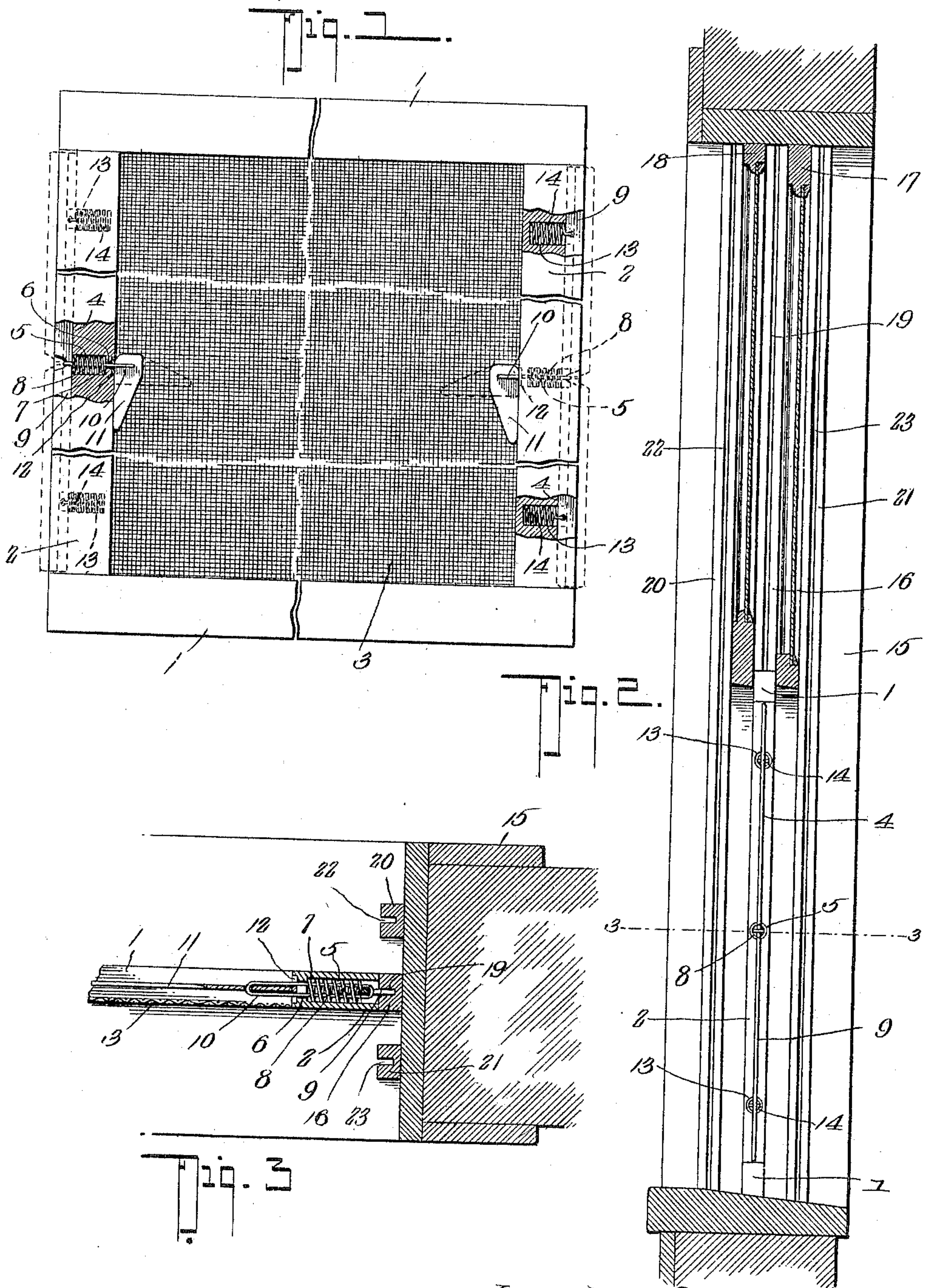


No. 817,461.

PATENTED APR. 10, 1906.

J. W. ADAMS.
WINDOW SCREEN.

APPLICATION FILED JULY 18, 1905.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH WALTER ADAMS, OF PASADENA, CALIFORNIA.

WINDOW-SCREEN.

No. 817,461.

Specification of Letters Patent.

Patented April 10, 1906.

Application filed July 18, 1905. Serial No. 270,201.

To all whom it may concern:

Be it known that I, JOSEPH WALTER ADAMS, a citizen of the United States, residing at Pasadena, in the county of Los Angeles and State of California, have invented a new and useful Window-Screen, of which the following is a specification.

This invention relates to window-screens, and has for its object to provide a screen which may be used outside, inside, or between the sashes of a window and readily and conveniently changeable from one such position to another.

A further object of the invention is to provide a screen having a retaining-strip which may be easily drawn into the screen-frame for removal from the window and retained therein for storage, transportation, and the like.

It is well known that it at times becomes desirable to change the position of a screen by covering either the upper or lower half of a two-sash window, and it is a further object of this invention to provide a screen which may be mounted inside, outside, or between the sashes and conveniently changed from one such position to either of the other and when in either such position to be moved vertically to cover either the upper or lower sash opening or to be stored during inclement weather inside and adjacent the upper sash and not interfere with the ready manipulation of the lower sash.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportions, size, and minor details may be made without departing from the spirit or sacrificing any of its advantages.

In the drawings, Figure 1 is a view of the improved screen in side elevation, partly broken away to show the operation of the strips. Fig. 2 is a vertical sectional view of the window with the improved screen in operative position between the sashes and screen in end elevation. Fig. 3 is a transverse sectional view of the improved screen and a window-casing, taken on line 3 3 of Fig. 2.

Like characters of reference designate corresponding parts throughout the several views.

In its preferred embodiment the improved screen forming the subject-matter of this application comprises a substantially rectangular frame composed of the upper and lower frame-pieces 1 1 and the side pieces 2 2, covered in the usual manner with the wire fabric 3. Along the outer vertical edge of each piece 2 is formed a furrow 4, extending throughout all or a portion of its vertical length. At one or more points is formed a transverse socket 5, extending part way through the frame and continued through by a smaller hole 6, forming an annular shoulder 7. Within the socket 5 is disposed a spring 8, bearing against the shoulder 7. A strip 9, preferably of metal, is provided, dimensioned to substantially fill the furrow 4 and is engaged by a link 10, extending through the socket 5 and hole 6 and beyond the edge of the frame. To the inner end of the link 10 is pivoted an eccentric 11, bearing against the inner surface of the frame, or a wear-plate 12 may be countersunk in the frame as a contact-surface for the eccentric.

If found desirable, additional sockets 13 may be formed and auxiliary springs 14 disposed therein to assist spring 8.

For cooperation with the screen a window-casing, as 15, is provided with a vertical strip 16, preferably between the upper and lower sashes 17 18 and having formed longitudinally thereof a groove 19. It is also desirable to provide auxiliary inside and outside strips 20 and 21, having similar grooves 22 and 23.

From the foregoing it will be understood that the strips 9 when in the extended position, as shown in Fig. 3 and in dotted position in Fig. 1, engage the groove 19 and secure the frame against lateral displacement, while permitting of longitudinal movement, and that the tension of the spring 8 and the auxiliary spring 14 if used will hold the strip 9 so firmly within the groove 19 as to hold the screen at a desired vertical adjustment. The screen may be moved by rotating the eccentrics 11 to the position shown in Fig. 1 and may then be engaged with the inner groove 22 on the outer groove 23, or with the strip thus drawn wholly within the furrow 4 is in condition for storage or transportation without danger of damage to the strip.

Having thus described the invention, what is claimed is—

1. The combination with a window having a vertical groove, of a screen-frame, having a

furrow along its vertical edge, a rigid strip mounted in the furrow and engaging within the groove of the window, a spring within the screen-frame arranged to hold the strip normally in engagement with the groove, a link engaging the strip and extending transversely through the screen-frame, a cam engaging the link and the face of the screen-frame and means whereby the cam may be manipulated to draw the strip out of the groove and retain it wholly within the furrow of the screen.

2. A window-screen comprising a frame having furrows formed along its opposite vertical edges, a rigid strip mounted and laterally movable within each furrow and with a longitudinal edge protruding normally be-

yond the lines of the frame, a spring mounted in the frame and exerting pressure against the inner edge of the strip, a link connected with the strip and extending transversely through the frame and an eccentric connected with the link and extending opposite the strip and arranged upon manipulation to draw and hold the strip wholly within the furrow and against the tension of the spring.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOSEPH WALTER ADAMS.

Witnesses:

SAMUEL WEIGHT,
MILTON J. BEARDSLEY.