

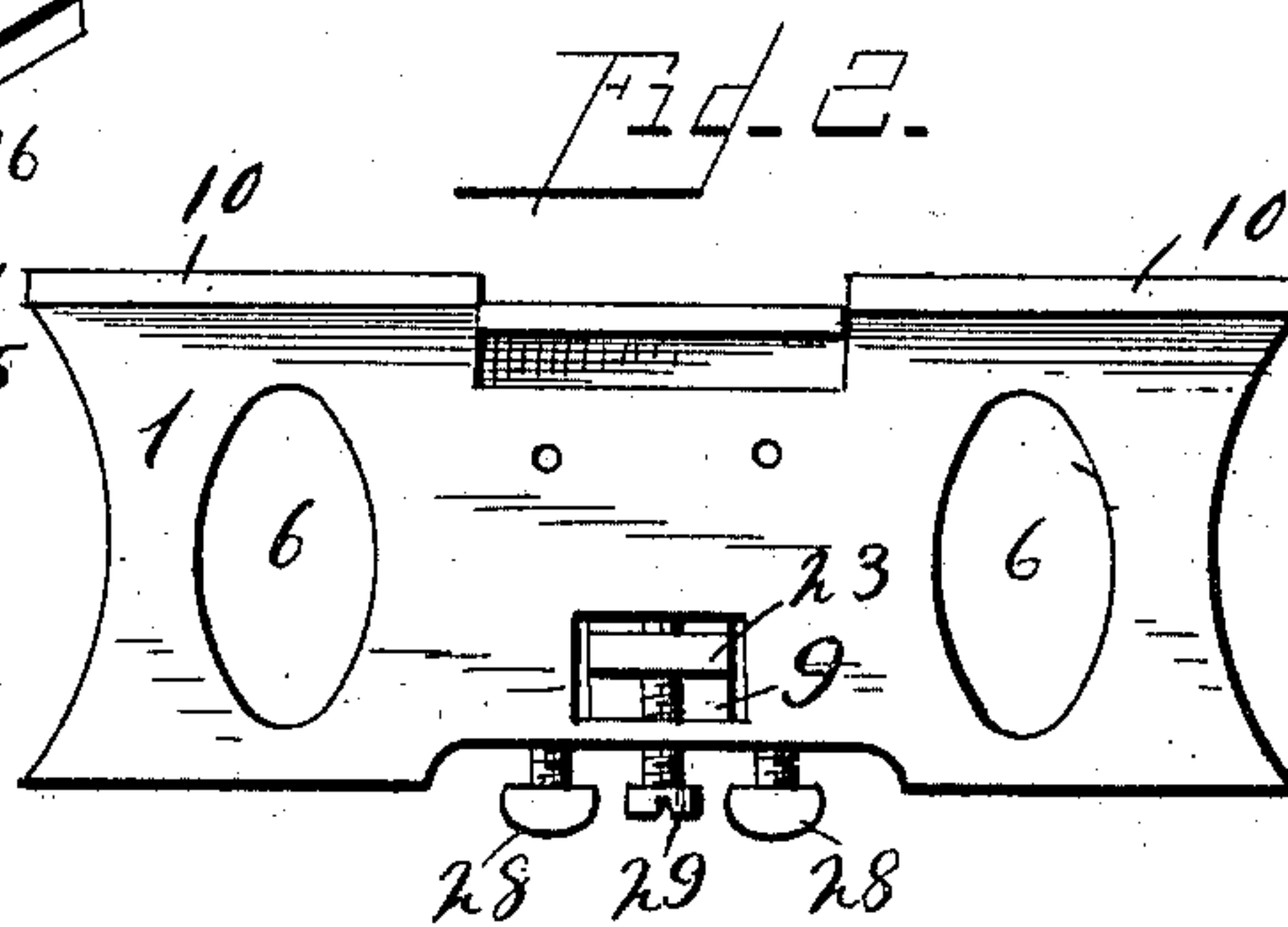
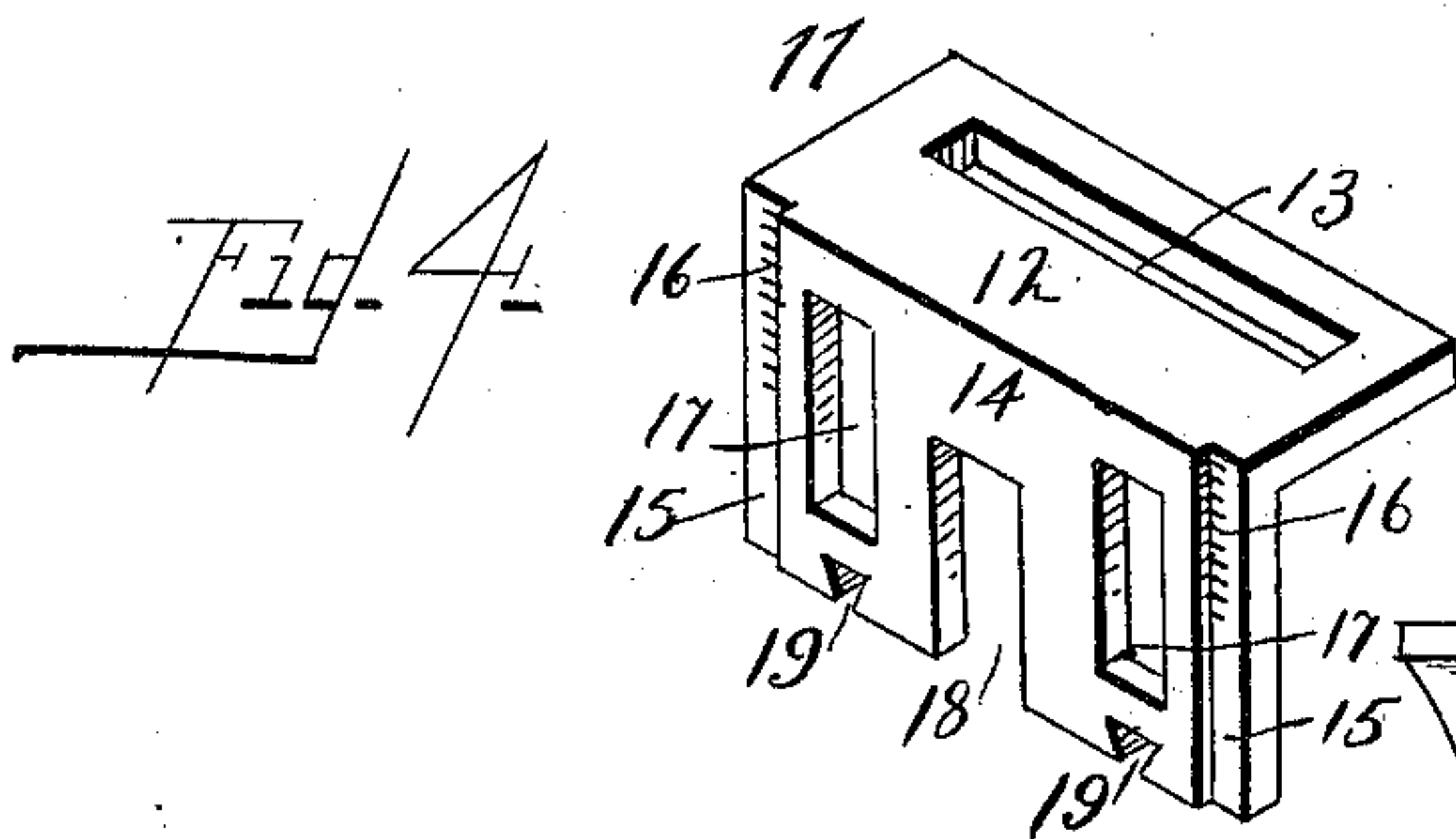
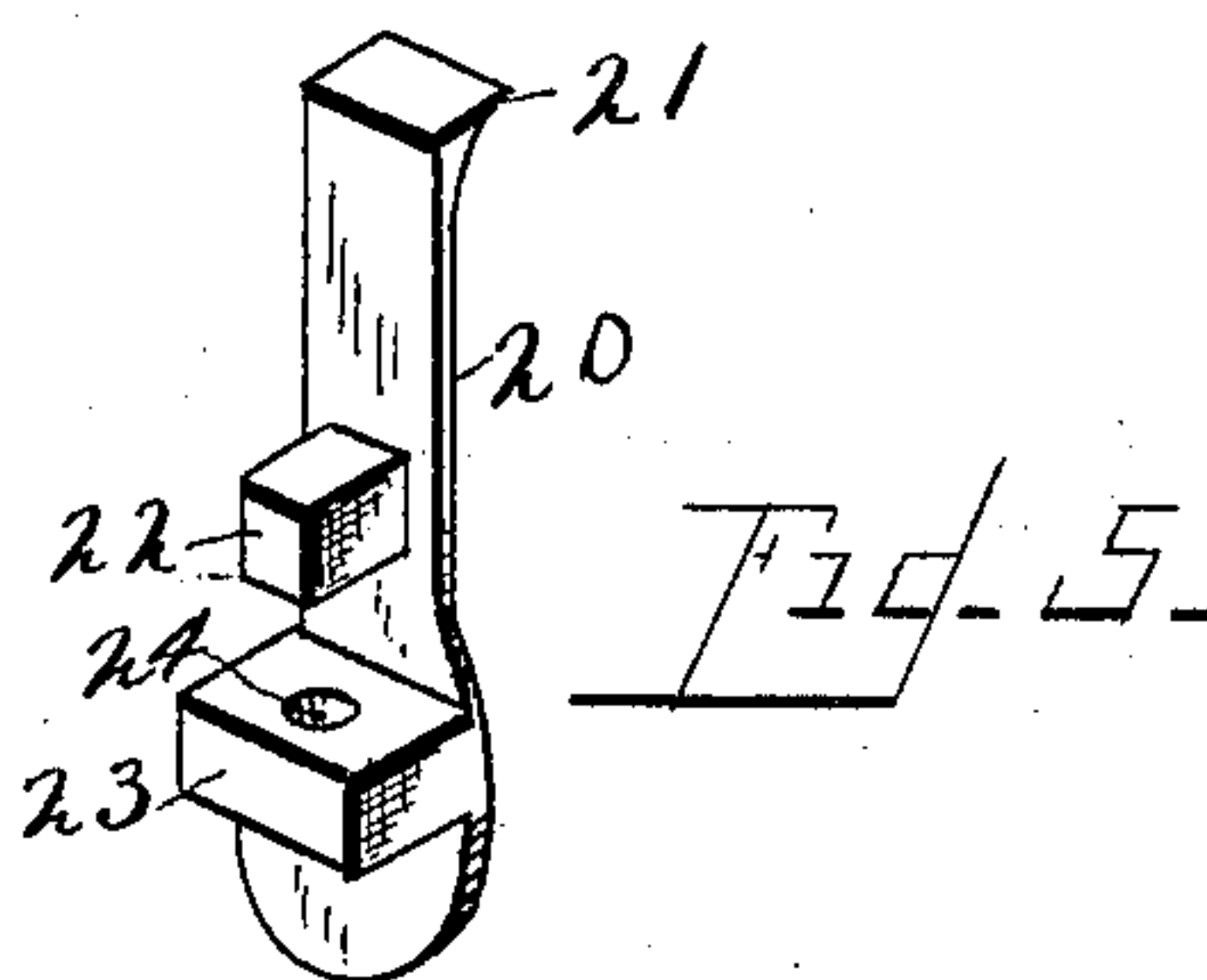
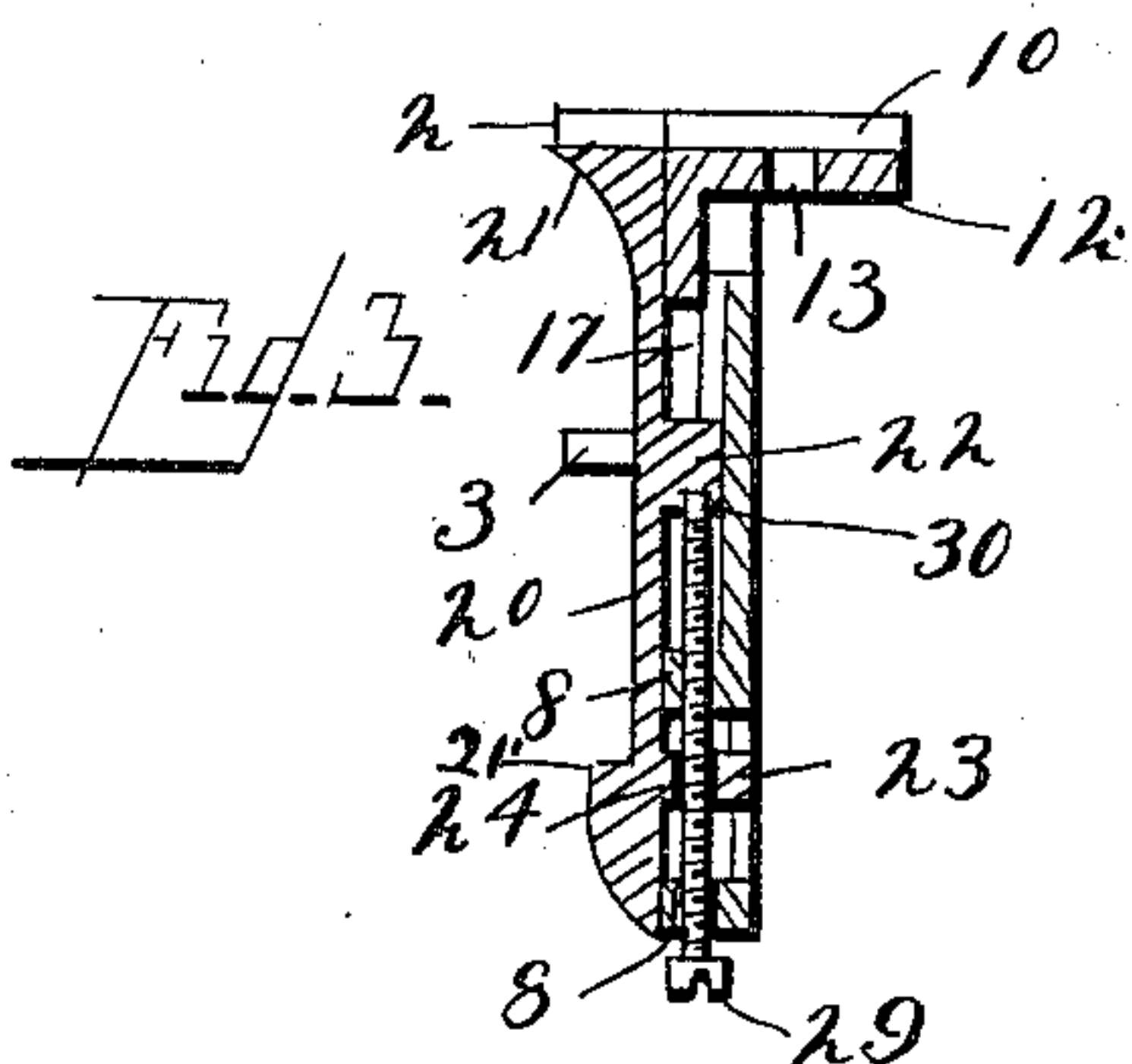
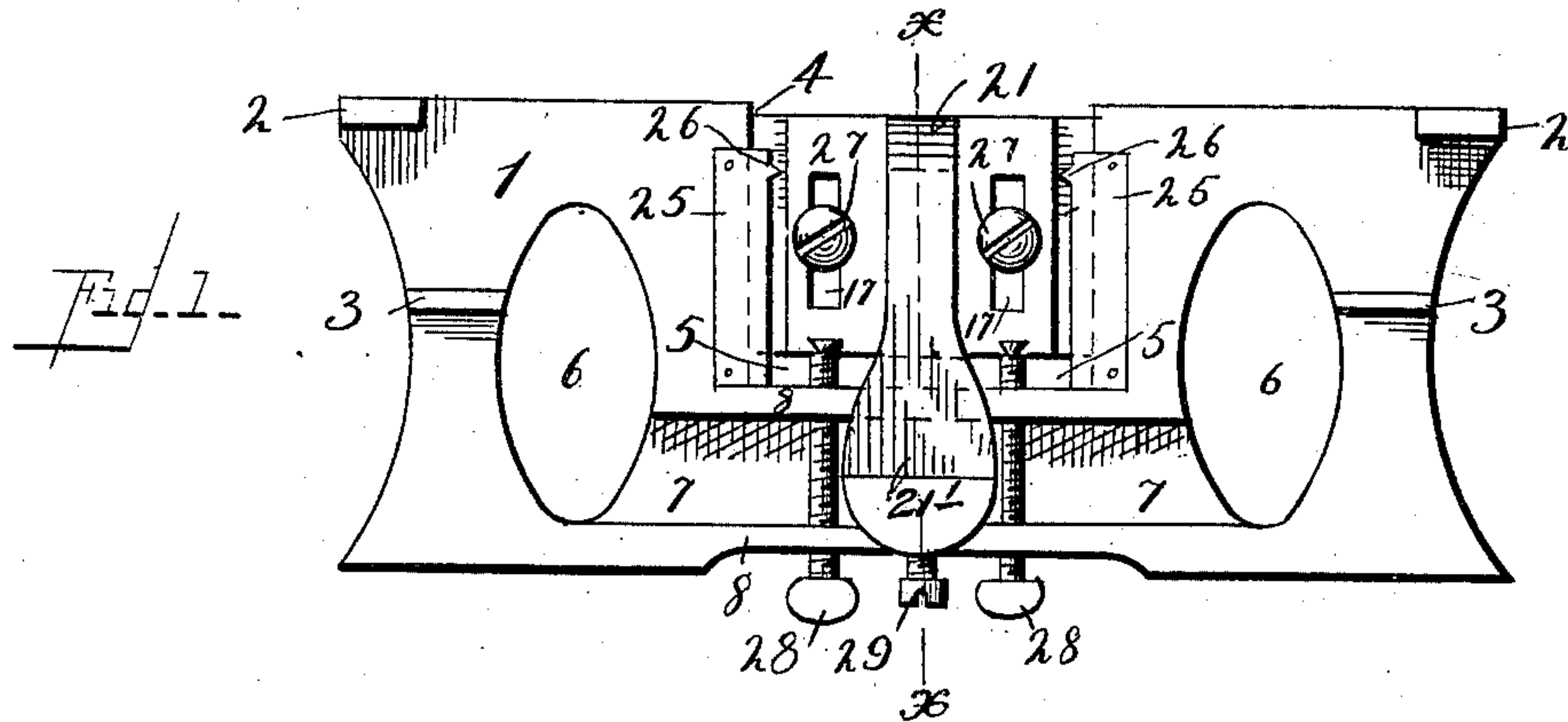
No. 656,739.

Patented Aug. 28, 1900.

J. A. EASLEY.
RAKER GAGE AND SAW JOINTER.

(Application filed Jan. 6, 1900.)

(No Model.)



Witnesses:
George J. Weber.
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UNITED STATES PATENT OFFICE.

JAMES A. EASLEY, OF GENOA, ARKANSAS.

RAKER-GAGE AND SAW-JOINTER.

SPECIFICATION forming part of Letters Patent No. 656,739, dated August 28, 1900.

Application filed January 6, 1900. Serial No. 568. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. EASLEY, a citizen of the United States, residing at Genoa, in the county of Miller and State of Arkansas, have invented certain new and useful Improvements in Raker-Gages and Saw-Jointers, of which the following is a specification.

My invention is a raker-gage and saw-jointer; and it consists in the novel construction and arrangement of its parts.

In the accompanying drawings, Figure 1 is a front face view of my invention. Fig. 2 is a rear face view. Fig. 3 is a cross-sectional view of Fig. 1 on the line X X. Fig. 4 is a perspective view of the raker-gage plate. Fig. 5 is a perspective view of the clamp-bar.

My invention performs three offices: First, it gages and files off with the aid of a file the raker-teeth to the proper lengths. Second, it acts as a jointer by running the file against each side of the saw and straightens the lines of the saw-teeth. Third, it runs over the points of the saw-teeth and straightens the line of the same.

In the accompanying drawings, 1 is the frame. This frame is provided on its front face with two projections 2, one on each end and flush with the upper face of the frame, with two other projections 3, one on each end of the frame and nearly midway of the same from top to bottom, and in the upper edge of the frame and midway the same is a recess 4, which is about one-eighth the depth of the width of the frame, a recess 5, just the width of the recess 4 and about one-half the depth of the thickness of the frame, and extends downwardly about two-thirds the width of the frame, and near each end of the frame are oval perforations 6, and extending from one perforation to the other is a longitudinal recess 7, leaving longitudinal bars 8, one above and one below the said recess 7, and below the upper bar 8 is a square perforation 9, (see Fig. 2,) and on the back side of the frame and extending from the upper edge thereof is a flange 10, being cut away in the middle by the recess 4, above mentioned. (See Fig. 2.)

Fitting and working in the recesses 4 and 5 is a raker-gage plate 11. Its top part 12 is provided with a longitudinal slot 13, while its vertical part 14 is provided on each end with

the recess 15 and scale 16, and near each end are vertical slots 17, and running up from the lower edge of the plate is another vertical slot 18, and in the lower edge of the plate are two dovetail slots 19. There is a clamp-bar 20, provided at its top end with a foot 21 and at its bottom end a shoulder 21', and near its middle with an inwardly-extending lug 22, and near its lower end with another inwardly-extending lug 23, and running vertically through this lug 23 is a perforation 24. The raker-gage plate 11 is put in place, as shown in Fig. 1, and then on each side of the recess 5 is secured a bar 25. These bars extend over the edges of the recess 5, leaving a slot for the vertical part of the raker-gage plate to run in, and extending from the inner edges of these bars are fingers 26, pointing to the scales. Working through the slots 17 are screws 27 to hold the plate firmly in place when it has been set. Running through threaded openings in the bars 8 are swivel-screws 28, having cone-shaped ends which fit in the cone-shaped slots 19 of the raker-gage plate 11. By turning these screws to the right or to the left the said plate 11 may be raised or lowered to the proper gage desired, and then said plate is held in place by screwing down the screws 27.

Running through threaded perforations in the bars 8 is a screw-bolt 29. This screw-bolt 29 runs through a perforation 24 in the projection 23 of the clamp-bar 20, the lower end of this screw resting against or sitting in a recess 30 in the lower face of the extension 22. Thus by turning the said screw-bolt 29 to the right the foot 21 is pressed upwardly.

This completes the description of my invention.

When I wish to shorten the length of the raker-teeth, I set the gage 11 so that I may cut the teeth the desired length. When the gage is set, the raker-teeth extend up a little through the slot 13 and are filed off. The upper face of the said plate 11 is made of chilled steel. When I wish to straighten or dress the teeth, by rubbing the file against either side of the saw I let clamp-bar 20 down and clamp the file with one of its flat sides against the face of the frame between the shoulder 21' and the lug 3, and then I turn the screw 29 up until the file is firmly bound in place. When

I wish to even off the ends of the saw-teeth, I place the file against the lugs 2 with one edge against the face of the frame and move the foot 21 up until the file is held firmly in this position, and I may bend the file a little by screwing hard on the screw 29, and thus give the file a little curve to conform to the curve of the saw, as nearly all large saws are slightly curved. Where the saw is straight, I do not curve the file.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A saw-gage, jointer and side dresser comprising the frame 1, having lugs 2, and 3; recesses 4, 5, and 7; oval perforations 6, longitudinal bars 8, square perforation 9, and flange 10; with raker-tooth plate 11, having a horizontal part 12, provided with a slot 13, vertical part 14, having recesses 15, scales 16, slots 17, and 18, and in its lower edge, dovetail slots 19; bars 25, each provided with a

finger 26, secured to the face of the frame and extending over the edges of the vertical part of the plate 11; screws 28, working through threaded perforations in the bars 8, their upper ends, fitting in the dovetail slots 19, and adapted to move said plate up and down; screws 27, adapted to hold said plate in place; clamp-bar 20, provided with a foot 21, shoulder 21', lug 22, working in slot 18, of plate 11, and perforated lug 23, working in square perforation 9, of the frame; said clamp-bar 20, being adapted to be moved upwardly by the screw 29; substantially as shown and described and for the purposes set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES A. EASLEY.

Witnesses:

R. H. EASLEY,
L. P. GREER.