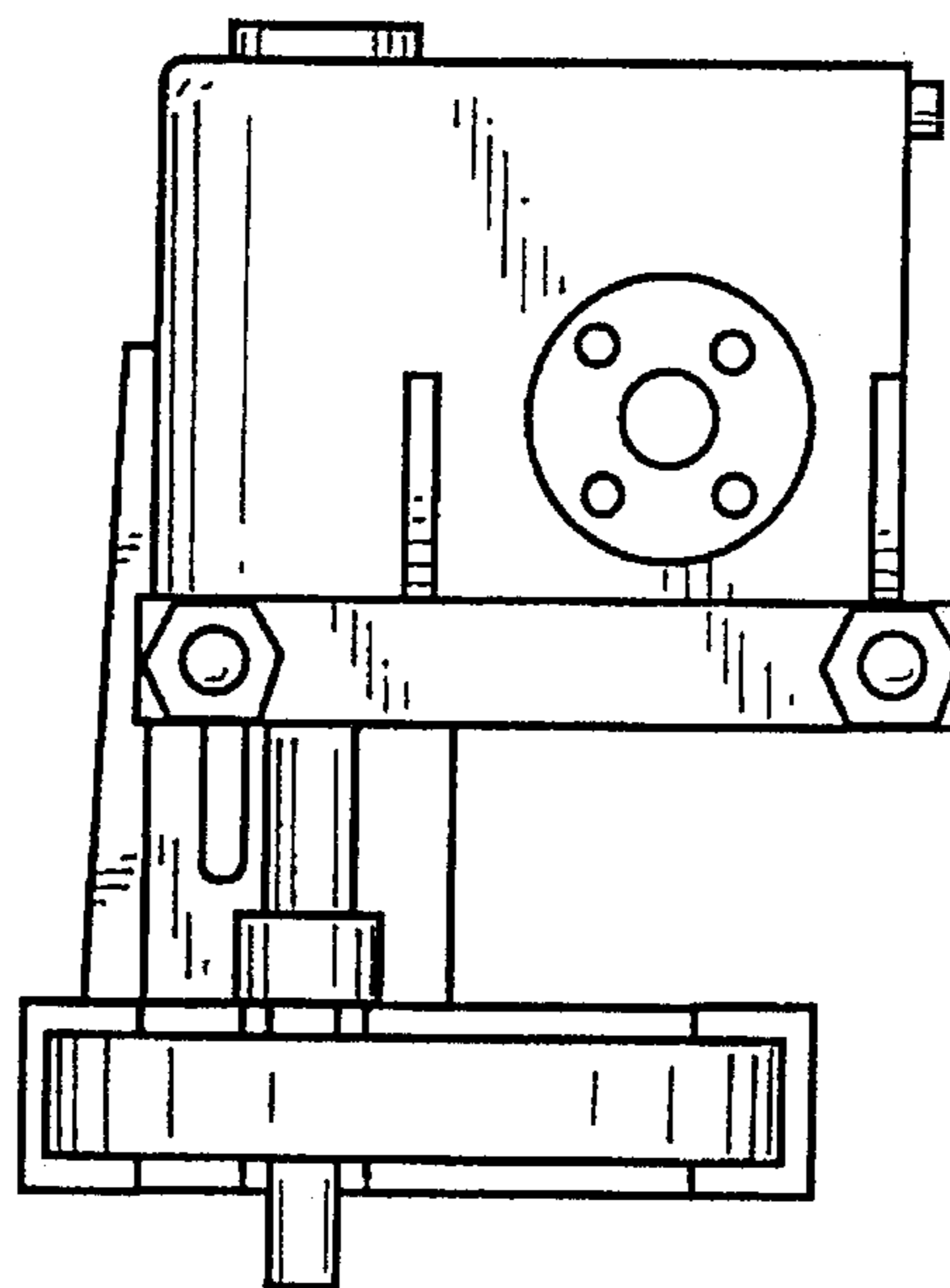


FIG. 5

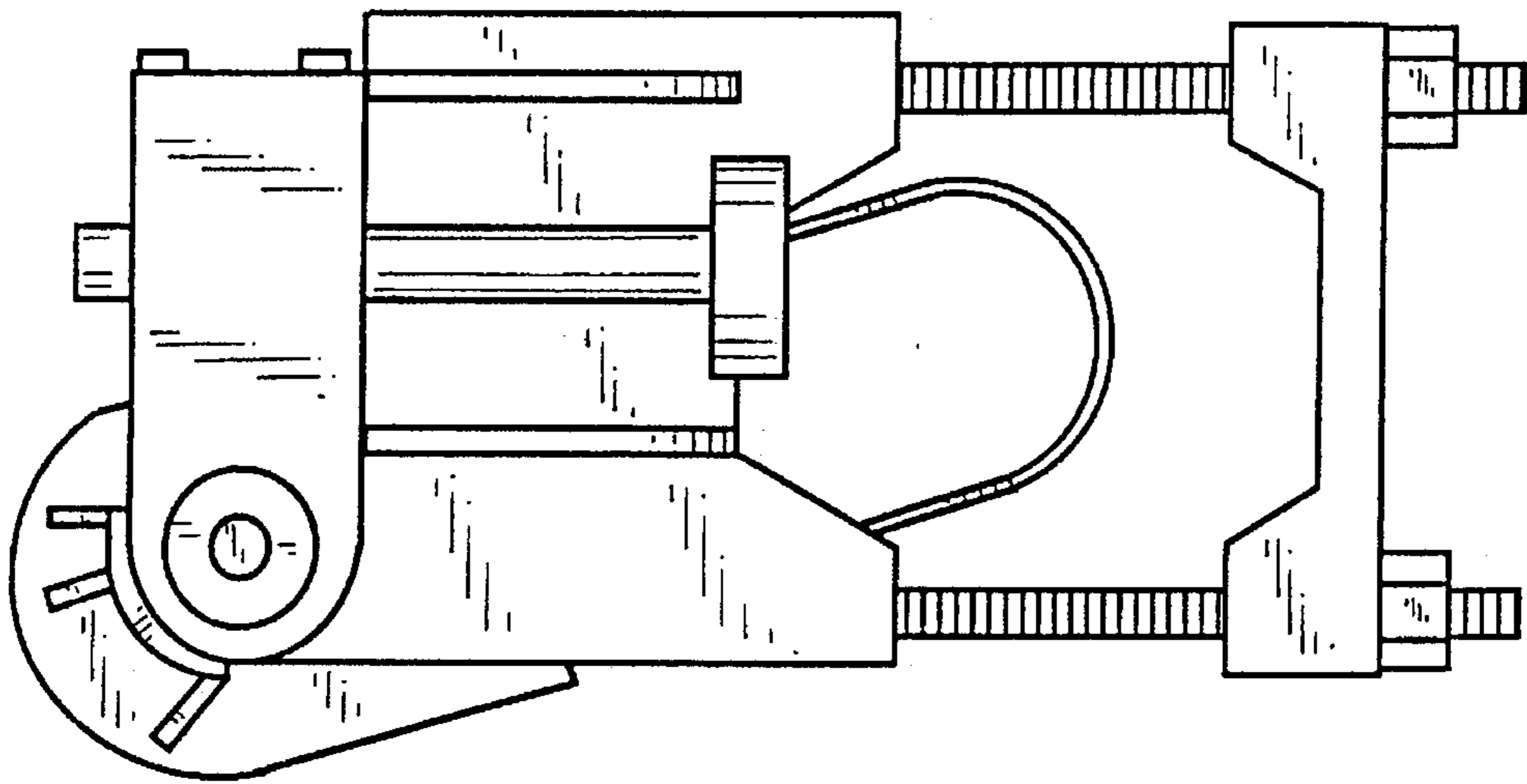


FIG. 6

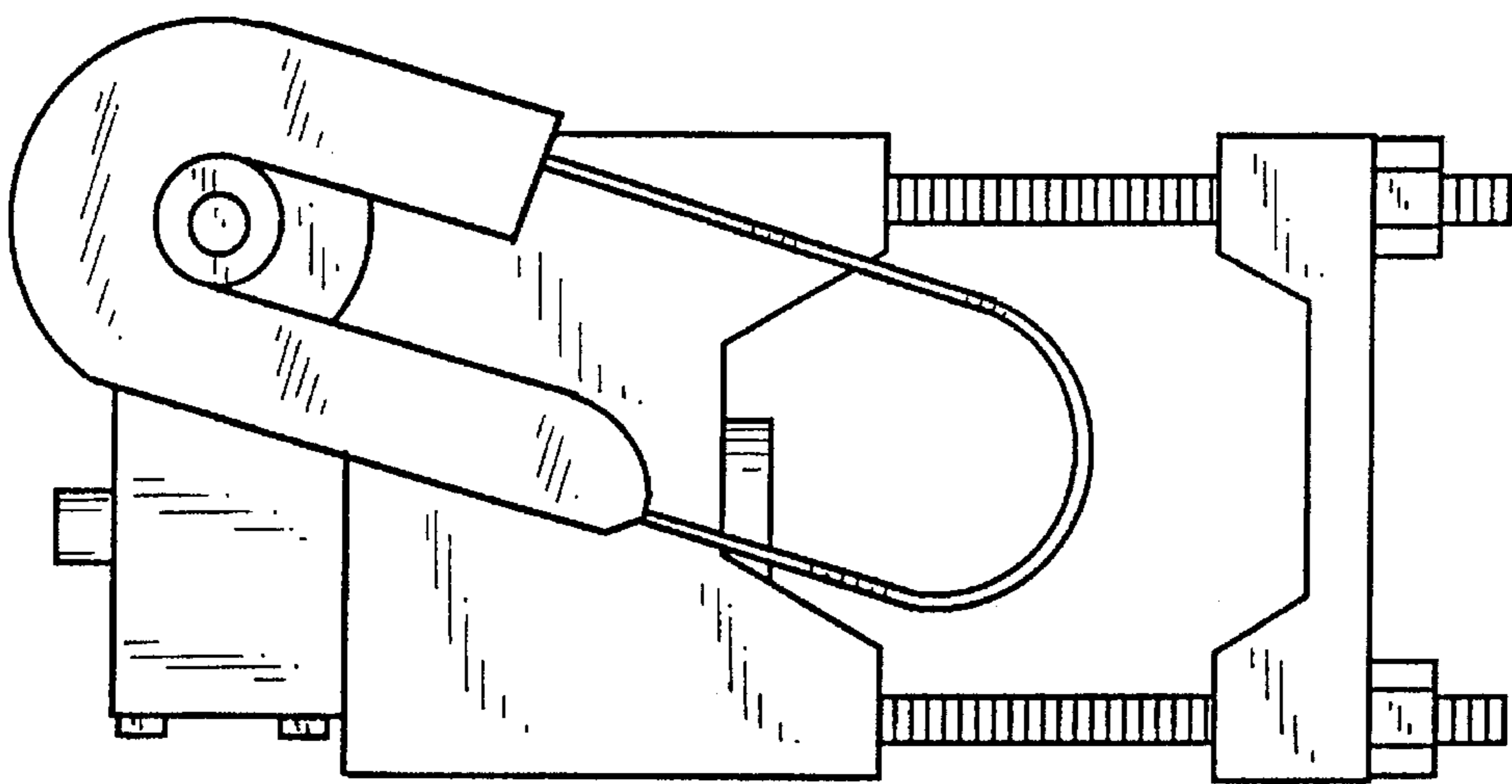


FIG. 7