

No. 633,110.

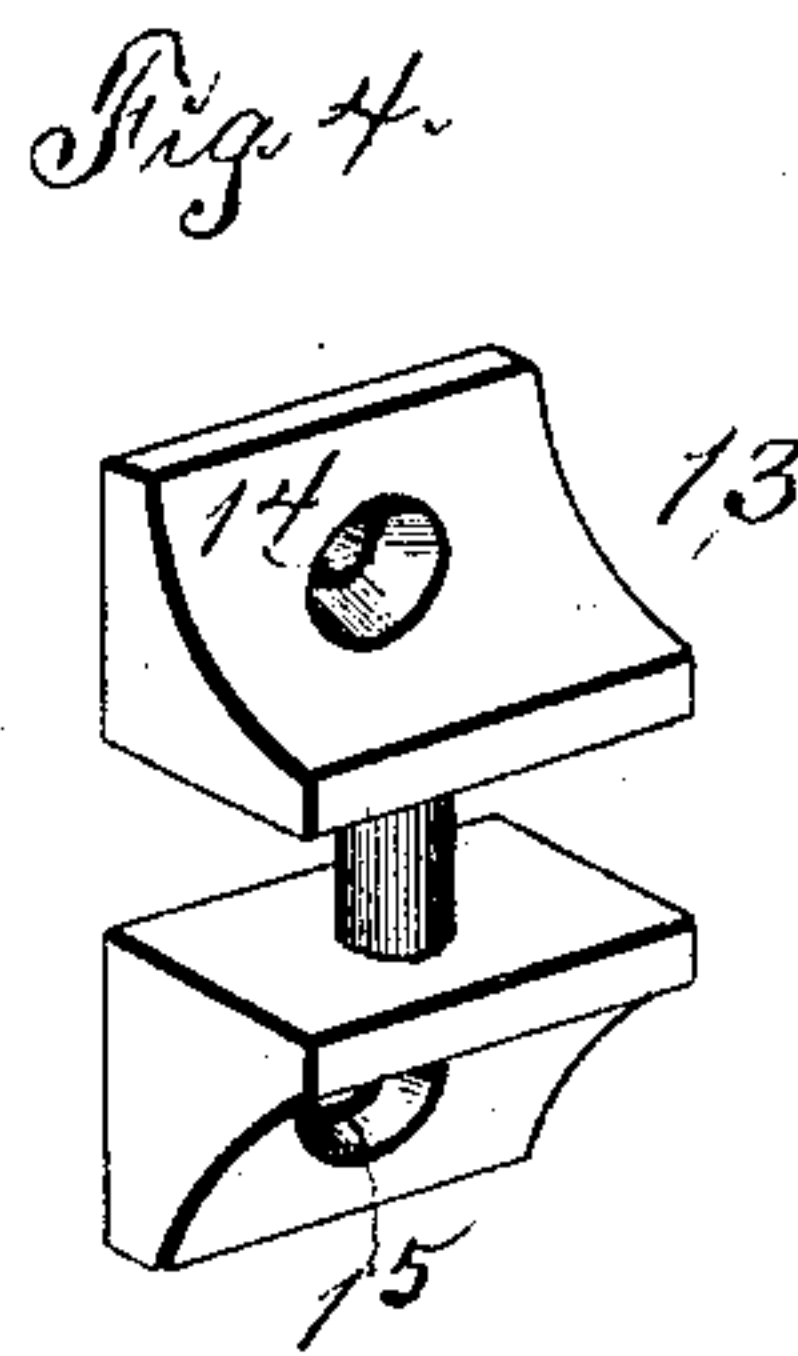
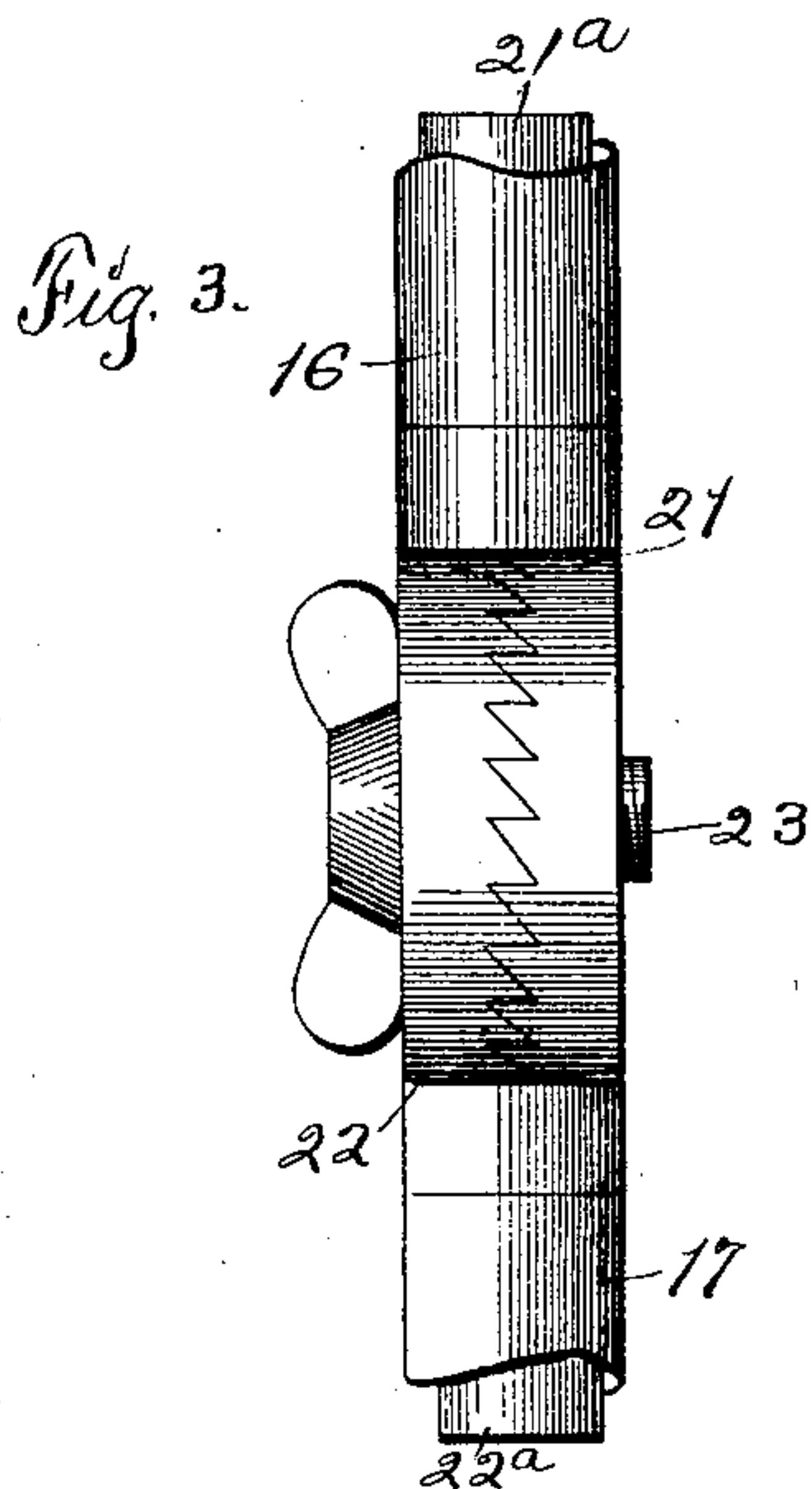
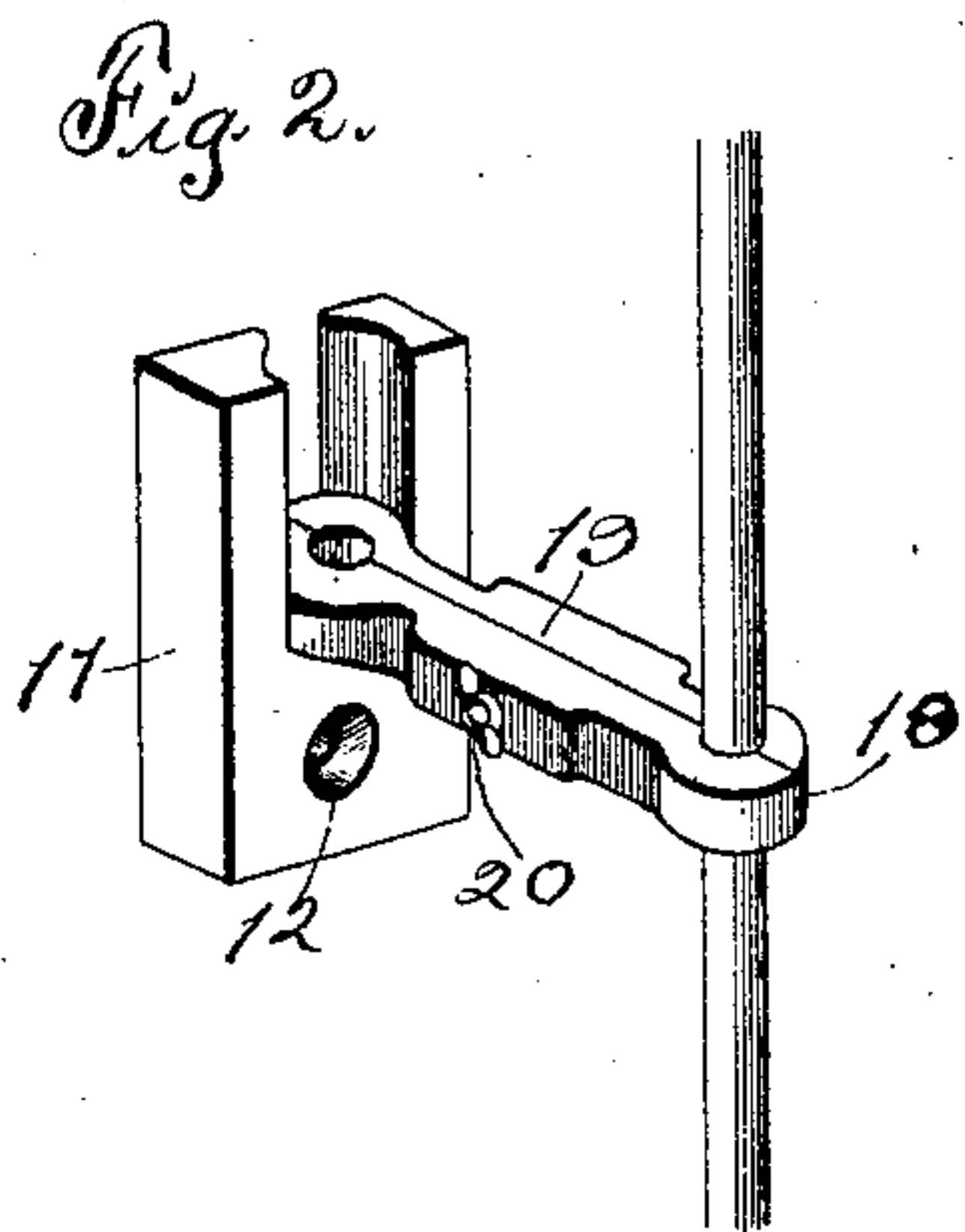
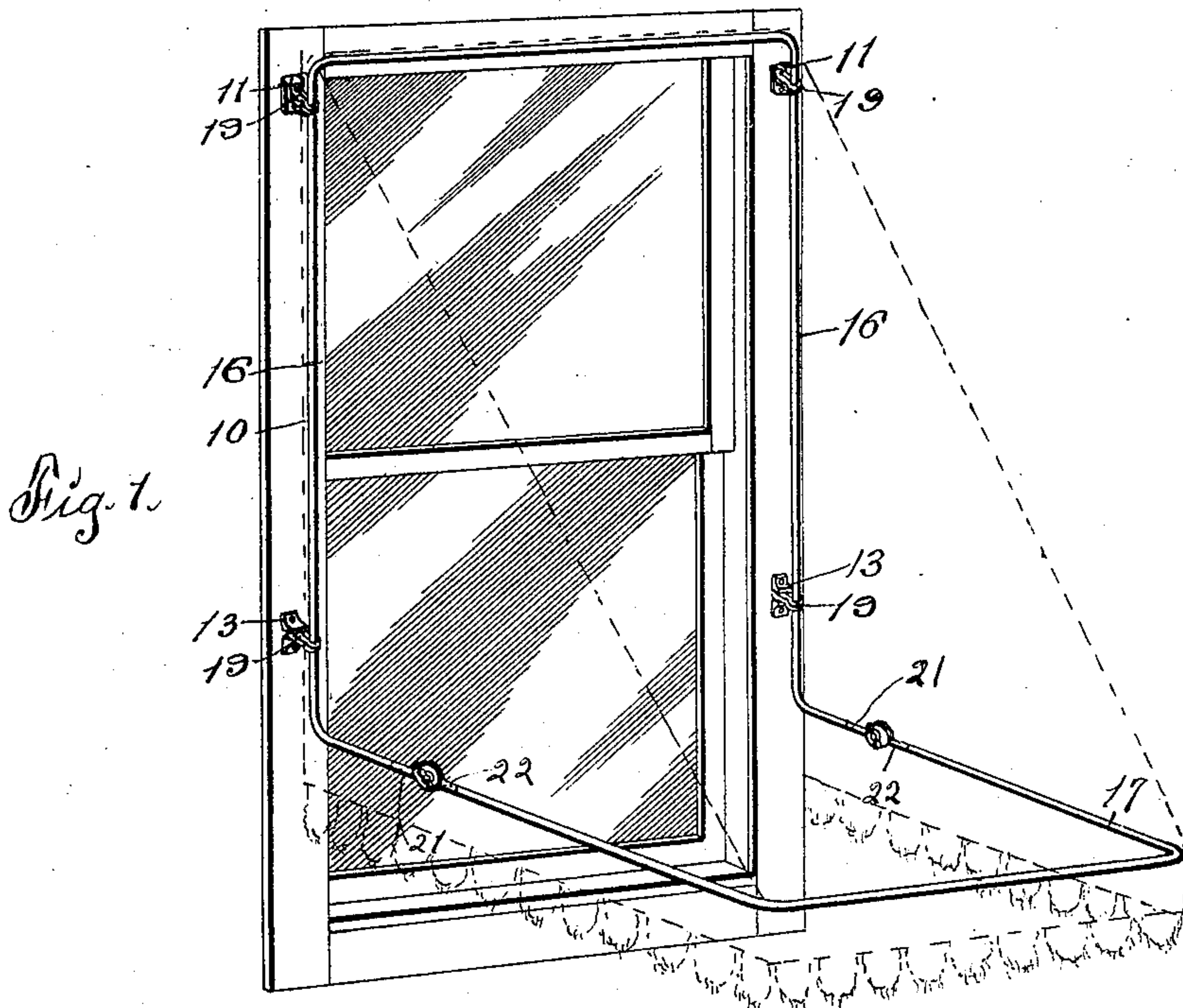
Patented Sept. 19, 1899.

W. S. ARMSTRONG.

DETACHABLE AWNING FOR WINDOWS OR DOORS.

(Application filed Dec. 6, 1898.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

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DETACHABLE AWNING FOR WINDOWS OR DOORS.

SPECIFICATION forming part of Letters Patent No. 633,110, dated September 19, 1899.

Application filed December 6, 1898. Serial No. 698,490. (No model.)

To all whom it may concern:

Be it known that I, WALTER S. ARMSTRONG, a citizen of the United States, residing at Ruthven, in the county of Palo Alto and State of Iowa, have invented a new and useful Detachable Awning for Windows or Doors, of which the following is a specification.

The object of this invention is to provide improved means for sustaining an awning and detachably connecting the same to the frame of a window or door.

My invention consists in the construction, arrangement, and combination of elements hereinafter set forth, pointed out in my claims, and illustrated by the accompanying drawings, in which—

Figure 1 is a perspective showing my awning-frame attached or mounted as required for practical use, the dotted lines indicating the position of the awning fabric when mounted on the frame. Fig. 2 is a perspective view of a device for detachably connecting an awning-frame with a window and consists of a casting to be fixed to a window-casing and a clamping device adapted to be detachably fixed to the casting and to an awning-frame. Fig. 3 is a detail edge view of a hinge in the awning-frame. Fig. 4 is a detail perspective of one of the lower pair of clips, whereby the awning-frame is connected to the building-frame.

In the construction and mounting of the device, as shown, the numeral 10 designates a window-frame. Castings 11, alike in construction, are mounted on and fixed to the outer face casings of the frame 10 and near the upper ends of said casings. Each casting 11 consists of a body portion having two upwardly-extending lugs, the inner edge of which is cut away to form a concave seat for the reception of the convex end of the clamp 19. A screw-seat 12 is formed in the lower portion, whereby a screw is admitted to mount the casting on the casing. Clips 13, alike in construction, are mounted on and fixed to the outer faces of the casings, to which the castings 11 are fixed, and are located at or below the centers of said casings or in any other desired positions below the castings 11. The clips 13 are each formed of a single piece of metal and comprise oppositely-arranged heads connected by a stem circular in cross-section and of less di-

ameter than the width of the heads. The heads of the clips 13 are formed with two faces at right angles to each other and a concaved outer face connecting the extremities of the other two faces. The heads of the clips 13 are formed with screw-seats 14 15, whereby screws are admitted to secure the clips to the casings. The stems of the clips 13 are so positioned that they stand out from and parallel with the casings when the clips are mounted for use.

The awning-frame is preferably made of gas-pipe and consists of a U-shaped part 16 and a lower part 17 of corresponding shape. The lower end portions of the parallel bars of the upper part are bent outward, and their upper end portions are engaged by the outer jaws 18 of the clamp 19. The side bars of the frame 16 are engaged by the outer jaws 18 of a clamp 19.

The clamp 19 comprises two mating members oppositely arranged and connected by an adjusting-screw 20, the ends of the members being formed as jaws and surrounding a space of sufficient diameter to admit the side bars of the frame. The jaws at each end of the clamps are alike and are rounded on their outer surfaces to seat at one end or the other in the concaved or grooved edges of the forked portions of the castings 11 or embrace the stems of the clips 13 or embrace the side bars of the frame 16, as occasion and the convenience of the operator may determine.

The side bars of the frame 16 are connected to the castings 11 by clamps embracing parts of the U-shaped frame 16 and seated in the castings, and said frame is attached to the clips 13 by clamps embracing both parts of the frame 16 and the stems of the clips 13.

The U-shaped frames 16 17 are connected by clutching-hinges as follows: The clutching-hinges are each formed of two members 21 22, having circular body-plates serrated or notched by ratchet-teeth on adjacent faces and mating or meshing with each other, and stems 21^a 22^a, radially projecting from the plates, the body-plates being centrally apertured and provided with an adjusting-screw 23, loosely traversing one aperture and screw-seated in the other aperture. By hanging the ends of the frame 17 to the horizontal extensions at the bottom of the frame 16 the frame

17 can incline toward the window and against the upper part of the frame 16 to rest there, so that its weight will aid in retaining it in such inclined position. The awning fabric, 5 (not fully shown,) of common form and material, is fixed at or near its margins to the frames 16 17.

The awning-frame may be removed from the window or door frame by first releasing 10 the clamps connecting the part 16 and clips 13 and then raising the awning-frame to lift the upper clamps out of the forked castings 11.

The part 17 may be adjusted or oscillated relative to the part 16 by unscrewing the adjusting-screws 23 sufficiently to permit the meshing faces of the body-plates of the clutching-hinges to pass each other and may be retained at any desired acute angle to the bow 16 by seating the screws 23 to bring the said 20 meshing faces of the hinges together.

I claim as my invention—

1. In a detachable awning, a casting consisting of a body portion having two upwardly-extending lugs, the inner edges of which are 25 cut away to form a concave seat for the reception of the convex end of a clamp, and a clamp consisting of two mating members having ends adapted to enter said concave seat and to engage an awning-frame, in combination with an awning-frame, as shown and described for the purposes stated. 30

2. In a detachable awning, a clip consisting of oppositely-arranged heads, adapted to be fixed to a door or window facing by means 35 of screws, and connected by a round stem

and a two-part clamp adapted to engage said stem at one of its ends and an awning-frame at its other end, in combination with an awning-frame, as shown and described, for the purposes stated. 40

3. In a detachable awning, a clamp composed of two mating parts detachably connected by means of a screw and their ends adapted to enter a concave seat in a fixed casting and also adapted to engage an awning-frame, in combination with a fixed casting having a concave seat for the end of said clamp and an awning-frame, as shown and described for the purposes stated. 45

4. An adjustable and detachable awning 50 comprising a frame of two U-shaped parts hinged together, means for adjusting one part relative to the other, castings adapted to be fixed to a door or window casing and provided with concave seats for the reception of 55 the ends of clamps, clamps composed of two mating parts detachably connected and their ends adapted to enter said concave seats and also adapted to embrace and clamp the bars of the awning-frame, clips having mating 60 heads adapted to be fixed to a door or window casing and connected by a round stem and a flexible cover fitted and attached to the awning-frame, all arranged and combined as shown and described for the purposes stated. 65

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