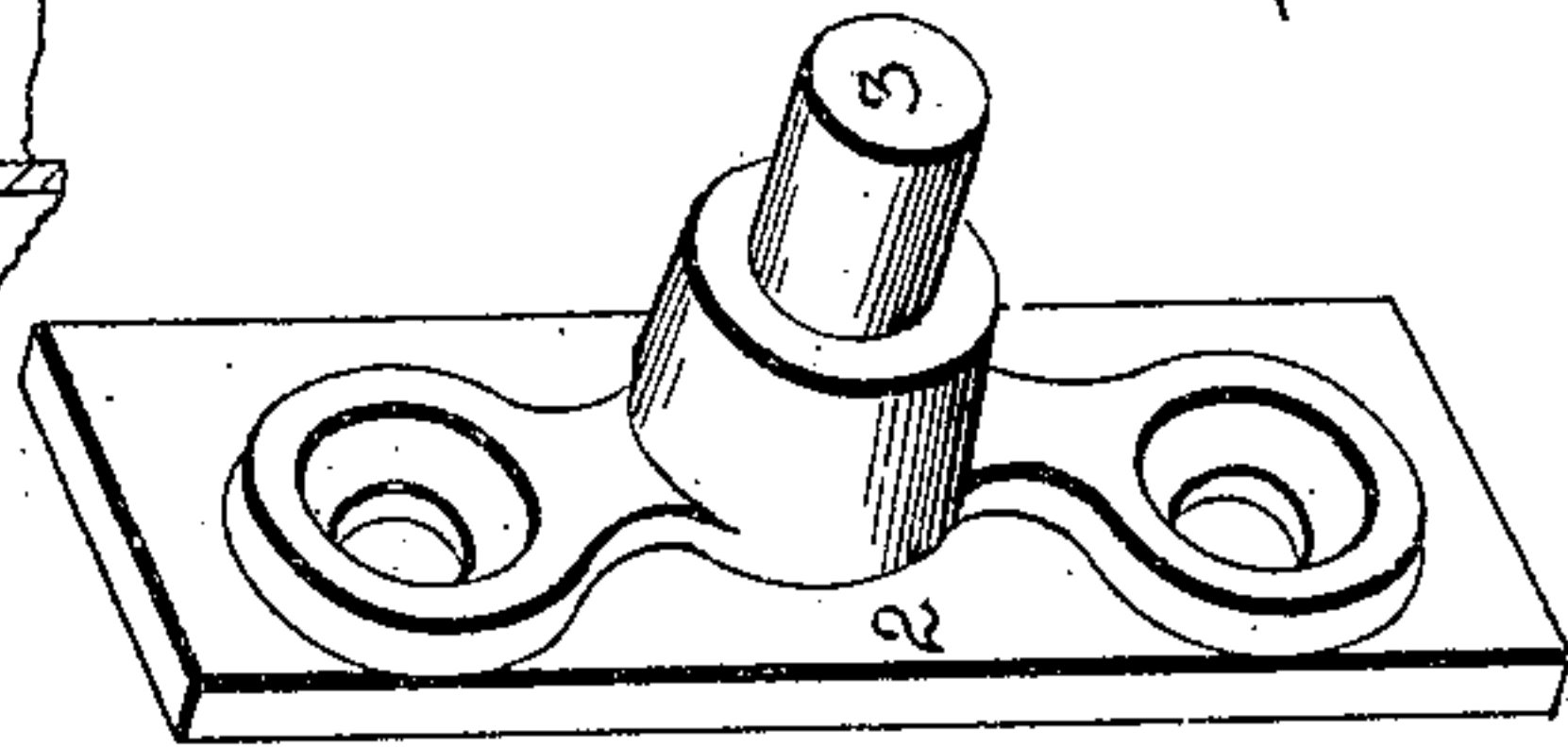
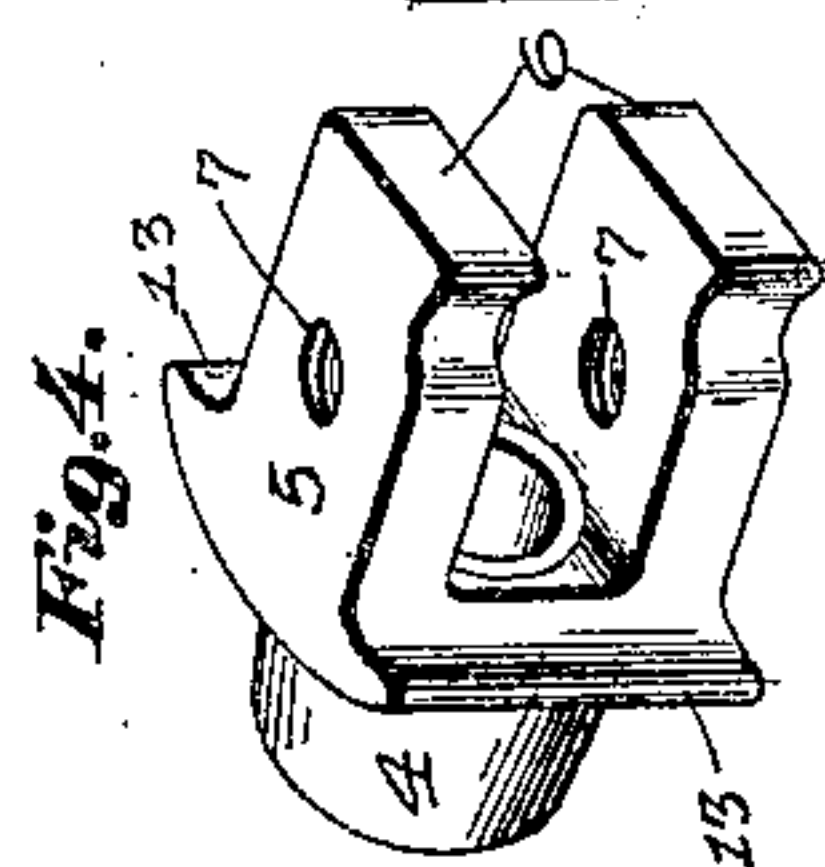
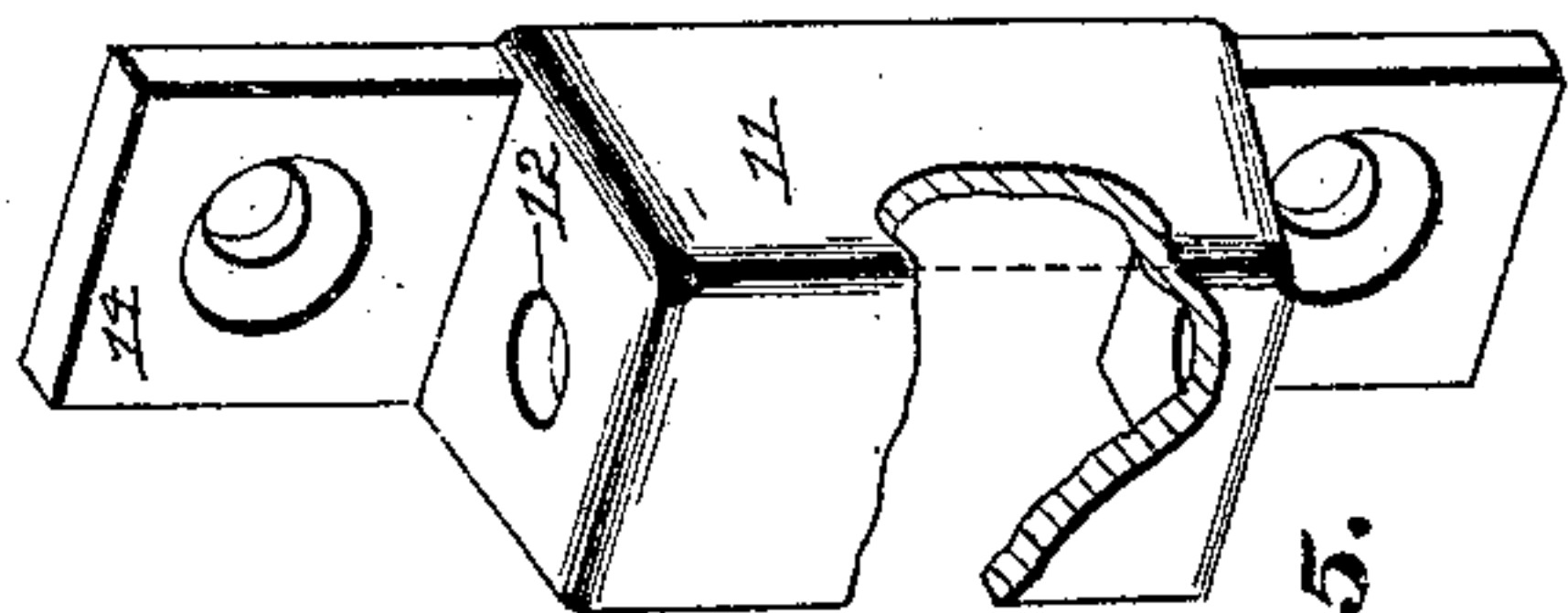
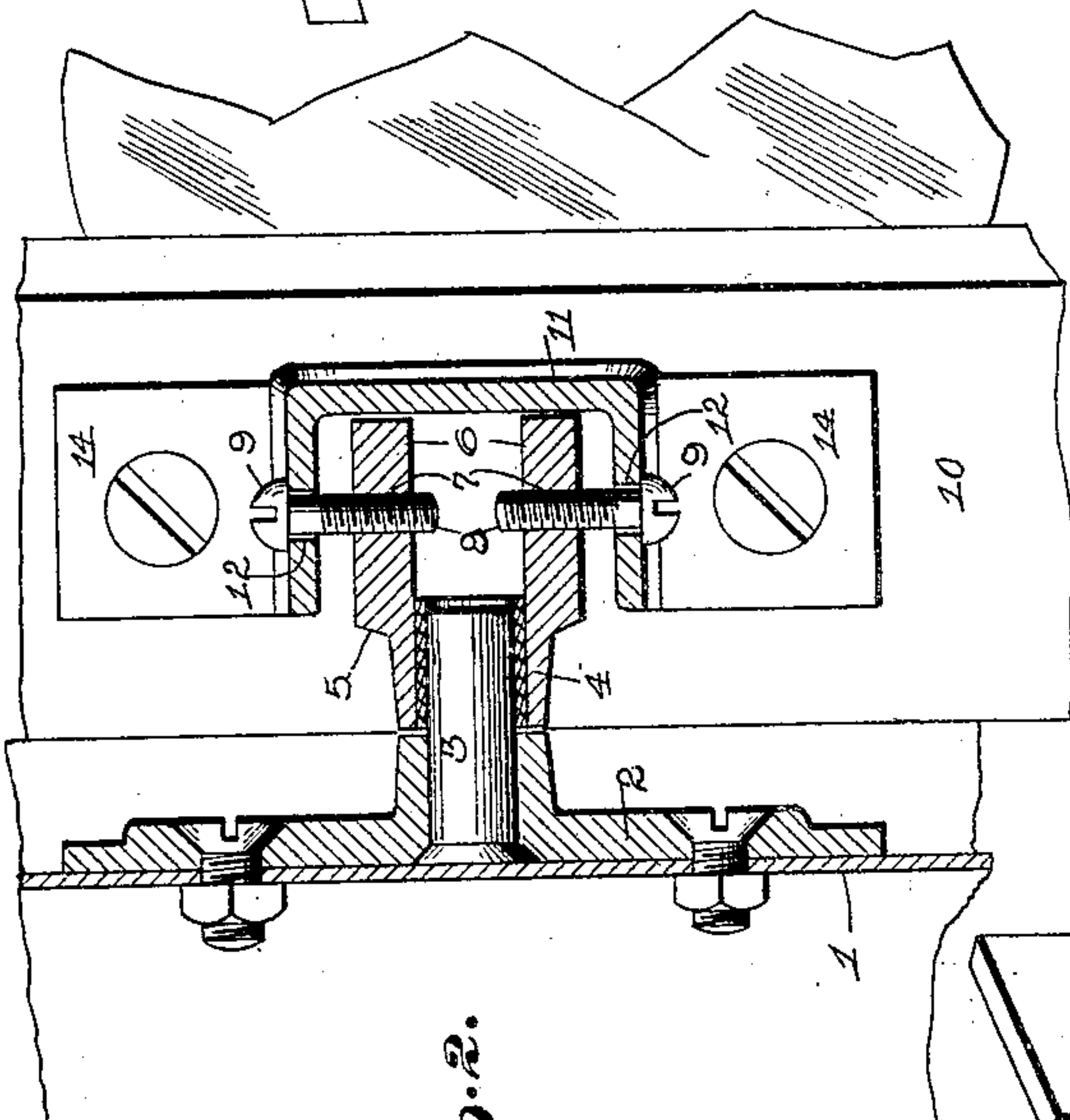
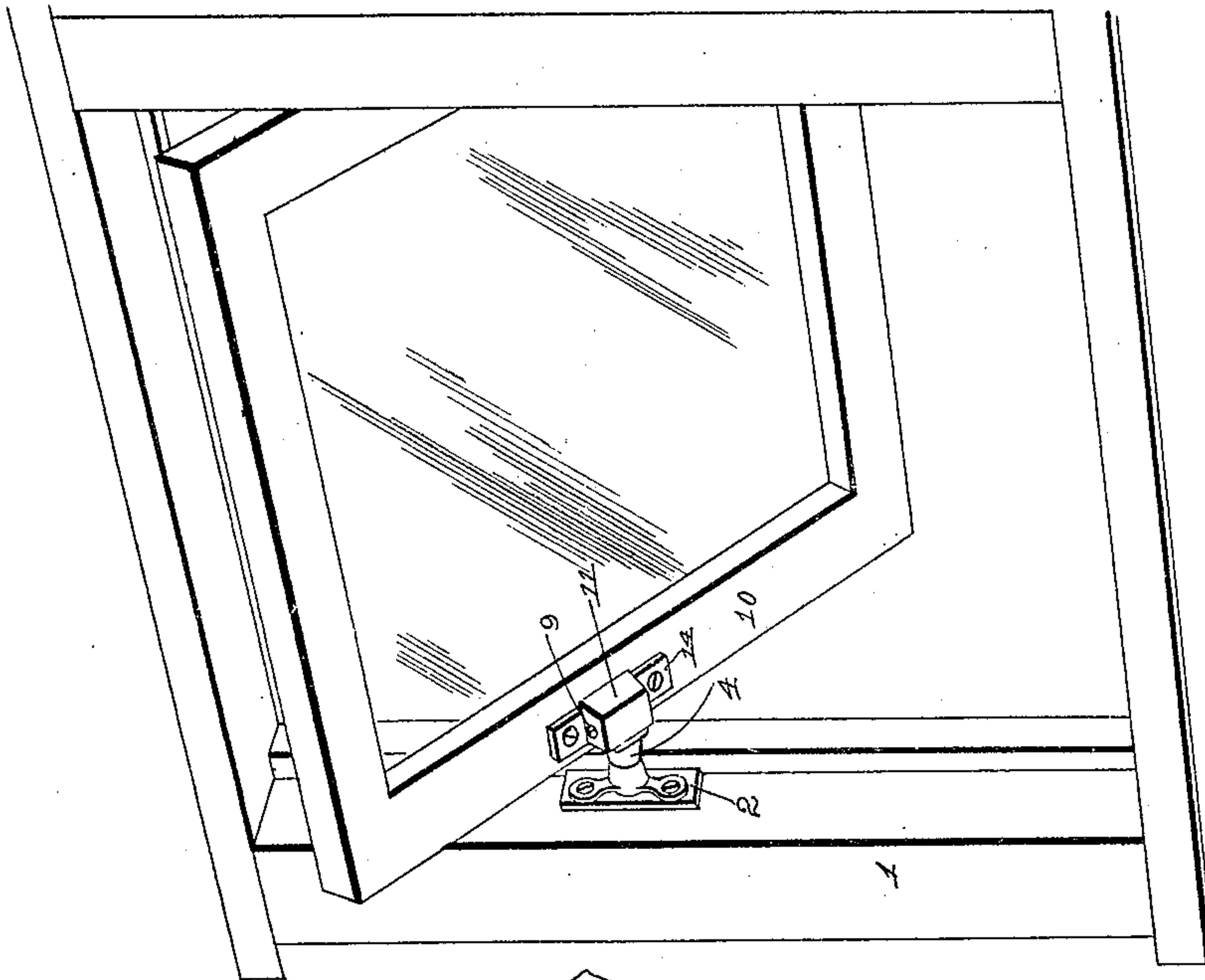


O. A. ESSIG.
ADJUSTABLE CENTER FOR WINDOW SASH.
APPLICATION FILED MAR. 30, 1908.

920,445.

Patented May 4, 1909.



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UNITED STATES PATENT OFFICE.

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ADJUSTABLE CENTER FOR WINDOW-SASH.

No. 920,445.

Specification of Letters Patent.

Patented May 4, 1909

Application filed March 30, 1908. Serial No. 424,092.

To all whom it may concern:

Be it known that I, OZIA A. ESSIG, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Adjustable Centers for Window-Sash; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawing, making a part of the specification.

The object of the present invention is to provide means whereby the bearings of window sash and transom sash can be adjusted in such a manner that the bearings are brought into the proper position to true the sash so that their vertical edges, and tops and bottoms will act freely and will come in proper contact with the window frame when the sash is closed.

The present invention has more specific reference to metallic windows and transom sashes, but of course can be applied to wood sashes without departing from the nature of the present invention.

It will be understood that in metallic sashes it is practically impossible to change the length or width of the sash after constructed and the panes of glass connected thereto.

These objects and purposes are carried out by the different parts and arrangements of parts shown and described.

In the accompanying drawing: Figure 1 is a perspective view of a window frame, showing the window sash partially opened or turned upon its pivotal points. Fig. 2 is a vertical section of one of the joints or bearings, showing the different parts properly arranged and connected together. Fig. 3 is a detached perspective view of the center plate and pin designed to be permanently attached to the window frame. Fig. 4 is a detached perspective view of the adjustable bearing. Fig. 5 is a detached view of the housing showing parts broken away.

Similar numerals of reference indicate corresponding parts in all the figures of the drawing.

In the accompanying drawing, 1 represents the window frame, which is shown conventionally. To the vertical members of the frame are permanently attached the plates 2, which plates are provided with the metal pins or bearings 3, which bearings may be

made separate from the plate 2 and attached in any convenient and well known manner, or if desired they may be made integral with said plates, as the only object is to provide a fixed bearing pin. Upon the bearing pin 3 is located the thimble 4, which thimble is extended from the head 5, which head is provided with the integral spaced flanges 6, which flanges are provided with the screw threaded apertures 7, which apertures are for the purpose of receiving the screws 8, which screws are provided with the heads 9. To the vertical sash rails 10 are attached the housings 11 in any convenient and well known manner, which housings are provided with the non-screw threaded apertures 12, through which apertures the screws 8 pass. The parallel flanges 6 are located in the housing 11 as best illustrated in Fig. 2 and the screws 8 connected to the flanges 6 as shown in said figure.

It will be understood that by providing the screws 8 and seating their heads 9 against the outer top and bottom faces of the housings 11 there can be no relative movement as between the thimble 4 and its integral spaced flanges 6, and when the thimble is properly mounted upon the bearing pin 3, the window sash will be held against any movement, except the pivotal movement as between the thimble 4 and the bearing pin 3. The housing 11 is formed of a length somewhat greater than the distance between the outer faces of the parallel flanges 6, and is so formed for the purpose of providing for the adjustment, which adjustment is made as hereinafter described.

When it is desired to adjust the window sash with reference to the pivotal bearings thereof, the desired screw 8 is turned in the direction to move its head away from the housing, after which the opposite or other screw 8 is turned in the direction to move the housing of the sash up or down reference being had to which screw is released or relaxed. The screw which moves the housing is turned until the head of the relaxed screw comes in contact with the face of the housing and the housing properly clamped and held between the heads of the screws.

It will be understood that only a limited adjustment is necessary, owing to the fact that the housings when placed upon the window sash are practically adjusted to place.

It will be understood that in order to have

the window sash properly fit, and especially so when formed of metal it is practically impossible to locate the bearings, unless some provision is made for adjustment after the housings have been connected, but this adjustment is necessarily of quite a limited degree, but should be to such a degree or extent that the window sash is properly centered.

For the purpose of assisting in holding the thimble heads in proper relationship with reference to the housings 11 and prevent any twisting action and removing the strain from the screws 8, the head 5 is provided with the side flanges 13, one of said flanges being adapted for contact with the open front edge of the housings 11. It will be understood that the housings 11 must be provided with the flanges 14, which flanges are for the purpose of properly connecting the housings to the sash rails.

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

1. In an adjustable center for window sash, the combination of a fixed plate provided with a sash bearing pin, a sash provided with a housing, a thimble mounted upon the sash bearing pin, a head upon said thimble provided with spaced flanges having screw threaded apertures, a housing adapted to receive the spaced flanges, the top and bottom walls of said housing provided with non-screw threaded apertures, and screws ex-

tending through the non-screw threaded apertures of the housing and into the screw threaded apertures of the flanges, substantially as and for the purpose specified.

2. In a bearing for sash, the combination of a fixed plate having a bearing pin, a thimble head provided with side flanges and spaced flanges having screw threaded apertures, a housing secured to the rail of a sash, said housing adapted to receive the flanges provided with screw threaded apertures and headed screws extending through the housing and into the screw threaded apertures in the spaced flanges, substantially as and for the purpose specified.

3. In an adjustable center for window sash, the combination of a window frame having fixed thereto bearing pins, a window sash having secured thereto housings, thimbles mounted upon the bearing pins, said thimbles provided with spaced flanges and the spaced flanges located in the housings secured to the rails of the sash and screws adapted to hold the thimbles in fixed adjustment with reference to the housings, substantially as and for the purpose specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

OZIA A. ESSIG.

Witnesses:

J. A. JEFFERS,
F. W. BOND.