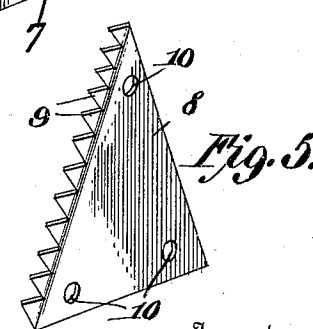
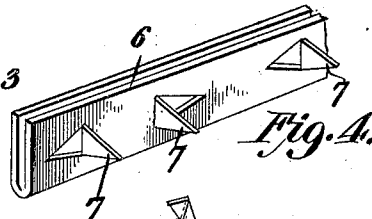
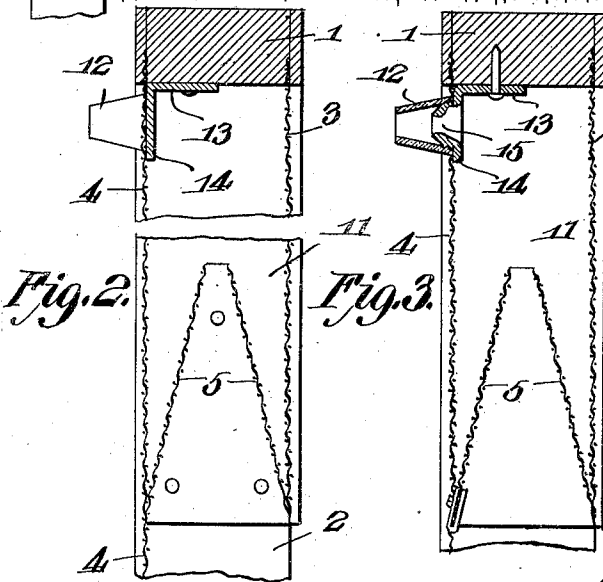
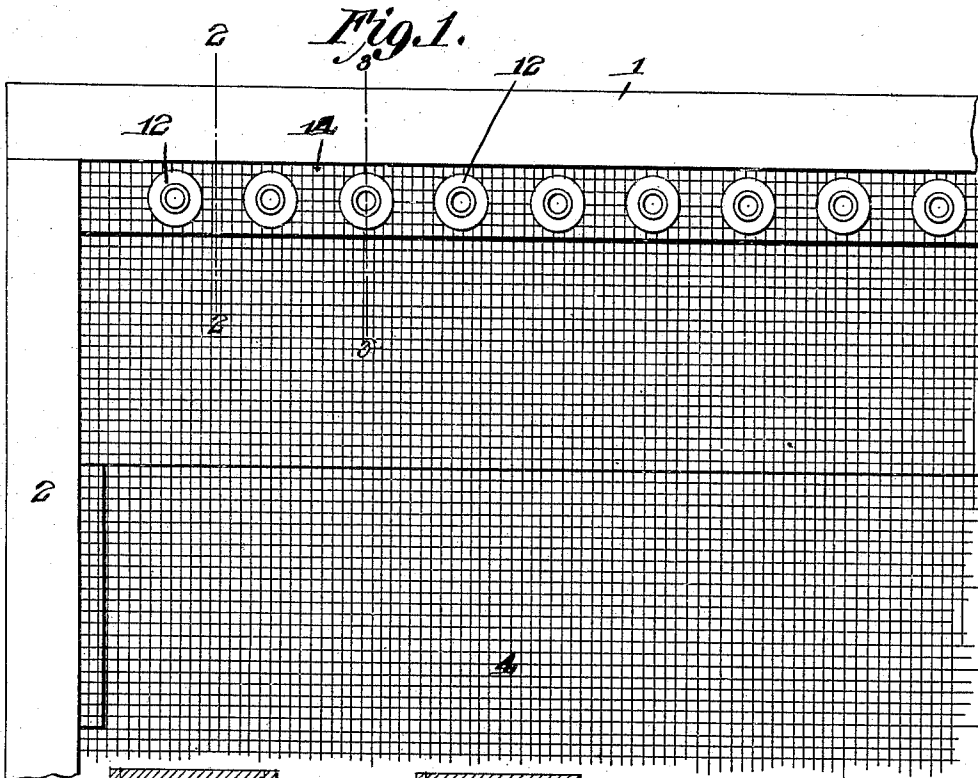


L. S. COUPLIN.
 FLY SCREEN.
 APPLICATION FILED OCT. 6, 1909.

990,635.

Patented Apr. 25, 1911.



Witnesses
[Signature]
[Signature]

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UNITED STATES PATENT OFFICE.

LEVI S. COUPLIN, OF SOUTH GREENFIELD, MISSOURI.

FLY-SCREEN.

990,635.

Specification of Letters Patent.

Patented Apr. 25, 1911.

Application filed October 6, 1909. Serial No. 521,235.

To all whom it may concern:

Be it known that I, LEVI S. COUPLIN, a citizen of the United States of America, residing at South Greenfield, in the county of Dade and State of Missouri, have invented new and useful Improvements in Fly-Screens, of which the following is a specification.

This invention relates to fly screens designed to be connected to windows or doors, and one of the principal objects of the same is to provide means for permitting flies that have been confined within rooms to gain an exit to the outside.

Another object of the invention is to provide a window or door screen having means whereby the flies within the room may gain an exit by crawling up the screen through a funnel-shaped escape exit through which a fly may pass without permitting him to re-enter.

Another object of the invention is to provide a window or door screen with a trap for catching the flies as they escape through the exit devices, said trap being provided with an end door for cleaning the trap of flies.

Still another object of the invention is to provide a trap for flies having a hinged door to permit the insertion of bait to attract the flies.

These and other objects may be attained by means of the construction illustrated in the accompanying drawings, in which,—

Figure 1 is a front elevation of a portion of a fly screen made in accordance with my invention. Fig. 2 is a detail sectional view on the line 2—2 of Fig. 1. Fig. 3 is a similar view taken on the line 3—3 of Fig. 1. Fig. 4 is a detail perspective view of a metal binding strip for securing the leading device within the screen. Fig. 5 is a similar view of an end clamp for said leading device.

Referring to Figs. 1, 2 and 3 of the drawing, the numeral 1 designates the top bar of the screen frame, and 2 the vertical members of said frame. Secured within the frame on the inside is a wire cloth screen 3, and secured to the outside is a similar wire cloth screen 4. Connected to the screen members 3 and 4 at a suitable distance below the top thereof are the two leading elements 5 also made of wire cloth and extending entirely across the window screen. The lead-

ing device may be secured at its lower edge to the screen members 3 and 4 by means of a metal strip 6 bent upon itself and provided with a series of prongs 7 adapted to pass through the screen material to hold the leading elements 5 to the screen members 3 and 4. Other means, however, may be employed for securing the members 5 in place. At the sides the leading elements 5 are connected to the vertical bars 2 of the frame by means of the triangular metal plates 8 (Fig. 5) provided with projecting prongs 9 and perforations 10, said prongs being adapted to clamp the wire cloth, and the perforations 10 being available for fastening devices for securing the plates 8 to the bars 2 of the screen frame. As shown, the elements 5 converge toward their upper edges to provide an opening extending across the frame of just about sufficient size to admit a fly into the chamber or trap 11 above the leading elements.

A series of funnel-shaped fly exits 12, preferably made of glass, are secured to the outer screen member 4 at a point near the upper edge thereof by means of a metal bracket 13 extending across the screen and provided with perforated bushings 14 for holding the funnels 12 connected to the screen member 4, as shown more particularly in Fig. 3.

A room provided with screens made in accordance with this invention will permit the flies in the room to escape and bar their re-entrance. Flies in the room seeking the light will fly upon the screen member 4 and by crawling up said member will gradually pass through the leading elements 5 into the chamber 11 from which they will eventually seek an exit through one of the funnels 12. Suitable bait may be placed within the chamber 11 to entice the flies, and when they are caught they may be destroyed in any suitable manner.

I claim:—

A fly screen comprising a frame, a screen further secured to the outer side of the frame, a second screen member connected to the inner side of the frame and extending for a distance below the top of the frame, leading members including upwardly converging reticulated sides extending from the lower end of the second-named screen member and from the adjacent face of the first-named screen member, triangular-

shaped metallic strips secured to the opposed inner surfaces of the sides of the frame and having on their outer sides a plurality of prongs bendable into engagement with the opposite end portions of the sides of the leading member, and U-shaped metallic strips receiving the lower portions of said side members, each of said strips being provided on one limb thereof with prongs

bendable into engagement with the said 10 screen members.

In testimony whereof I affix my signature in presence of two witnesses.

LEVI S. COUPLIN.

Witnesses:

J. L. GILLILAND,

P. P. MARSH.

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