

T. H. NACE.
COMBINATION WINDOW SCREEN AND FLY TRAP.
APPLICATION FILED MAY 6, 1911.

1,006,778.

Patented Oct. 24, 1911.

2 SHEETS—SHEET 1.

Fig. 1.

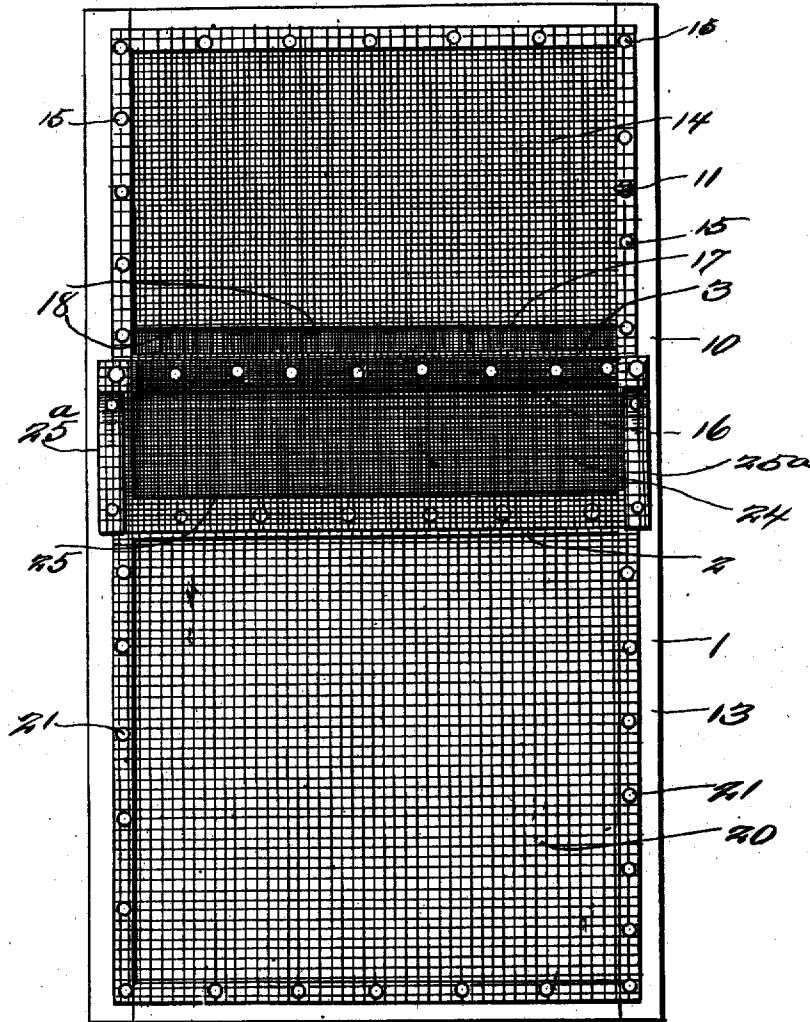
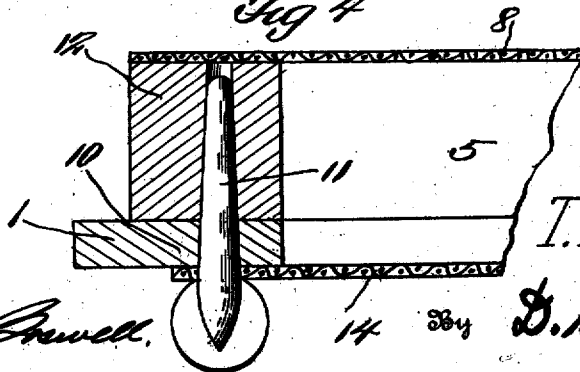


Fig. 4.



Witnesses

Francis J. Brewster.
L. Dunn

Inventor

T. H. Nace.

S. Swift & Co.

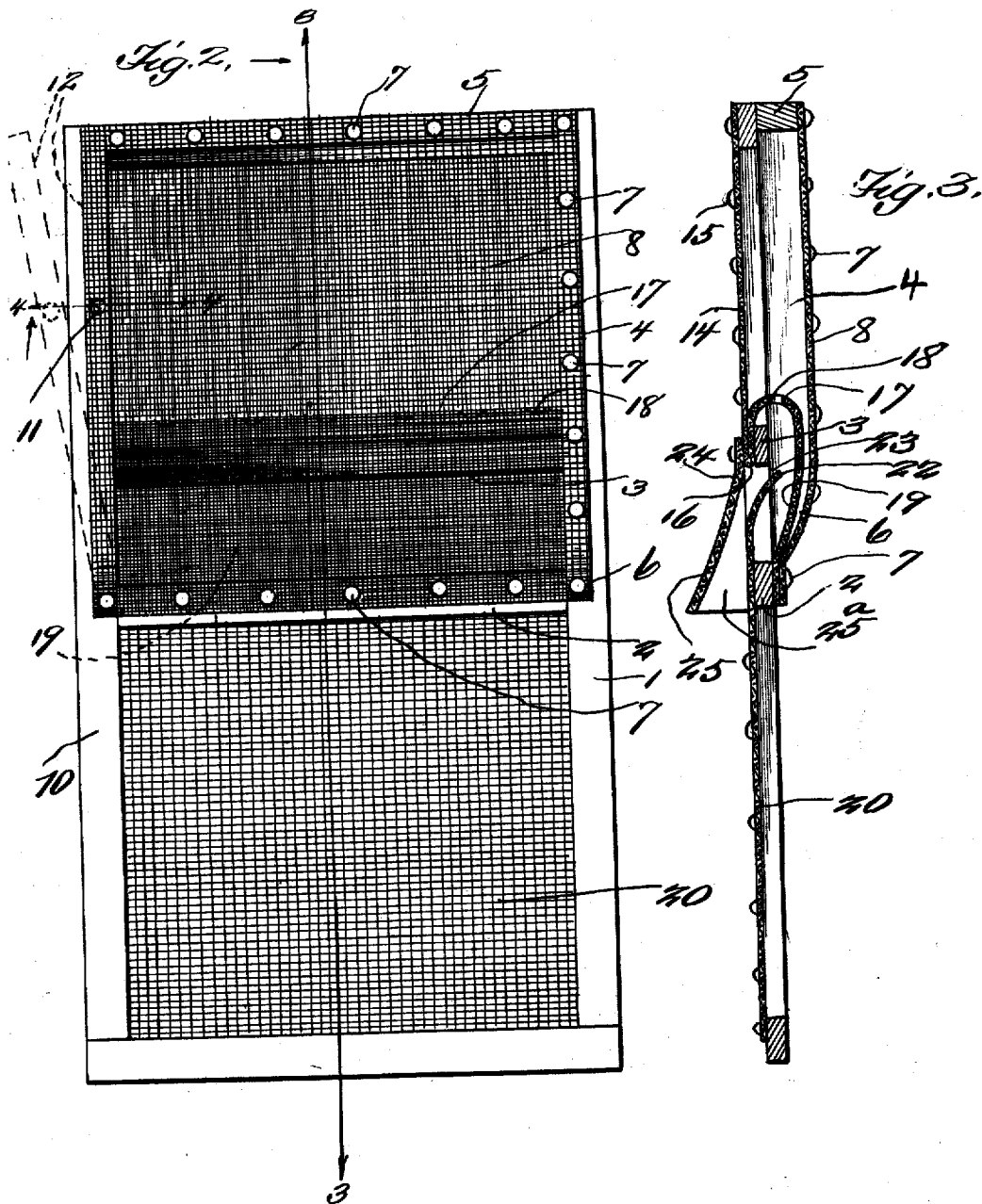
Attorney

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2 SHEETS—SHEET 2.



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Francis F. Powell
J. Dunn

Inventor

T. H. Nace

By D. Swift & Co.
Attorney

UNITED STATES PATENT OFFICE.

THOMAS H. NACE, OF HOT SPRINGS, ARKANSAS.

COMBINATION WINDOW-SCREEN AND FLY-TRAP.

1,006,778.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, THOMAS H. NACE, a citizen of the United States, residing at Hot Springs, in the county of Garland and State of Arkansas, have invented a new and useful Combination Window-Screen and Fly-Trap; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention pertains to a new and useful combined window screen and fly trap, in which there is involved novel features of construction.

The invention in its broadest scope aims as its primary object to provide a simple, efficient and practical device of this design for entrapping flies, as they endeavor to pass through an opening of the window screen. In the drawings, however, there is only disclosed one form of the present invention, but in practical fields this form may require alterations, to which the applicant is entitled, provided the alterations are comprehended by the appended claims.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—Figure 1 is a view in elevation, of a window screen and fly trap combined, constructed in accordance with the invention. Fig. 2 is a similar view of the opposite side of the combined screen and trap, showing a closure member open in dotted lines, to allow the removal of the entrapped flies. Fig. 3 is a vertical sectional view on line 3—3 of Fig. 2. Fig. 4 is a sectional view on line 4—4 of Fig. 2.

Referring more particularly to the drawing, 1 designates the rectangular frame of the window screen. Extending transversely of the frame and adjacent its central portion are two strips 2 and 3. Secured on one face of the frame, as shown in Fig. 2, at the top and one side are the adjoining strips 4 and 5. The lower end of the strip 4 is curved off or beveled, as shown at 6. Secured by tacks or other means 7 to the faces of the strips 4 and 5, and to the face of the strip 2, and conforming to the curved or beveled portion 6 of the strip 4, is an area of wire mesh or screening 8. This screening 8 forms the outer wall of the fly trap. Secured to the side 10 of the frame, at its upper portion by means of a transversely dis-

posed pin or plug 11 is a strip 12, which corresponds in shape to the strip 4. This strip 12 constitutes a closure member for the opening between the screening or mesh work 8 and the side 10 of the frame. This strip or closure member 12 is removable by withdrawing the pin or plug 11, in order to allow the removal of the entrapped flies.

Fastened to the face 13 of the frame 1 at its upper portion, and extending down to the transverse strip 3 is an area of meshwork or screening 14. This meshwork or screening 14 is secured to the frame 1 by means of tacks or other suitable means 15. At the point where the screening or meshwork 14 engages the transverse strip 3, it is folded upon itself as shown at 16, and subsequently turned into a semi-circular curve 17, transversely of which a plurality of apertures 18 are formed, in order to permit the flies to enter between the two pieces of screening or meshwork 8 and 14. The screening which forms the semicircular curved portion terminates into an extension 19, which is secured to the strip 2, between the strip 2 and the screening or meshwork 8.

The lower face 13 of the frame 1 is provided with an area of screening or meshwork 20, which is secured in place by tacks or other suitable means 21. The screening or meshwork 20 is also secured to the strip 2 and is extended beyond the strip 2 with its free edge substantially adjacent the strip 3. This free edge 22 of the screening or meshwork 20 is arranged approximately midway between the strip 3 and the extension 19 of the screening or meshwork 14, thus providing an opening 23 between the strip 3 and the said free edge 22. The natural tendency of flies when crawling upon a vertical surface is to travel upwardly. Thus it will be seen that as the flies move upwardly on the screening or meshwork 20, they will pass through the opening 23, and then through the apertures of the semi-circular curved portion 19 into the trap. After the trap is filled, the closure member 12 may be opened, in order to remove the accumulated flies. Also secured to the strip 3 and on the face 13 of the frame 1 is a strip of screening or meshwork 24, a portion 25 of which is disposed on an angle, thus constituting a deflector for the flies, as they crawl up the screening or meshwork 20. This deflector causes the flies to more readily pass through the opening 23. To hold the de-

deflector at an angle to the face 13 of the frame blocks 25* are secured by any suitable means to the face 13, upon each side of the frame 1. These blocks 25* are provided with inclined faces, to which the ends of the deflector are secured as shown in Fig. 1.

From the foregoing description, one will observe that there has been devised a novel, efficient and practical combined window screen and fly trap, and one which will unquestionably entrap flies, in their endeavors to escape.

The invention having been set forth, what is claimed as new and useful, is:

1. In combination, a window screen frame having two spaced apart strips arranged parallel to one another and transversely of the frame, substantially at the central portion, said frame having a strip secured transversely thereof on one face at its top, and an additional strip at right angles thereto, secured to the side of the frame, said additional strip being curved at its lower end, an area of meshwork secured to the strip at the top of the frame and the additional strip, and conforming to the curvature of the lower end of said additional strip, an area of meshwork secured to the frame on the face opposite the additional strip, bent upon itself and secured to the uppermost of the parallel strips, the meshwork which is folded upon itself turned into a semi-circular curve and extending downwardly and secured to the lowermost of the parallel strips between it and the first meshwork, an area of meshwork secured to the same face of the frame to which the second mesh work is secured and below the second mesh work, and extended beyond the lowermost of the said parallel strips with its

edge arranged adjacent the uppermost of the parallel strips and disposed substantially midway the uppermost of the parallel strips and the extension of the semi-circular curve, thus forming an opening, a closure member arranged between the first meshwork and the frame, said closure member corresponding in shape to the strip having its lower portion curved, means for removably holding the closure member in place, said curved portion of the second mesh work having a plurality of apertures, a deflector secured to the uppermost of the parallel strips and extending annularly downwardly, and means for holding the deflector angularly in position.

2. In combination, a window screen frame having a mesh work inclosure at its upper portion and an area of meshwork at its lower portion, said inclosure having a meshwork provided with a plurality of apertures extending therinto, an opening leading into the curvature of meshwork, a deflector arranged angularly on one side of the frame and extending downwardly and disposed adjacent the opening, blocks having inclined faces for holding the reflector angularly in position, a strip arranged at one side of the meshwork inclosure, thus constituting a closure member therefor, and a pin extending through the frame and the closure member for removably securing the same in place.

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

THOMAS H. NACE.

Witnesses:

THOS. J. GLADSON,
J. H. C. KING.