

C. L. FITCHET.
ADJUSTABLE MIRROR.
APPLICATION FILED APR. 2, 1910

978,573.

Patented Dec. 13, 1910.

2 SHEETS-SHEET 1.

Fig. 1.

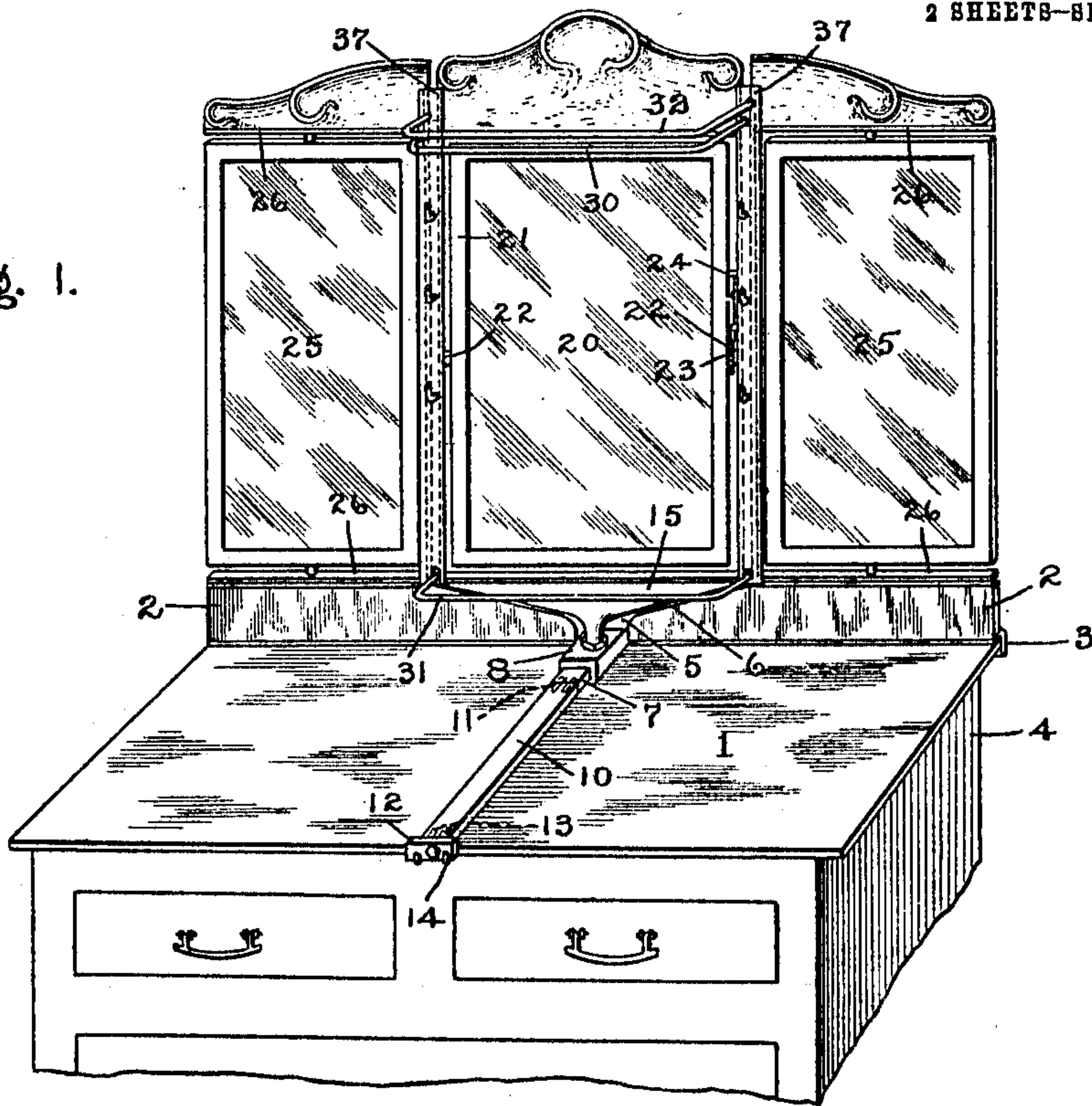
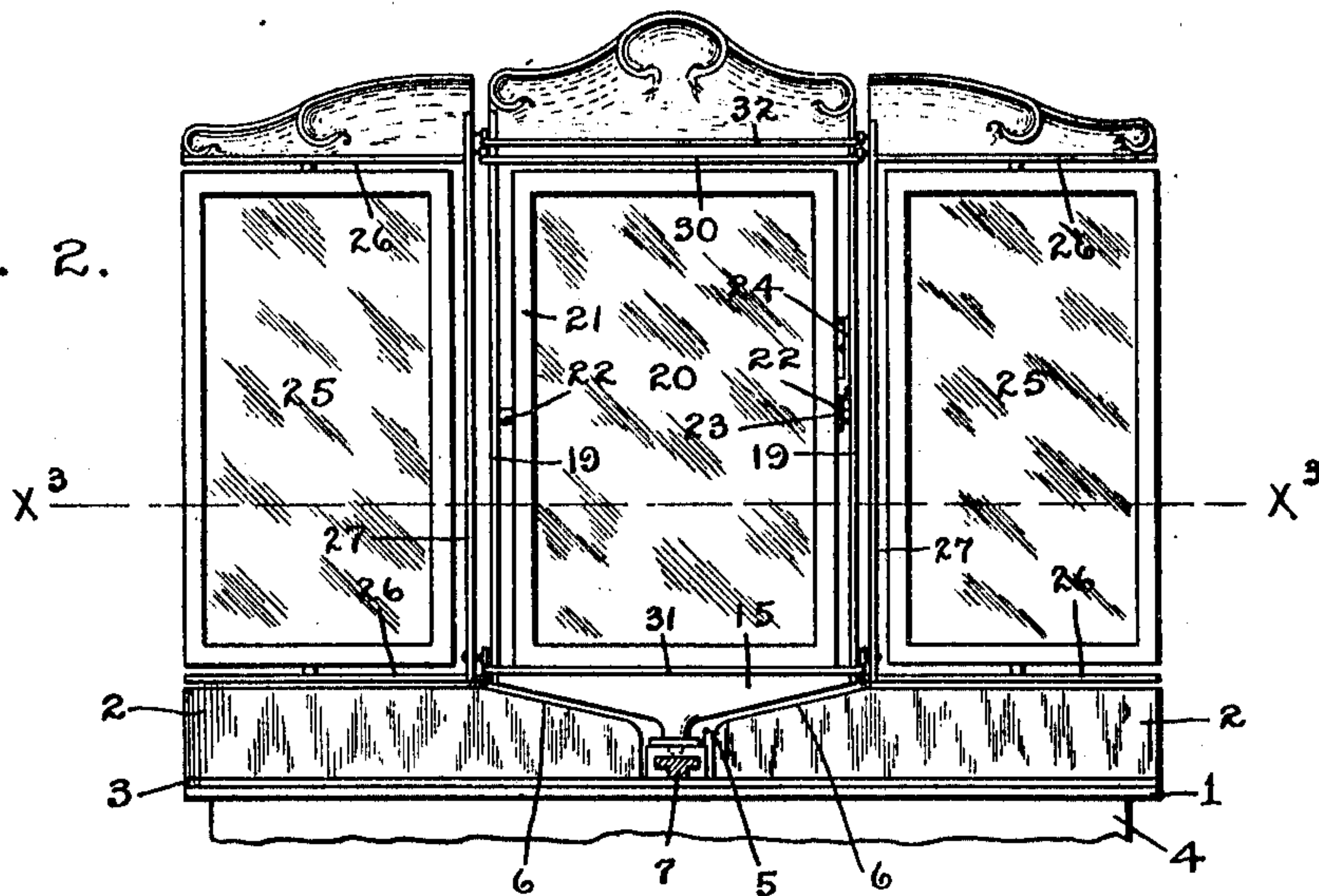


Fig. 2.



Witnesses:-
Lester H. Palmer,
Louis W. Gray.

Inventor:
Charles Lee Fitchet.
Thorvald Gust Haerdel
attys

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2 SHEETS—SHEET 2.

Fig. 3.

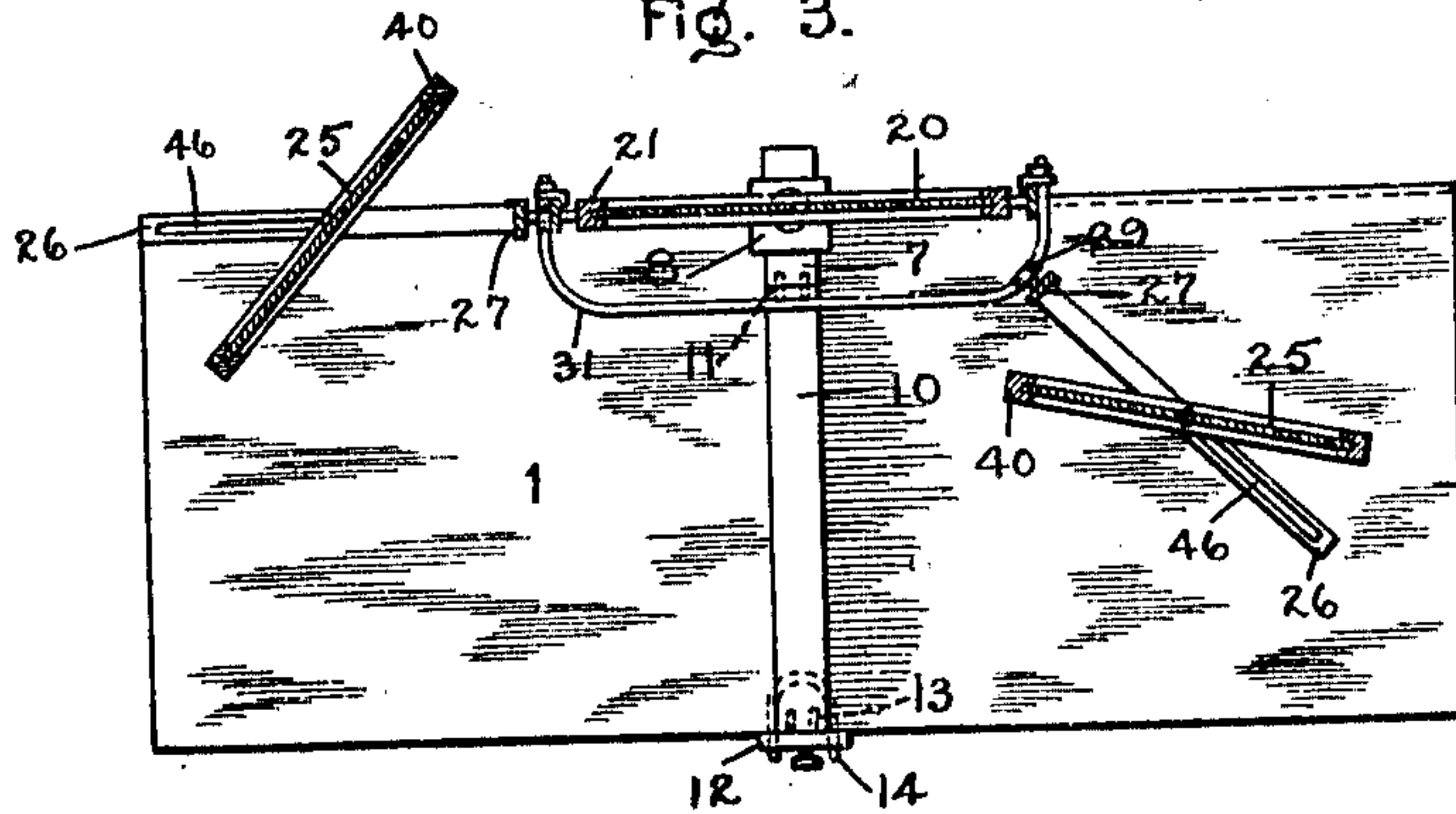


Fig. 4.

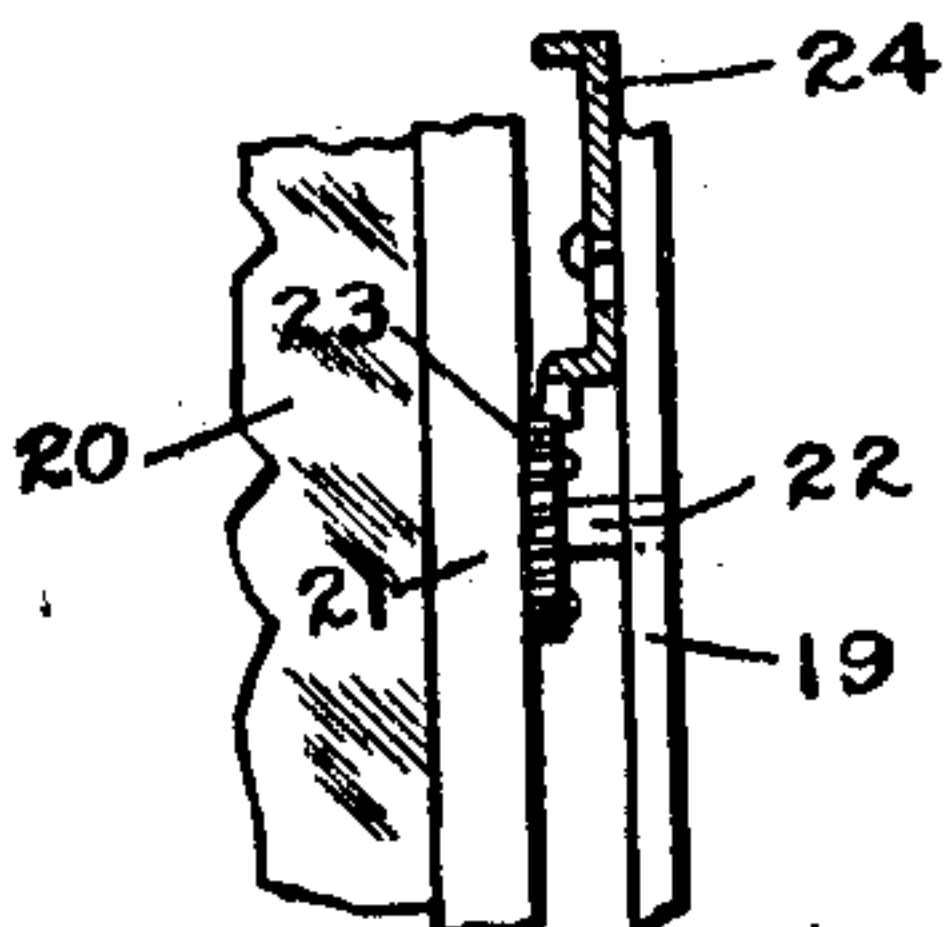


Fig. 11.

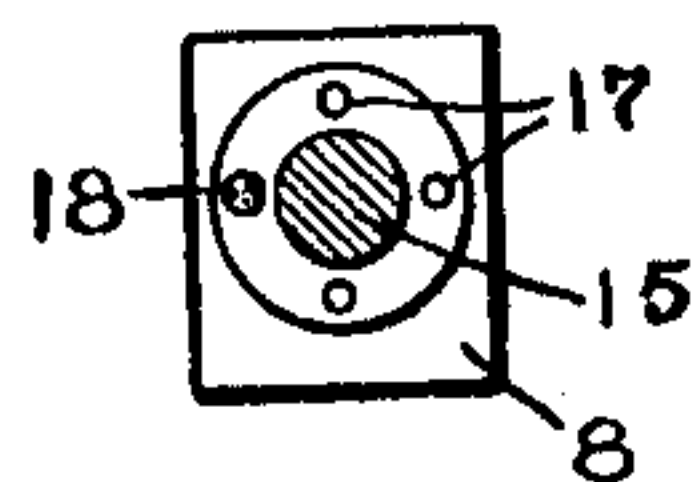


Fig. 5.

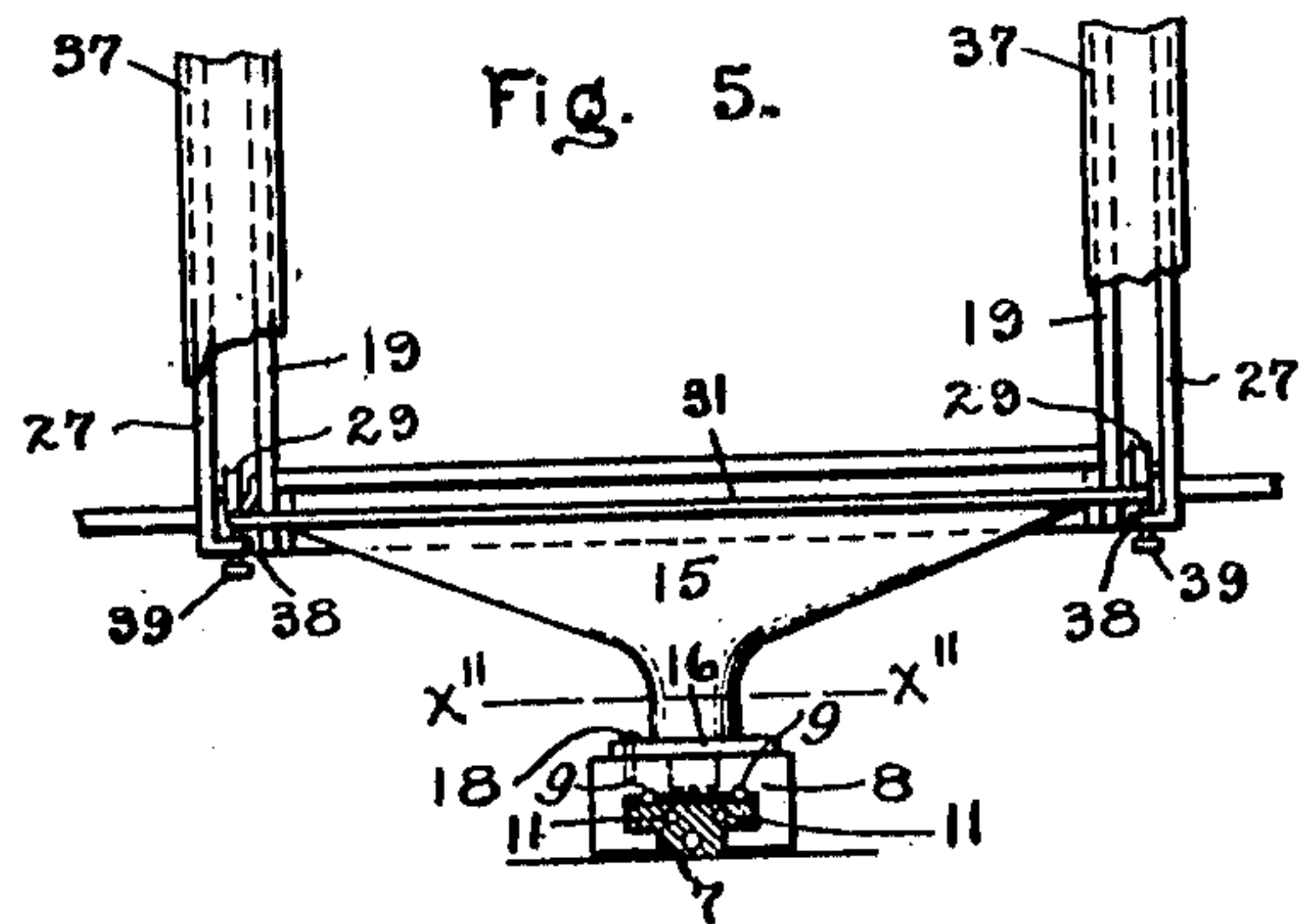


Fig. 6.

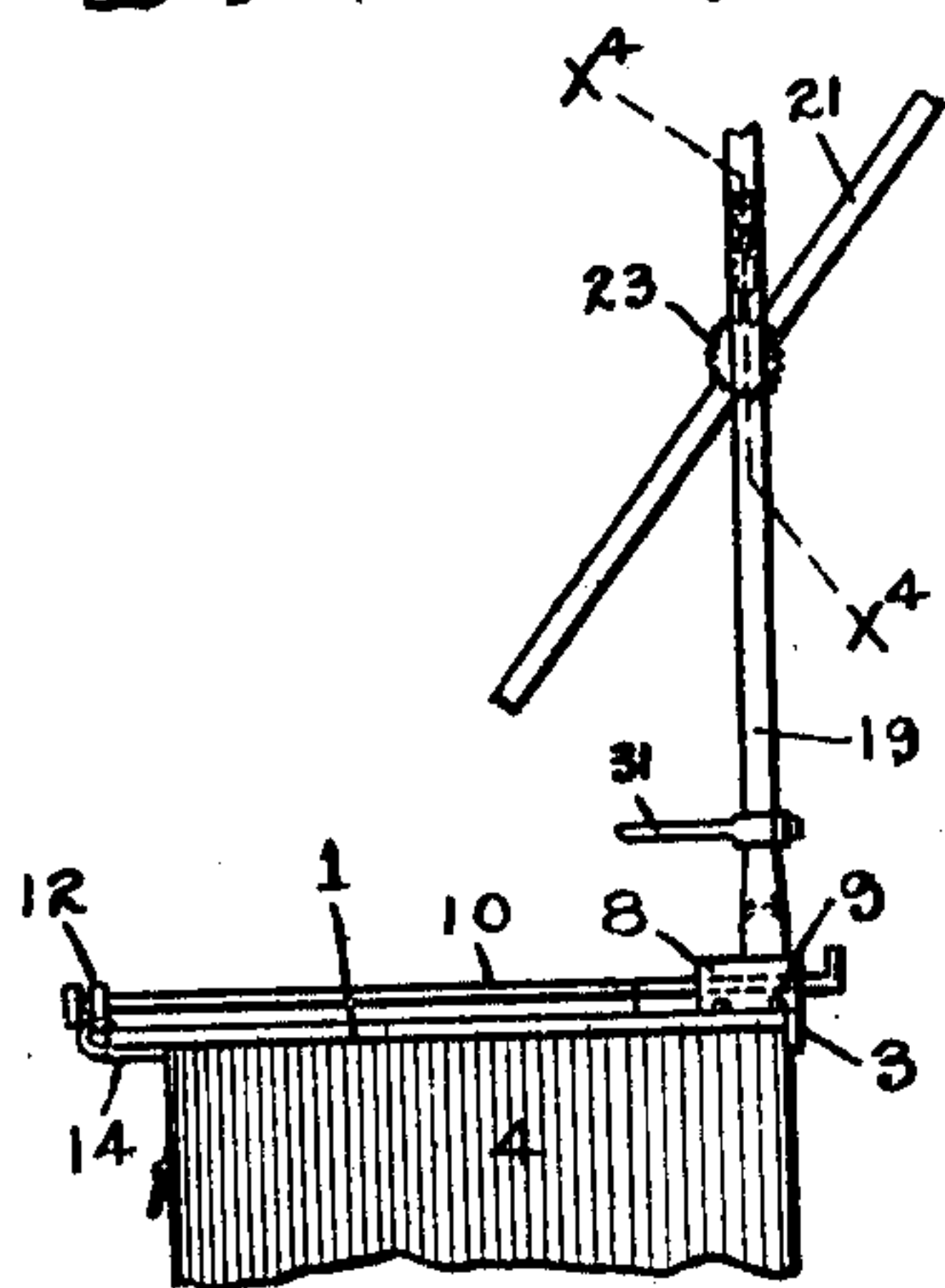


Fig. 7.

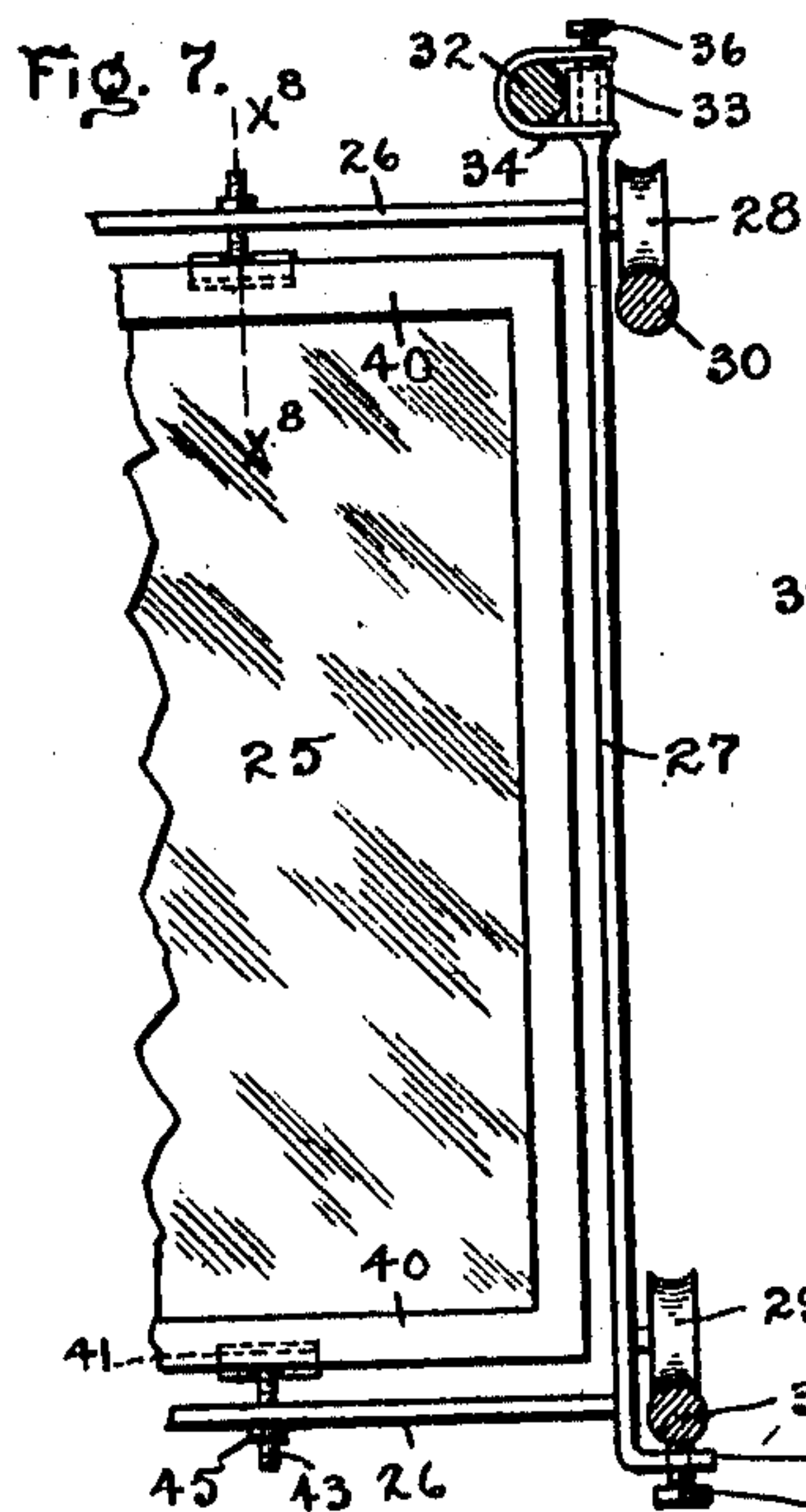


Fig. 10.

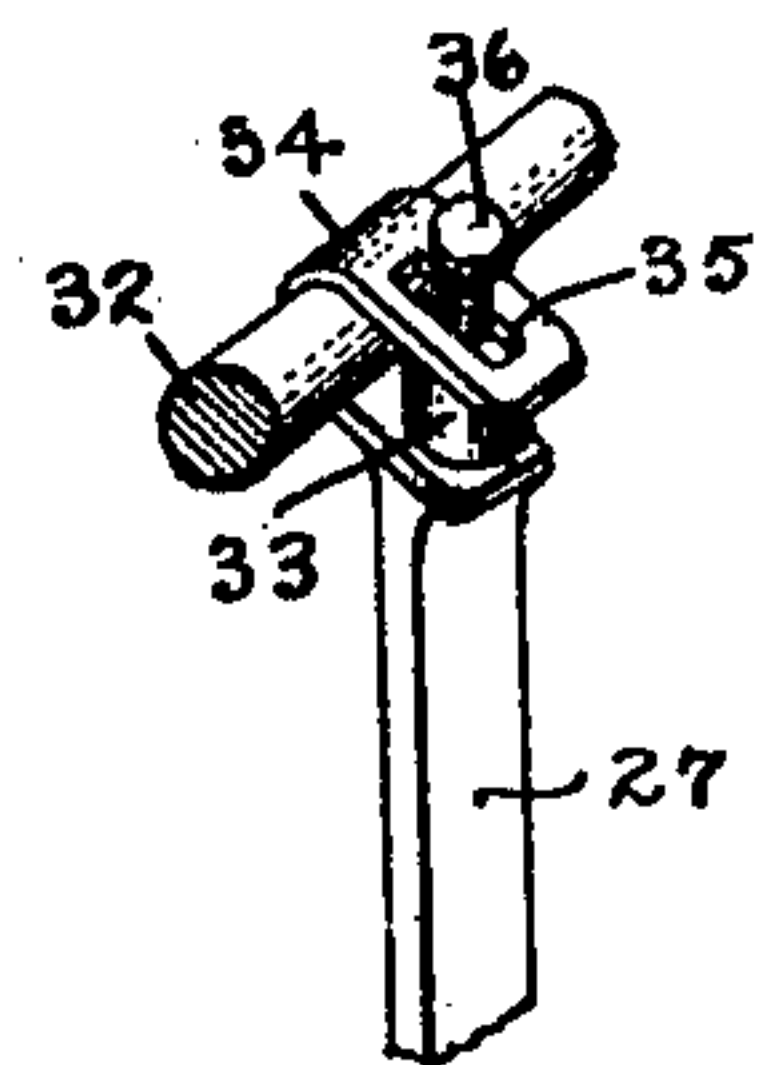


Fig. 8.

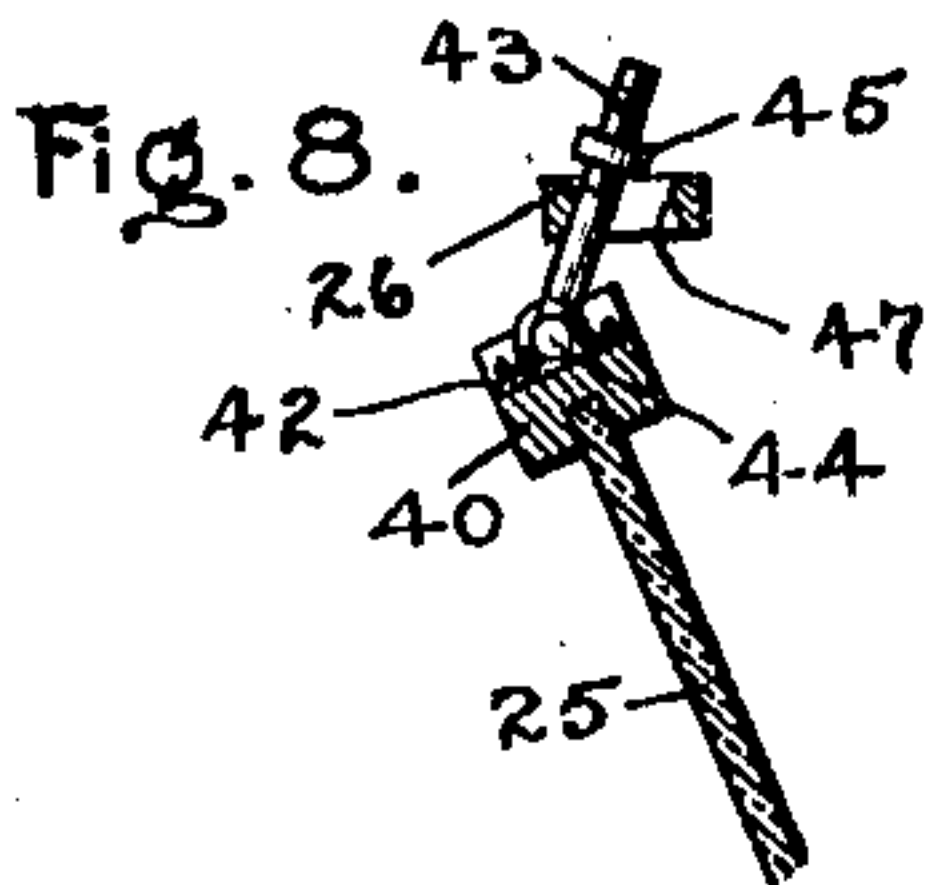
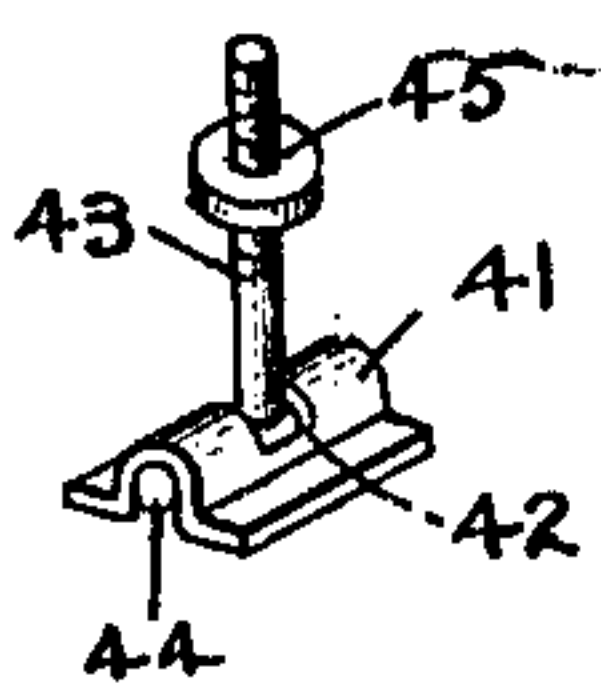


Fig. 9.



Witnesses:-

Lester H. Palmer.
Louis W. Gray.

Inventor:

Charles Lee Fitchet.

Wm. L. Hackett
att'y

UNITED STATES PATENT OFFICE.

CHARLES LEE FITCHET, OF SAN FRANCISCO, CALIFORNIA.

ADJUSTABLE MIRROR.

978,573.

Specification of Letters Patent.

Patented Dec. 13, 1910.

Application filed April 2, 1910. Serial No. 553,149.

To all whom it may concern:

Be it known that I, CHARLES LEE FITCHET, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented a new and useful Adjustable Mirror, of which the following is a specification.

This invention relates to a mirror which may be attached to a bureau, dressing table, shaving cabinet, or any place where an adjustable mirror is desired.

The objects of the invention are to enable the mirror to be adjusted into a great variety of positions, as will be hereinafter fully pointed out.

Referring to the drawings: Figure 1 is a perspective view of the upper portion of a bureau equipped with the invention. Fig. 2 is a front elevation. Fig. 3 is a section on line x^3-x^3 Fig. 2, showing the side mirrors adjusted into certain angular positions. Fig. 4 is a detail view on an enlarged scale taken in section on line x^4-x^4 Fig. 6. Fig. 5 is a front elevation of the main bracket and portions of the adjoining frames. Fig. 6 is a side elevation of what is shown in Fig. 2. Fig. 7 is a front elevation of part of one of the side mirrors, the upper supporting tracks and lower supporting track being in section. Fig. 8 is a sectional view in detail on an enlarged scale on line x^8-x^8 Fig. 7. Fig. 9 is a perspective view of the swiveled bolt. Fig. 10 is a perspective view of the spring clamp. Fig. 11 is a sectional view on line $x^{11}-x^{11}$ Fig. 5.

1 designates the top of the bureau, at the back of which are two upright panels 2, below which is an angle iron 3 which extends entirely along the back and covers the crack between the top 1 and body portion 4 of the bureau. The space 5 is formed at the center between the two top panels 2 and they are rounded at 6, as shown clearly in Fig. 2.

Projecting forwardly from the angle iron 3 is a T-rail 7, on which is slidably mounted a block 8, balls 9 being provided in the bottom face of the block 8 to roll on the T-rail 7, thus removing friction. An extension T-rail 10 is secured to the T-rail 7 and projects forwardly therefrom, being detachably secured to the T-rail 7 by dowel pins 11.

Secured to the front of the T-rail extension 10 is a block 12 detachably secured by dowel pins 13 to the extension 10. A wire 14 is secured to the block 12, is bent in the form of a U and bent around underneath

the projecting forward edge of the top 1, as clearly shown in Fig. 6, and serves to hold the front end of the extension 10 down in place.

Swiveled in the block 8 is a main bracket 15 having a flange 16 provided with a series of holes 17, as shown in Fig. 11, and a pin 18 may be inserted through either of the holes 17 and into the block 8 to hold the main bracket 15 in any desired angular position. Extending up from each end of the bracket 15 are side bars 19 which support a center mirror 20 having a frame 21 with pivots 22. The center mirror 20 may be adjusted to any angle in a vertical plane and detachably secured in such position by means of a toothed wheel 23 which is rigidly secured to the frame 21, a bolt 24 which is slidable on the bar 19 detachably locking the teeth of the toothed wheel 23. By moving the bolt 24 out of engagement with the toothed wheel 23, the central mirror may be swung in the desired position and after it has been adjusted the slide 24 is again moved into engagement with the toothed wheel to lock the mirror in position. The central mirror may also be moved bodily in a horizontal plane by sliding the block 8 and bracket 15 on the T-rails 7 and 10. If desired, the mirror may be moved to the extreme front of the bureau or it may be placed at any intermediate position between the extreme front and rear. The block 12 serves as a stop to prevent the block 8 from being accidentally moved off the front end of the T-rail 10. If the attachment is applied to a shaving cabinet or in some other position where the top board is not as broad as the board 1 of the bureau shown, the extension T-rail 10 may be detached from the T-rail 7, the block 12 detached from the rail 10 and applied to the rail 7 to serve as a stop for the block 8. In addition to the adjustment along the T-rails 7 and 10, the central mirror may also be turned in a horizontal plane by adjusting the swiveled bracket 15. This is accomplished by removing the pin 18, whereupon the bracket 15 carrying the mirror may be turned in either direction into any angular position desired, after which the pin 18 may be dropped into place to lock the bracket 15 in the position desired.

The bracket 15 in addition to carrying the center mirror also carries two side mirrors 25, each side mirror 25 being supported by

top and bottom bars 26 which project laterally from a bar 27, the latter having a grooved roller 28 at the top and a grooved roller 29 at the bottom which, respectively, rest on top and bottom tracks 30 and 31. Above the track 30 is another track 32, along which a roller 33 travels, the roller 33 being journaled against the upper end of the bar 27. A strap 34 is secured to the upper end of the bar 27 and extends around the track 32 and is provided with a slot 35, as shown in Fig. 10, and a thumb screw 36 passes through the slot 35 and into the top of the bar 27, so that by tightening the band 34 and screwing down the screw 36, the band 34 may be locked tightly on the track 32 and prevent the bar 27 from traveling. When the screw 36 is loosened, the band 34 is relaxed, which permits the bar 27 and attached parts to travel with its rollers 28 and 29 traveling on the tracks 30 and 31, while the roller 33 travels along the track 32, the strip 34 at such time preventing the bar 27 from jumping upwardly. The tracks 32 and 30, as clearly shown in Fig. 1, are supported at the upper ends of bars 19. A wide bar 37 is arranged in front of each pair of bars 19 and 27, as shown in Figs. 1 and 5, to conceal the bars 19 and 27 and improve the appearance of the device. Each bar 37 is loosely supported by the upper tracks 32 and 30 and lower tracks 31 and is slidable on all three tracks to enable the bar 27, which it conceals, to be moved on the track. The lower track 31 is supported by the bracket 15, as clearly shown in Fig. 1. The lower end of each bar 27 is bent underneath the track 31 to form a bracket 38 and a clamping screw 39 extends therethrough and is adapted to be screwed tight against the track 31 to hold the lower end of the bar 27 from moving, when desired.

40 designates the frame for each side mirror and each frame 40 is supported by means of a pair of swiveled bolts, one of which is shown in detail in Figs. 8 and 9, and comprises a socket 41 which is secured to the frame 40, being sunken therein and having a segmental slot 42 through which a bolt 43 extends, the bolt 43 having a T-head 44 which is journaled in the socket 41.

45 is a nut on the bolt 43.

The top and bottom bars 26 are slotted in the outer half of their length at 46, as clearly shown in Fig. 3, and, as shown in Fig. 8, each slot is undercut and rounded as at 47. Each bolt 43 projects through the rounded slot 47. The construction is such that by tightening both nuts 45, the side mirror will be held in a vertical position, while, by loosening the top nut 45, as indicated in Fig. 8, the upper end of the mirror may be inclined either forwardly or rearwardly, the lower end of the mirror hinging in the lower socket 41. If desired, the upper end of the

mirror may be held stationary and the lower end of the mirror may be swung forwardly or backwardly by loosening the nut 45 on the lower bolt, or, obviously, the upper end or lower end may both be adjusted forwardly or rearwardly. In addition to this adjustment of each side mirror, the mirror may also be adjusted bodily along the tracks 30, 31 and 32 by loosening the clamping screws 36 and 39. It is possible to move the side mirrors forward and then toward the center on these tracks and to adjust them into any angular position desired with respect to the center mirror 20. In Fig. 3, the drawing indicates how it is possible to adjust the side mirror, the left hand mirror being shown tilted at an angle and at the inner end of the slot and the right hand mirror having been moved bodily forward a certain distance and then adjusted at a slight angle to the center mirror. It is obvious that each side mirror may be revolved completely with respect to its supporting bars 26 and that by moving the bracket 15 along the T-rail, all three mirrors may be bodily moved forward or backward. By this construction I am thus enabled to adjust the respective mirrors into an endless variety of relative positions whereby the light may be reflected or the view presented as desired. In addition to this forward and back movement, all three mirrors may also be adjusted in a circle of which the pivot of the bracket 15 is the center, this adjustment being permitted by means of the removable pin 18.

What I claim is:

1. A horizontal rail adapted to be secured to the furniture, a slide on said rail, a bracket swiveled in said slide, vertical bars carried by said bracket, two U-shaped tracks projecting forwardly from the upper ends of said side bars and a U-shaped track projecting forwardly from the bottom ends of said side bars, a mirror carried by said vertical bars and a mirror on each side of the central mirror, and means mounted to travel on said tracks for supporting each side mirror.

2. A horizontal rail adapted to be secured to the furniture, a slide on said rail, a bracket swiveled on said slide, a central mirror supported by said bracket, means for adjusting the central mirror into various angular positions in a vertical plane, and side mirrors supported on each side of the central mirror.

3. A horizontal rail adapted to be secured to the furniture, a slide on said rail, a bracket swiveled on said slide, a central mirror supported by said bracket, means for adjusting the central mirror into various angular positions in a vertical plane, side mirrors supported on each side of the central mirror, and means permitting adjustment of each side mirror into various angular positions in a vertical plane.

4. A horizontal rail adapted to be secured to the furniture, a slide on said rail, a bracket swiveled on said slide, a central mirror supported by said bracket, means for
5 adjusting the central mirror into various angular positions in a vertical plane, side mirrors supported on each side of the central mirror, a plurality of tracks extending forwardly at each side of the central mirror,
10 and means adapted to travel on said tracks for supporting each side mirror.

5. A T rail adapted to be secured to the furniture, an extension of the T rail, dowel pins for detachably securing the extension
15 to the first named rail, a slide adapted to slide on said T rail and its extension, a block on the end of the extension to retain the slide, means for securing the block to the front edge of the top of the furniture, a
20 bracket swiveled on the slide, a central mirror supported by the bracket, and side mirrors supported by the bracket.

6. An angle iron adapted to be extended along the rear edge of the furniture, a T
25 rail extending forwardly from said angle iron and being provided with a detachable extension, a slide on said T rail, a bracket swiveled in said slide, a central mirror adjustably mounted above said bracket, and
30 side mirrors supported by and adjustably mounted with respect to said bracket.

7. A rail adapted to be secured to the furniture, a slide on said rail, a bracket swiveled on said slide, said bracket having
35 a flange with a series of perforations, a pin extending into said slide and adapted to engage in either of said perforations, a central mirror supported by said bracket, and side mirrors supported by said bracket.

40 8. A rail, a slide on said rail, a bracket swiveled on said slide, vertical bars extending above said bracket, a pair of rails projecting forwardly from the upper end of said vertical bars, said rails being offset and
45 lying in two different vertical planes, a vertical bar 27, a roller journaled on said bar 27 near each end thereof and riding on two of said rails, a roller journaled on the upper end of said bar 27 and riding against
50 the side of the uppermost rail, lateral arms 26 projecting from the bar 27, and a mirror supported by said lateral bars.

9. A rail, a slide on said rail, a bracket swiveled on said slide, vertical bars extending
55 above said bracket, a pair of rails projecting forwardly from the upper end of said vertical bars, said rails being offset and lying in two different vertical planes, a vertical bar 27, a roller journaled on said bar
60 27 near each end thereof and riding on two of said rails, a roller journaled on the upper end of said bar 27 and riding against the side of the uppermost rail, lateral arms 26 projecting from the bar 27, and a mirror
65 supported by said lateral bars, a U-shaped

strap at the upper end of the bar 27 and circling the track 32, said strap having a slot and a thumb screw extending through said slot into the upper end of the bar 27 for tightening the strap against the rail 32. 70

10. A rail, a slide on said rail, a bracket swiveled on said slide, vertical bars extending above said bracket, a pair of rails projecting forwardly from the upper end of said vertical bars, said rails being offset and
75 lying in two different vertical planes, a vertical bar 27, a roller journaled on said bar 27 near each end thereof and riding on two of said rails, a roller journaled on the upper end of said bar 27 and
80 riding against the side of the uppermost rail, lateral arms 26 projecting from the bar 27, and a mirror supported by said lateral bars, the lower end of the bar 27 being offset to form a bracket, and a thumb
85 screw in said bracket adapted to be clamped against the track 31.

11. A rail adapted to be secured to the furniture, a slide on said rail, a bracket swiveled on said slide, vertical bars extending
90 above said bracket, a central mirror, a toothed wheel rigidly secured at one side of the mirror, and a sliding bolt on one of said vertical bars adapted to detachably engage said toothed wheel. 95

12. A rail, a slide thereon, a bracket swiveled on the slide, a pair of vertical arms extending above the bracket, arms 26 extending laterally from the vertical arms, the arms 26 having slots 46, a side mirror
100 supported between each pair of lateral arms 26, a bolt having a T head pivotally secured at each end of the side mirror, each bolt extending through one of said slots, and a nut on each bolt for adjustably securing the same
105 to the slotted arm, the walls of each slot being beveled to permit the bolt to tilt in the slot.

13. In an adjustable mirror, a pair of upper U-shaped tracks, a lower U-shaped
110 track, vertical bars extending between the upper and lower tracks, a central mirror pivoted on a horizontal axis to said vertical bars, a mirror on each side of the central mirror, horizontal bars supporting the re-
115 spective side mirrors, vertical bars rigidly secured to the respective horizontal bars, a roller carried near each end of the second named vertical bars and riding on the upper and lower tracks, a vertical roller on the
120 upper end of the last named vertical bar and riding against the uppermost track, the side mirrors being pivoted on a vertical axis to the horizontal bars.

14. In an adjustable mirror, a pair of
125 upper U-shaped tracks, a lower U-shaped track, vertical bars extending between the upper and lower tracks, a central mirror pivoted on a horizontal axis to said vertical bars, a mirror on each side of the central
130

mirror, horizontal bars supporting the respective side mirrors, vertical bars rigidly secured to the respective horizontal bars, a roller carried near each end of the second
5 named vertical bars and riding on the upper and lower tracks, a vertical roller on the upper end of the last named vertical bar and riding against the uppermost track, the
10 side mirrors being pivoted on a vertical axis to the horizontal bars, and means for adjusting the pivotal supports of the side mirrors to permit the side mirrors to be
adjusted into various angles in a vertical plane.
15 15. An upper track, a lower track, a mirror on each side of said tracks, supporting means for each mirror carried by said tracks
and adapted to travel along the tracks to move each mirror into various positions,
20 each mirror being pivoted to its supporting

means, a central mirror between the side mirrors, said central mirror being swiveled.

16. An upper track, a lower track, a mirror on each side of said tracks, supporting means for each mirror carried by said tracks
25 and adapted to travel along the tracks to move each mirror into various positions, each mirror being pivoted to its supporting means to swing in a horizontal plane, a
central mirror between the side mirrors, said
30 central mirror being swiveled to adjust in a vertical plane.

In testimony whereof, I have hereunto set my hand at Los Angeles, California, this
28th day of March, 1910.

CHARLES LEE FITCHET.

In presence of—

G. T. HACKLEY,

FRANK L. A. GRAHAM.