C. O. TESSIER.

FLY SCREEN FABRIC HOLDER.

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1,254,865.

Patented Jan. 29, 1918.

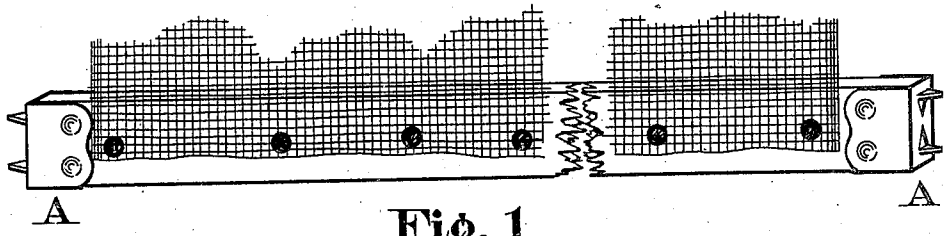


Fig. 1

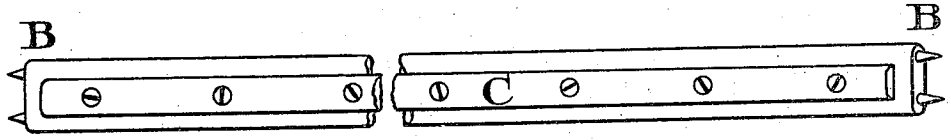


Fig. 2

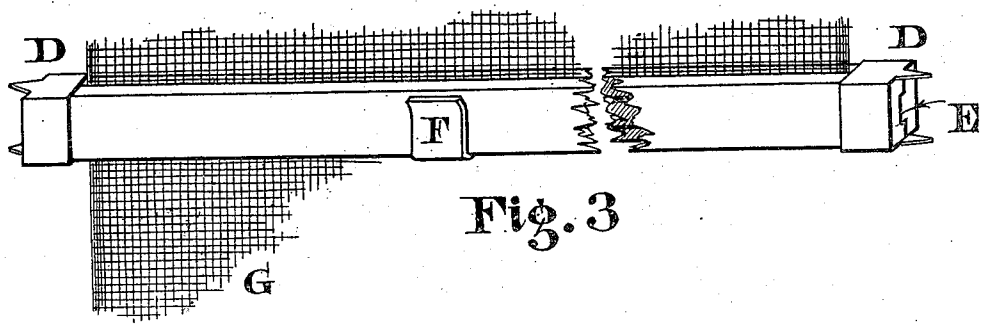


Fig. 3

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FLY-SCREEN-FABRIC HOLDER.

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Application filed September 7, 1915. Serial No. 49,325.

To all whom it may concern:

Be it known that I, CHARLES O. TESSIER, a citizen of the United States, and a resident of White Plains, county of Westchester, and State of New York, have invented a new and useful Fly-Screen-Fabric Holder, of which the following is a specification.

My invention relates to that class of devices known as fly-screens and has for its object the production of a device which can be manufactured and sold at very low cost to supply the popular demand for the cheapest possible screen, may be readily placed in position and removed, and is effective and secure when in the required position. To these ends my invention lies in the combination of flexible wood or metal bars suitably adapted to hold the ends of the screening fabrics or, when the space to be screened is of excessive length, to support the same at the middle and ends thereof, with holding prongs adapted to enter the side frame members of the window casings or with other suitable means adapted, by reason of the tendency of the bars to exert an endwise pressure after they are bowed and sprung into place, to retain such wood or metal bars in any required position.

I do not wish to be understood to claim as my invention the general type of window screens having no side members, for I am aware of prior patents wherein are described top and bottom holding bars provided with spring or screw extension means for the purpose of holding them in position between the window casings, and other like holding-bars held in place by screw hooks and supports; all of which are open to the objection of poor appearance, undue cost, complexity, or unavoidable interference with outside window shutters or blinds. I do, however, intend to claim as my invention holding bars of any form or construction which are adapted to be bowed and then sprung into place and thereafter held in place by the endwise pressure of the sprung bars, acting through the medium of suitable end attachments or connections to the window casings.

Figure 1 shows a simple wooden holder-bar of rectangular cross section provided with attached stamped metal end prong pieces; Fig. 2 shows a metal holder-bar with integral end prongs, and Fig. 3 shows a holder-bar consisting of two flexible strips so formed upon their opposed faces that the screen fabric is securely held between them, either with or without a middle clip hereinafter more particularly described, and also having end prong stampings.

These drawings, Figs. 1, 2 and 3, show variant types of holder-bars embodying the essential feature of my invention but in no wise limiting the scope thereof, as it will be readily understood that the invention includes any suitable construction of flexible bars adapted to be sprung into place and to hold the screen fabrics only at the ends thereof or at the ends and middle point; such bars of wood or metal having attached or integral prongs adapted to enter the window casings, or having any other end retaining devices not adapted to be usable as means to vary the lengths of the bars, which bars in my invention are to be fitted to the window openings by cutting to the required lengths if not originally of the exact length required.

Fig. 1 shows the simplest form of my invention, provided with simple sheet metal prongs A A at the ends thereof, adapted to be bowed or sprung sidewise to an extent sufficient to allow placing in any desired position, whereupon the straightening of the bar holds it firmly in place. The bar shown in this figure is formed of wood and has the attached end prong pieces of metal clipped on, the fabric being simply tacked to the wooden bar.

Fig. 2 shows a metal bar having integral prongs B B and with a separable fabric retaining strip C suitably attached thereto.

Fig. 3 shows another form of my invention wherein the flexible bar is formed of two strips which have their opposed faces grooved as shown at E, or otherwise adapted to hold screening material placed between them. These strips are provided with suitable means D D at the ends, adapted to hold the bar in position between the side casings of the window and to hold the ends of the two strips together. This form of my invention is preferably provided near the middle point with a clip F or other suitable means adapted to maintain the juxtaposition of the strips and their consequent grip upon the screening material between them. It will of course be understood that the form of my invention shown by Fig. 3 is adapted to be used at the middle of the length of a long screen as suggested in the drawing at G, and that in that case the middle clip F

may be omitted. It will further be understood that the bars shown by Fig. 2 and Fig. 3 are also not adjustable in length but are to be individually cut to any required dimension as described for Fig. 1.

I have fully described my invention and a number of variant forms thereof all within the scope of the statement of the objects of the invention hereinabove set forth, but as the invention would be incomplete and ineffective for the purpose for which it was designed, namely, the screening of window openings, without the screening fabric which the bars are adapted to hold at both ends or at both ends and the middle point thereof, I have therefore included the said fabric as an element in several of the specific combinations of elements hereinafter set forth as my invention.

I claim—

1. As a new article of manufacture, a window screen comprising in combination, the screening material and flexible screen fabric holder-bars adapted to be bowed and sprung into required position between the casings of the opening to be screened.

2. As a new article of manufacture, a window screen comprising in combination, the screening material, a fly-screen-fabric holder-bar flexible to such degree that it may be bowed and sprung into place between the casings of the opening to be screened, and means forming a part thereof adapted to retain the screen fabric upon the bar.

3. A fly-screen-fabric holder-bar comprising in combination a bar flexible as and for the purpose described, means by which the screen fabric may be attached to the bar, the screen fabric, and means at the ends of the bar, adapted, through the endwise pressure of the bowed bar, to hold the said bar in position between the casings of the opening to be screened.

4. A window screen comprising in combination the screen-fabric holder-bar, the said bar being flexible and bearing means adapted to retain the screen fabric, the said means adapted to retain the screen fabric, and pronged clips positioned at the ends of the bar and adapted to retain the bar in place and resist displacement by reason of the endwise pressure of the sprung bar acting thereupon.

5. A screen-fabric holder-bar consisting of a pair of flexible strips adapted to be sprung into place and suitably formed upon their opposed faces so as to hold the screen fabric when they are placed in juxtaposition, clips at the ends of the two strips adapted to hold them together, end prongs adapted to hold the strips in position between the casings of the opening to be screened, and means near the middle of the strips adapted to hold the pair of strips in contact with the screening material.

6. A screen-fabric holder-bar consisting of a pair of flexible strips adapted to be sprung into place and suitably formed upon their opposed faces so as to hold the screen fabric between them when they are placed in juxtaposition, clips at the ends of the two strips adapted to hold them together, and means positioned at the ends of the strips adapted to retain them in position between the casings of the opening to be screened.

7. A fly-screen-fabric holder consisting of a plurality of flexible bars, attachable at the middle and ends of the screen fabric which they are collectively adapted to support, means forming a part thereof adapted for the holding of the screen-fabric, and end prongs adapted to hold the bars in position between the casings of the opening to be screened; the said bars being severally sufficiently flexible to allow of being bowed and sprung into position and sufficiently rigid to be thereafter retained in position by the endwise pressure of the sprung bars acting against the side casings of the opening to be screened.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES O. TESSIER.

Witnesses:
A. E. CHAPMAN,
WILSON P. MERRITT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."