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R. BENEDICT

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WIRE SCREENING APPLICATOR

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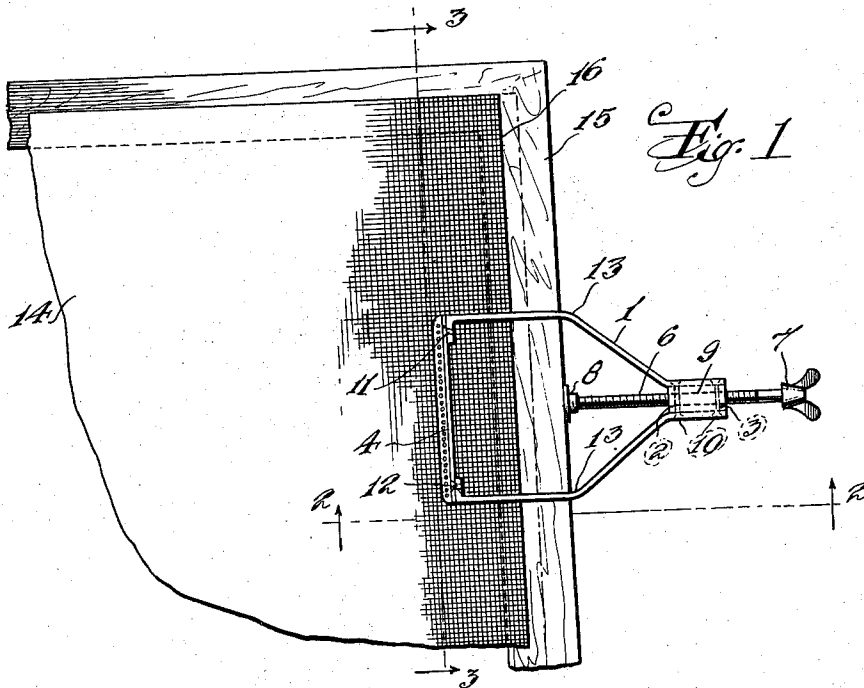
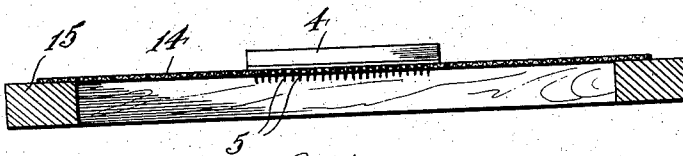
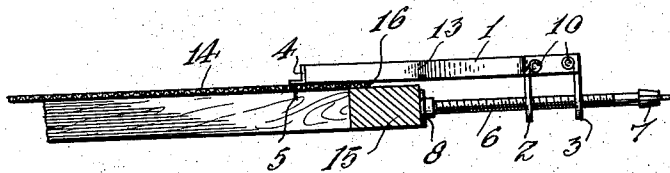


Fig. 2



Inventor:
Rouben Benedict

by *A. D. Libby*
Attorney.

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WIRE SCREENING APPLICATOR

Reuben Benedict, East Orange, N. J.

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5 Claims. (Cl. 140—109)

This invention relates to a device for applying wire screening to window and door screen frames, and the like. The device to be herein described is especially adapted for home use, although it is to be understood that the use of the invention is not to be so limited.

In applying screening to window and door frames, it is the usual practice, after cutting the screen to size; that is, the right length or width, or both, to tack the wire screening to one side of the frame, and then to pull on the other side, either by hand or a pair of pliers, which is awkward and is apt to tear the screening, especially if the screening has been cut on the edges to fit the frame, because the first few longitudinal strands of the screening on the cut edge are not securely bound and are therefore apt to be pulled out by the force applied to this edge of the screen.

Also, it very frequently happens that due to some pressure applied to the screening, as by leaning or kicking against it, the screening is pulled loose from the tacks that fasten it to the frame, and if the overlapping portion of the edge of the screen or margin is limited, it is quite difficult to pull the old screening back into place for repairing the damage. For this repair work, my present invention is especially adapted because, as will appear from the description which follows, the pull on the screen is easily applied over a considerable length of the screening. In other words, the pull is not confined to a limited place as is the case when the screen is pulled by the fingers of the operator or by a pair of pliers.

It is therefore the principal object of my invention to provide a device which will greatly expedite the application of wire screening to a frame, or to make repairs on old screens in which the screening has been pulled away from the frame as heretofore indicated.

While attaining the principal object of my invention, it is another object to provide a device for the purposes described which is cheap to manufacture and hence made available to the general public.

My invention will be readily understood by reference to the annexed drawing, wherein:

Figure 1 is a top plan view of the device shown in operative position in the act of applying a wire screen to a frame.

Figure 2 is a view on the line 2—2 of Figure 1.

Figure 3 is a view on the line 3—3 of Figure 1.

Referring now to the details wherein like numbers refer to corresponding parts in the various views, the screen applicator comprises a frame 1 of any suitable material, preferably metal, hav-

ing spaced lugs 2 and 3 depending downwardly at one end of the frame. At the opposite end of the frame, a bar or cross-member 4 carries a plurality of brads 5 preferably spaced in accordance with the mesh of standard wire screening, so that the brads may be readily hooked into the screening. The lugs 2 and 3 are threaded to receive a set screw 6 having a wing nut 7 at one end for operating the screw, and a self-adjustable disc 8 at the opposite end to engage the side of the frame.

As shown in the drawing, the lugs 2 and 3 are an integral part of the U-shaped member 1 by rivets between the ends of the frame member 1 by rivets 10 and solder which may be applied at one or more places, although the solder may be avoided if the member 9 is provided with downwardly turned ears through which the rivets 10 may pass. While the bar or cross-member 4 is shown riveted at 11 to inturned ends 12 of the frame members 1, it may be made integral therewith. The brads 5 may be fastened to the member 4 in any satisfactory manner as by a staking operation, soldering, brazing or welding. Where only a few brads are necessary, the equivalent may be obtained by punching, directly out of one side of the angle-shaped member 4, pointed projecting portions which will serve the same purpose as the brads.

While the members 1 are shown with a bend at the points 13, they may run straight diagonally from the member 9 to the inturned end portions 12. Furthermore, while I have shown the frame members 1 as being made of strip material, they may be made of round stock or stock of a different cross-sectional form. It will thus be seen that the details for making up the applicator per se may be varied over a considerable range.

In using the screen applicator and assuming that the screening 14 is the right width to fit the frame 15, the screening is cut to the proper length and after one side has been tacked down, the applicator is applied as shown in Figure 1. In other words, the brads 5 are inserted through the mesh of the screen and the screw 6 is turned up so that the disc 8 engages the side of the frame member 15, and the screening will be very easily and quickly drawn taut, so that it can be tacked to the frame member 15. Where long frames are used, one or more of the applicators may be applied and the screening quickly drawn into fastening position. The width of the applicator itself may be most anything desired, but I have found a width from six to ten inches to be very handy for general home use.

Since the brads 5 engage the screen a substantial distance from the edge 16, there is no danger of pulling out the longitudinal wires at the edge of the screen where it has been found necessary to cut the screen to get the right width. Also, it will be seen that the applicator can be very advantageously used in repairing old screens as heretofore indicated, since it may be readily applied, and the stress is applied to the screen over a considerable area in contradistinction to a pull by the fingers of the operator, or by a pair of pillars.

What I claim is:

1. A device for the purpose described comprising a frame of two portions laterally spaced a relatively wide distance apart at one end and connected by a cross-bar carrying a plurality of longitudinally arranged brads to engage the meshes of a door or window screen on one side thereof, support means for said frame portions at the end of the frame opposite to that carrying the brads, strain-applying means carried by said support means and having a part adapted to engage the screen frame to which the screening is to be applied.
2. A wire screen applicator comprising a frame of two portions laterally spaced a substantial distance apart in approximately the same horizontal plane and adapted to be applied over only one side of the screen and having a pair of spaced depending lugs with threaded holes therein, a strain-applying screw carried in said threaded holes and having a flanged member mounted on one end of the screw for engaging the screen frame to which the screening is being applied, a single cross-member carried by the frame and having a plurality of spaced brads to engage the wire mesh of the screen on only one side thereof.

3. A wire screen applicator comprising a frame of two portions laterally spaced a substantial distance apart and adapted to be applied over only one side of the screen and having a pair of spaced depending lugs at one end, a strain-applying member adjustably carried by said lugs and having a member at one end to engage a part of the screen frame to which a wire screen is to be applied, said applicator frame having a single cross-bar fixedly joining said two frame portions and supporting a plurality of brads arranged longitudinally along the length of the bar for engaging the mesh of the screen on only one side thereof, whereby the same may be stretched into fastening position on the screen frame.

4. A wire screen applicator having a frame of two portions laterally spaced a substantial distance apart and joined at one end by a U-shaped member, a strain-applying member carried by the arms of the U-shaped member and having manipulating means at one end and a device at the other end to engage the screen frame, said applicator frame having a cross-member permanently joining said two frame portions and carrying a longitudinal row of spaced brads for engaging the screen meshes on one side only for the purpose described.

5. A wire screen applicator having a frame comprising two spaced arms connected by a cross-bar having a plurality of brads spaced along its length for engaging the screen mesh on only one side, said frame arms being joined at their opposite ends by a support member, and a strain-applying member carried by said support member and having a part adapted to engage the screen frame whereby the screen may be stretched into fastening position on its frame.

REUBEN BENEDICT.