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ADJUSTABLE WINDOW SCREEN

Filed June 12, 1924

2 Sheets-Sheet 1

Fig. 1.

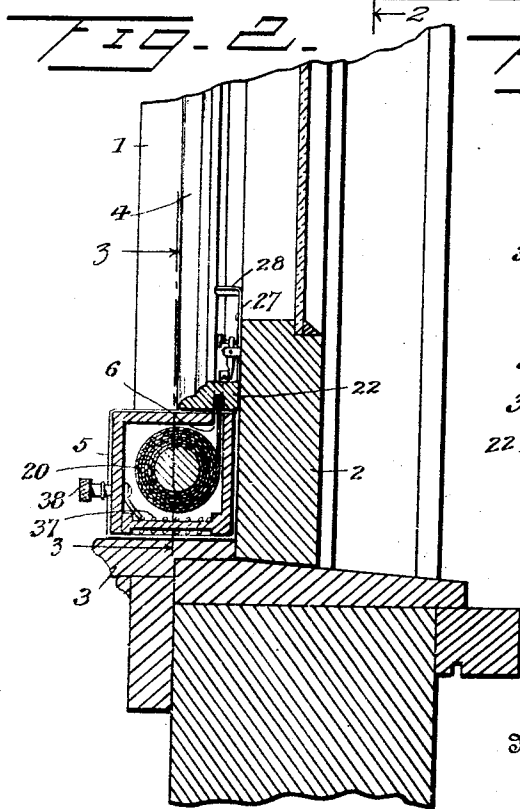
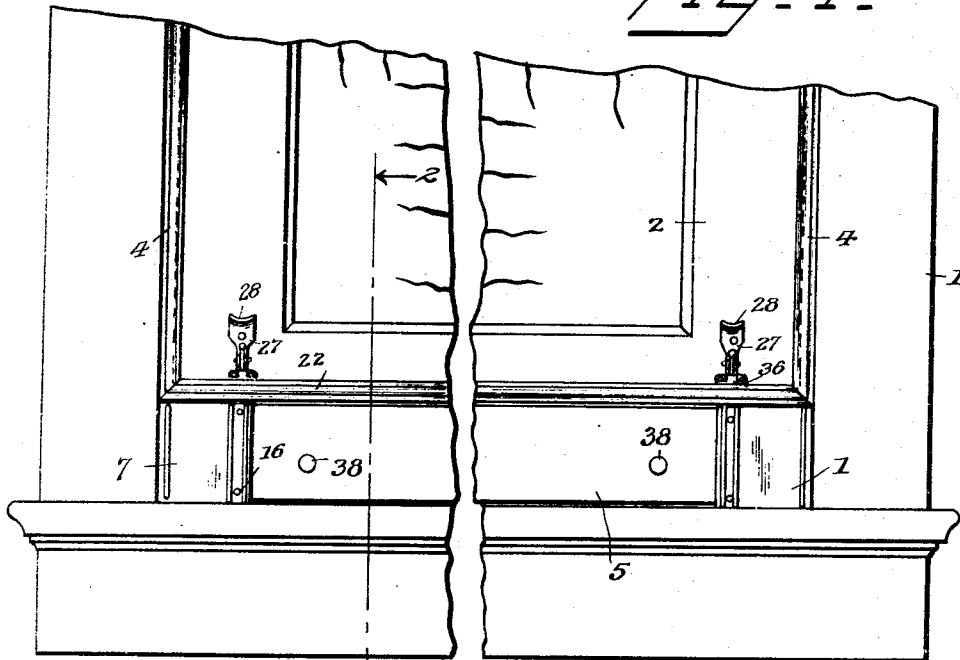


Fig. 7. Fig. 8.

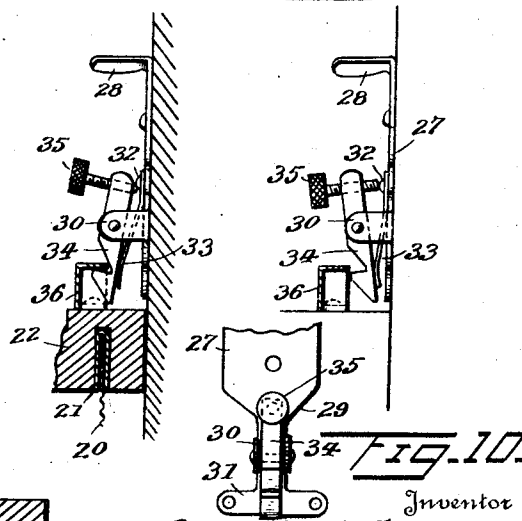


Fig. 10.

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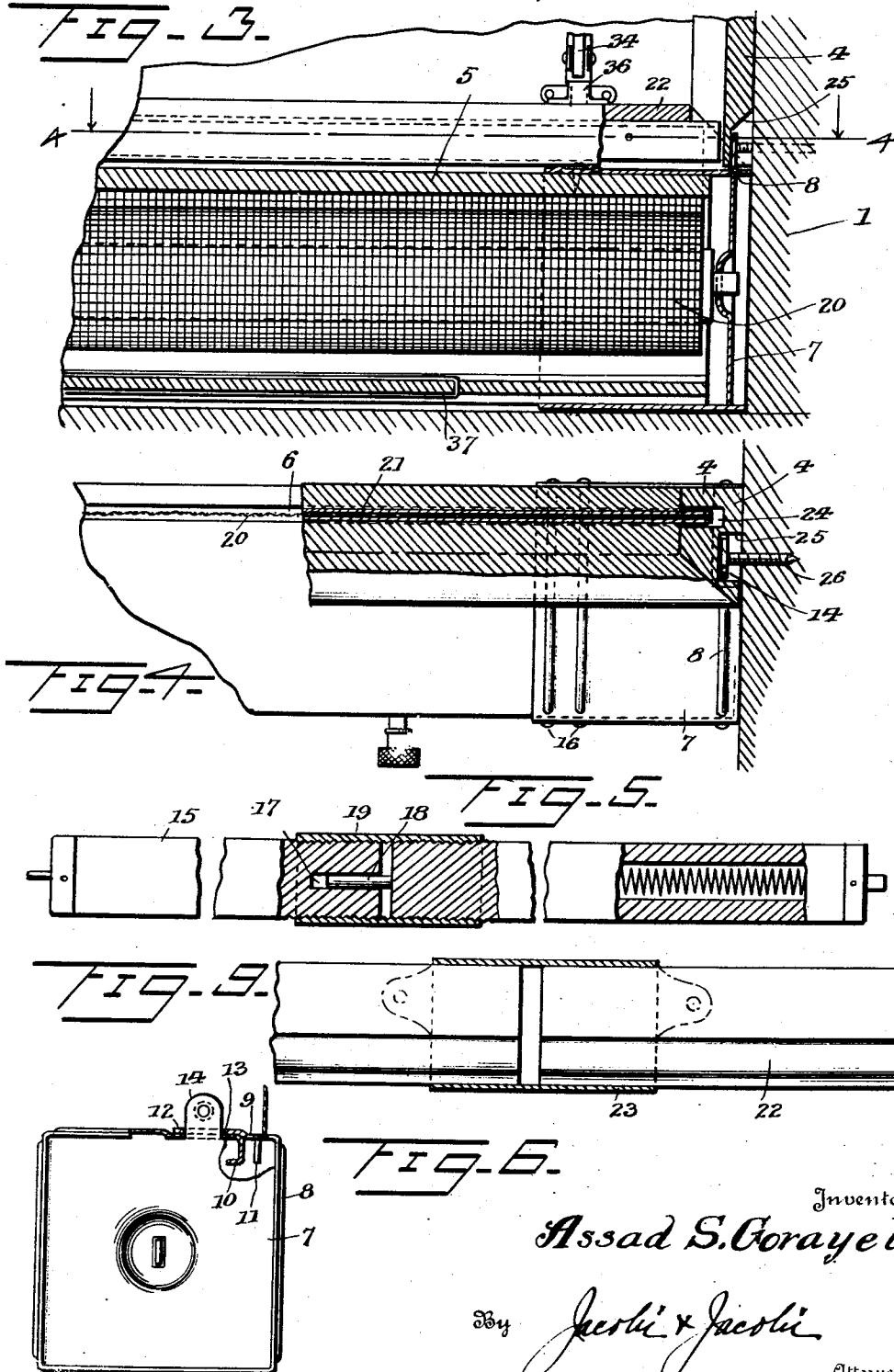
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

ASSAD S. GORAYEB, OF NEW YORK, N. Y.

ADJUSTABLE WINDOW SCREEN.

Application filed June 12, 1924. Serial No. 719,676.

To all whom it may concern:

Be it known that ASSAD S. GORAYEB, a subject of the Republic of Assyria, residing at New York, in the county of New York and State of New York, has invented certain new and useful Improvements in Adjustable Window Screens, of which the following is a specification.

This invention relates to new and useful improvements in window screens and more particularly to a screen of the adjustable type, the primary object of the invention being to provide a portable screen for application to a window frame or casing and further adapted to be engaged with the sash and operable therewith.

A further object of the invention resides in providing a rolling screen carried in a frame or casing, the casing and screen and other parts connected therewith being capable of longitudinal adjustment to be fitted in window frames or casings of various sizes.

Still another object of the invention resides in the provision of an improved snap latch carried on the window sash adapted for engagement with the screen whereby the latter may be operated with said sash.

A still further object resides in providing improved end boxings on the frame carrying the rolling screen which boxings are capable of adjustment longitudinally and which are adapted to be secured in the sides of the window casing.

Still another object resides in providing a device which is simple and durable in construction, comparatively inexpensive to manufacture and one which will be very efficient and useful in operation.

With these and other objects in view my invention consists in the novel features of construction, the combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claims.

In the accompanying drawings forming a part of this application,

Figure 1 is a fragmentary front elevation of a window showing my improved device applied to use thereon.

Figure 2 is a vertical section therethrough as seen on the line 2—2 of Fig. 1.

Figure 3 is a vertical section as seen on the line 3—3 of Fig. 2.

Figure 4 is a horizontal section as seen on the line 4—4 of Fig. 3, looking in the direction of the arrows.

Figure 5 is an elevation partly in section showing the construction of the adjustable roller.

Figure 6 is an end elevation of one of the boxings carried on the casing, with parts broken away and parts disclosed in section.

Figure 7 is an enlarged vertical section showing the snap latch in its effective engaging position with the engaging element on the screen.

Figure 8 is a similar view showing the snap latch in its disengaged position.

Figure 9 is a fragmentary plan, with parts in section showing the adjustable construction of the molding attached to the end of the rolling screen, and

Figure 10 is a fragmentary plan view of the snap latch removed.

In describing the invention I shall refer to the drawings, in which similar reference characters designate corresponding parts throughout the several views, and in which 1 designates a window frame or casing in which is slidably mounted the usual sash 2. The sill of the frame is designated by the numeral 3 and the side vertical moldings in the frame or casing 1 are represented by the numeral 4.

In carrying out my invention, I provide an elongated portable casing 5 which is designed rectangular in cross-section and preferably constructed so that the top and front walls are integral and the rear and bottom walls are integral. The bottom wall is secured to the front wall in any preferred manner so that the device when set up will be firm and rigid but other end securing means are provided to more firmly retain the walls together, as will appear herebelow. The top wall is slightly narrower than the bottom wall so that a slot 6 is provided between the rear wall and said top wall through which the rolling screen may be drawn, as will also appear from the following description.

The casing 5 is preferably constructed of wood, but may be made of any other desired material, and the ends have adjustably secured thereto metal end boxings 7. These boxings have their side, top and bottom walls stamped from a single sheet of material and the end walls of the boxings are held therebetween in beads or the like 8 formed in the walls of the blank from which the boxing is constructed, as appears ob-

vious from the showing illustrated in Fig. 3. In forming the blank in a rectangular design to fit over the end of the casing 5 a slot 9 is formed to register with the slot 6 in the casing 5. The one edge of the top wall adjacent the slot 9 is bent downwardly as shown at 10 to cover the edge of the top wall of the casing and the other edge of the blank forming the boxing is bent down as shown at 11 to cover the upper edge of the rear wall of the casing, as clearly shown in Fig. 6. The last mentioned end of the blank forming this boxing is provided with a projection 12 which has a slot 13 therein adapted to receive therethrough an upstanding lug or the like 14 formed integral with the end wall of the boxing. A slot similar to that numbered 13 is also formed in the top wall of the blank to register with the slot 13 so that the lug 14 projects through two slots of the ends of the boxing blank and in this way the end wall of said boxing is held in position between the other walls thereof. This construction is clearly shown in Fig. 6. The end walls of the boxings are provided with the usual openings to receive therein the ends of a roller 15. These boxings 7 are adapted to be secured to the walls of the casing 6 by means of small screws 16 and are obviously capable of adjustment laterally on the casing by the removal of the screws. Window frames vary in width only a few inches and it is quite obvious that the end boxings may be adjusted the necessary number of inches so that the casings 5 may be readily applied to window frames of various sizes.

The roller 15 is of the spring type and is formed preferably of two sections, one of the sections being provided with a central socket 17 and the other with a pin 18 fitting in said socket. The ends of these two sections of the roller, which is preferably formed of wood, are held together by means of an internally threaded metal sleeve 19. It is obvious through the medium of this construction the roller may be adjusted to various lengths according to the adjustment required of the casing.

A wire or net screen 20 is rolled on the roller 15 and is adapted to be drawn through the slot 6 in the casing 5. The end of the screen 20 is secured through the medium of an inverted U-shaped metal strip 21 to a molding 22. This molding is also formed in two sections secured centrally together by means of a metallic sleeve or the like 23. It is obvious through this construction that the molding may also be adjusted longitudinally according to the adjustment of the casing and roller to fit window frames of various sizes.

The casings 5 are adapted to be placed in the window frames so as to be seated on the sills between the side moldings 4. These

side moldings are preferably provided with vertical slots 24 in which are secured the ends of the strip 21. The outer opposed faces of the lower ends of the moldings 4 are cut away, as shown at 25, to receive therein the upstanding lugs or ears 14 on the end boxing 7 and these ears or lugs 14 are provided with openings through which may be projected securing screws 26. The heads of these screws are countersunk and the casing 5 may thus be readily secured in position in the window frame. The molding 22 is thus guided in its vertical movement in the window frame, and I have provided an improved means for the engagement of the sash with the molding 22, so that the screen may be operated with the movement of the sash.

Secured to the window sash adjacent the lower edge thereof are snap latches. These snap latches each comprise a base plate 27, the upper end of which is bent laterally and dished to form finger pieces 28. The plate is cut away adjacent its lower end as shown at 29 and has struck up therefrom in the cut out portions a pair of upstanding parallel ears 30. The lower end is in T-formation as shown at 31 and is provided with openings whereby the plate may be secured to the sash. An additional opening is provided in the upper portion of the plate to also secure the plate to the sash. Riveted or otherwise secured to the plate as shown at 32 is a leaf spring 33, which leaf spring projects between the ears 30 and is bent upwardly and outwardly. Pivoted between the ears 30 is a latch member 34, the upper end of which is provided with a threaded opening through which extends a thumb screw 35. The action of the spring 33 normally tends to hold the lower engaging portion of the latch member 34 in outward or effective engaging position and by turning home upon the thumb screw 35 the end of said screw will contact with the rivet heads 32 to swing the latch member on its pivot against the tension of the spring 33 thus disposing said latch member to its ineffective and disengaged position.

Secured to the upper face of the molding 22 are the box-like engaging elements 36. These elements are formed from a single blank of material and have lateral ears formed thereon through the medium of which they may be readily secured to the molding 22. These engaging elements are adapted to receive in contact therewith the latch members 34. When the screws 35 are withdrawn to a position as shown in Fig. 7 the latch member 34 will automatically engage the members 36 when the sash is lowered so that when said sash is raised the screen will be carried therewith. When it is not desired to carry the screen with the sash it is only necessary to turn the screws 35 to a position as shown in Fig. 8.

I have also found it possible to utilize my improved screen apparatus as a portable antenna for radio receiving sets. To this end, the bottom wall of the casing 5 is slotted and wire 37 is wound therearound. The showing of this is clearly illustrated in Figs. 2 and 3 of the drawings. This wire connects with posts 38 so that the radio apparatus may be connected therewith quite readily.

From the foregoing description of the construction of my improved device the operation thereof will be readily understood and it will be seen that I have provided a simple, efficient and effective means for carrying out the objects of the invention.

While I have particularly described the elements best adapted to perform the functions set forth, it is obvious that various changes in form, proportion, and in the minor details of construction may be resorted to, without departing from the spirit or sacrificing any of the principles of the invention.

Having thus described my invention what I claim is:

1. In a portable screen, a casing designed rectangular in cross-section provided with a slot in the top wall thereof, rectangular end boxings adjustably secured to the ends of said casing, the top walls of said boxings being provided with longitudinal slots registering with the slot in said casing, the top walls of said boxings being also provided with transverse slots, end walls applied to said boxings having upstanding ears formed

thereon projecting through said transverse slots and affording means whereby the same may be secured to a structure, an adjustable roller supported between the aforesaid end walls of the boxings, a screen rolled on said roller and disposed through the slot in the top wall of said casing, and an adjustable molding secured to the end of said screen and adapted to normally rest on said top wall of the casing, as and for the purposes described.

2. In a portable screen, a casing designed rectangular in cross section provided with a slot in the top wall thereof, metal end boxings adjustably secured to said casing, said boxings comprising a blank bent to form side, top and bottom walls, the top wall being also provided with a slot registering with the slot in said casing, portions of the blank being overlapped on the top wall and having registering slots therein, an end wall secured between the walls of the blank and provided with upstanding ears disposed through the aforesaid registering slots and affording means whereby the same may be secured to a structure, an adjustable roller supported between the end walls of said boxings, a screen rolled on said roller and disposed through the slot in the top wall of said casing, and an adjustable molding secured to the end of said screen and adapted to normally rest on the top wall of said casing.

In testimony whereof I affix my signature.

ASSAD S. GORAYEB.