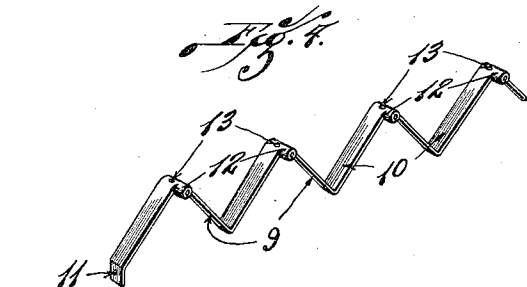
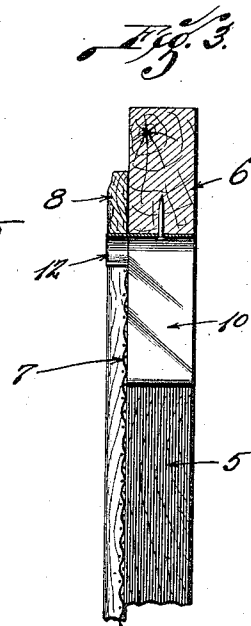
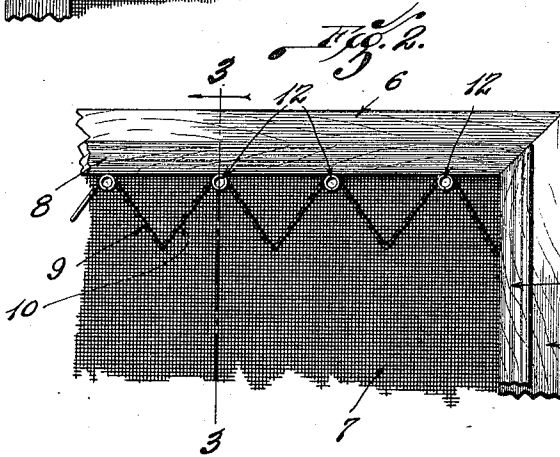
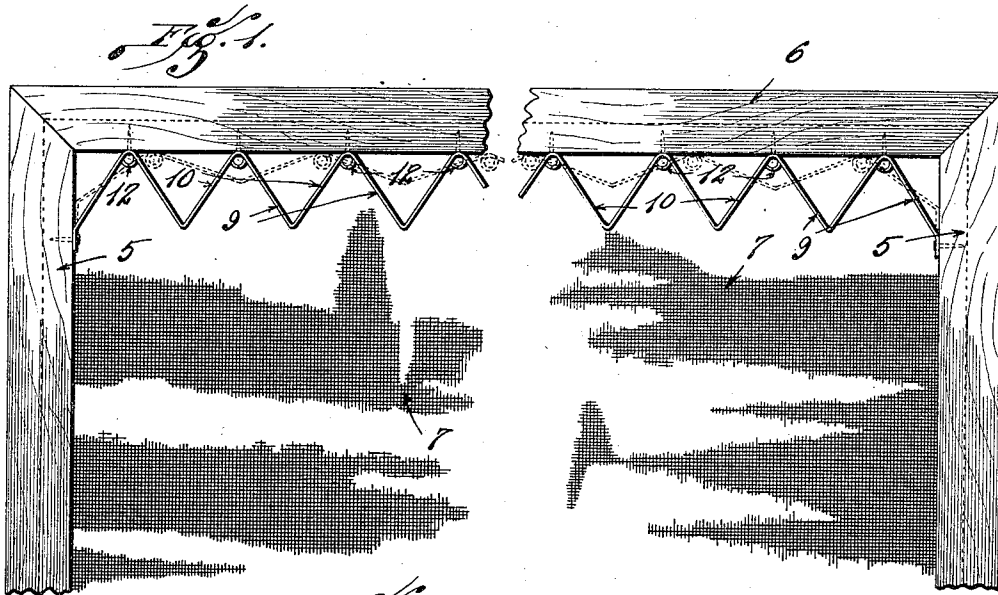


L. S. COUPLIN.
 FLY SCREEN.
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1,060,743.

Patented May 6, 1913.



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FLY-SCREEN.

1,060,743.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LEVI S. COUPLIN, a citizen of the United States, and resident of South Greenfield, Dade county, Missouri, have invented certain new and useful Improvements in Fly-Screens, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in fly screens, and the object of my invention is to construct an attachment including guide-ways and exit-openings, which are made of elastic material in order that a strip of the guide-ways and exit openings may be adjusted as to length in order to fit screen frames of various widths.

A further object of my invention is to construct a fly guide and exit attachment for screen frames in the form of a strip including fly guides and integral exit devices arranged to be secured adjacent a horizontal rail which may be either the top rail or an intermediate rail of a screen frame, and in which the guides are disposed against the screen or hardware cloth so that, as flies travel upwardly on the screen, the guides will conduct the flies to the exit devices lying in the apexes of the strip, and the exit devices conduct the flies to the outside of the screen through openings which are formed in the screen and through which the exit devices project.

With the above purposes in view my invention consists in certain novel features of construction and arrangement of parts as will be hereinafter more fully described, pointed out in the claims and illustrated by the accompanying drawings in which—

Figure 1 is an elevation of the upper portion of a screen frame equipped with a device constructed according to my invention, the view being taken from the inside of the frame; Fig. 2 is a fragmental elevation taken from the outside of a screen frame constructed according to my invention; Fig. 3 is an enlarged transverse sectional elevation taken on the line 3—3 of Fig. 2; and Fig. 4 is a perspective of a portion of a strip showing a plurality of guides and exit devices detached from a screen frame.

Referring by numerals to the accompanying drawings: 5 designates the sides or stiles of the screen frame which may be either a door, window or transom, and 6 designates

one of the horizontal rails which is shown as being the top rail, but which may be an intermediate rail.

7 designates a section of screen or hardware cloth having its margin secured to the frame in a common manner, and overlying the margins of the screen is a molding or bead 8 for further securing the margins of the screen.

In constructing the device of my invention I take a strip of material, preferably sheet metal, and crimp or otherwise form it to produce the oppositely inclined guides 9 and 10, and then form in the strip at its terminals the openings 11 in order that the strip may be secured to the stiles 5 of the screen frame.

Formed integral at the upper apex of each pair of the guides 9 and 10 is an exit device 12 which is substantially cylindrical and which devices, as shown in Fig. 3, are arranged to project through openings formed in the screen 7.

To equip a screen frame with the device of my invention the strip is held with its terminal ends against the inner edges of each of the stiles 5 and, when so held, the rail 6 is marked at points opposite the exit devices by punches, or other like tools. Openings are formed in the screen 7 which should be about the same size as the exit devices. The device of my invention is then placed in position with the exit devices projecting through the openings formed in the screen, the terminal ends are then secured by tacks, or the like, inserted through the openings 11 and then driven into the stiles 5. In the apexes, carrying the exit devices 12, there are openings 13 through which tacks or like securing devices may also be driven for further securing the strip in position.

By reason of the elasticity of the material entering into the construction of my device, it is obvious that a single strip may be lengthened or shortened so as to adapt the same length of strip to be employed upon screen frames of different widths. This, of course, will change the degree of incline of the guides 9 and 10 without interfering with their functions.

I contemplate the manufacture of my device as an article of manufacture independent of screen frames, and intend the supplying of merchants with such devices so that the persons already in possession of screen frames may obtain my devices and

apply them to their screen frames. I also intend the manufacture of screen frames equipped with the devices of my invention.

5 The strips having the oppositely inclined guides and the integral exit devices may be stamped or otherwise formed from single pieces of sheet metal, or in some cases from pieces of hardware cloth or screen.

I claim:

10 1. As a new article of manufacture, a fly guide and exit attachment for screened openings constructed of a single piece of material and comprising upwardly converging guides, and an integral tubular exit device
15 at the apex of said guides which projects laterally beyond the guides.

2. In combination with a screen frame

having a plurality of alined openings through the screen thereof, a fly guide and exit attachment constructed of a single piece 20 of sheet metal having its ends arranged to be secured to the screen frame, and consisting of a plurality of pairs of upwardly converging guides and integral laterally extended tubular exit devices at the apexes of 25 said pairs of guides which will project through the openings in the screens.

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

LEVI S. COUPLIN.

Witnesses:

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N. G. BUTLER.

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