Aug. 12, 1952 D. A. STEWART 2,606,608

ADAPTER FOR SCREEN CLOTH

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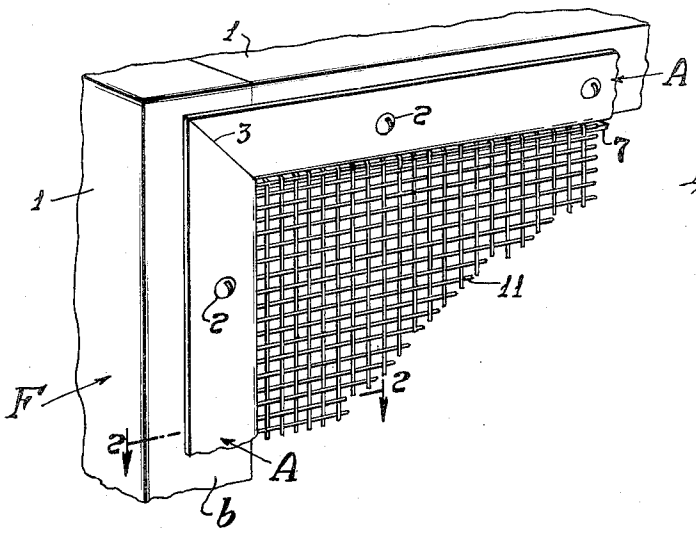


Fig. 1.

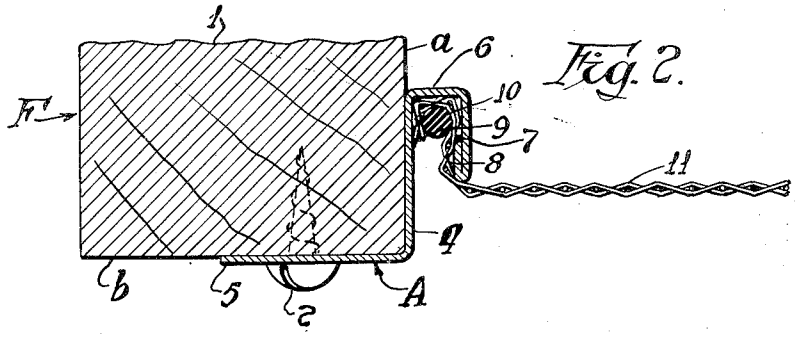


Fig. 2.

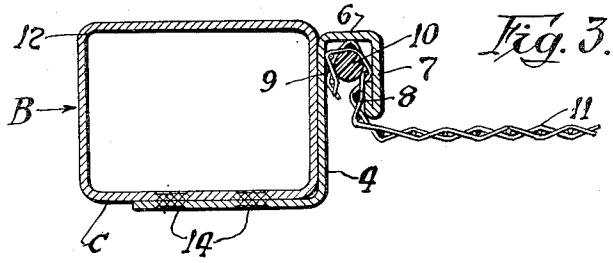


Fig. 3.

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ADAPTER FOR SCREEN CLOTH

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2 Claims. (Cl. 160—371)

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This invention relates to an adapter for screen cloth or other sheet material and it is an object of the invention to provide an adapter to be mounted about the perimeter of an opening to provide a ready and convenient means whereby said opening may be covered tightly and neatly by a screen fabric or other sheet of desired material.

It is also an object of the invention to provide an adapter that obviates the present need of a frame or the like about an opening to be so covered and the existing material forming the opening is suitable to receive the adapter and need not be milled as would be necessary if this adapter were not used.

A still further object of this invention is to provide an adapter that may be secured to the material forming the boundary of any opening that acts as a superior framework for screen fabric or the like holding the fabric very taut with tension both laterally and vertically.

In order that my invention may be better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein:

Figure 1 is a fragmentary view in perspective of an adapter constructed in accordance with an embodiment of the invention applied to a frame of wood or the like for placement within a wall opening;

Figure 2 is an enlarged fragmentary sectional view taken substantially on the line 2—2 of Figure 1; and

Figure 3 is a view similar to Figure 2 but illustrating the adapter applied to a metallic member of the frame for placement within a wall opening.

In the embodiment of the invention as illustrated in Figures 1 and 2 of the drawings, 1 denotes a member of a frame F to be snugly received with a wall opening and which member may be of wood or other material that may be penetrated by a screw 2 or the like.

An adapter A embodying the invention is to be positioned along the inner marginal portion of a member 1 with the ends of adjacent adapters A mitered, as at 3, or otherwise formed to allow said adjacent ends to have close contact. Each adapter may be separate or independent of the others or adjacent adapters A may be suitably connected as the requirements of practice may prefer.

Each adapter A, as herein disclosed, comprises an intermediate plate 4 for close contact from end to end with the inner edge face *a* of a strip

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1. This plate 4 is also of a length coextensive with the length of the face *a* and of a width throughout its length to extend a material distance across the face *a*.

A longitudinal margin of the plate 4 is defined by an outwardly and laterally directed plate or flange 5 which has close contact with a side face *b* of the member 1. The adapter A is held in working position on its member 1 of the frame F, by the screw 2 or kindred member which also penetrate the member 1. In the accompanying drawing the plate or flange 5 is at right angles to the plate 4. This, however, may be varied as the necessities of practice may require.

The second or inner longitudinal margin of the plate 4 is defined by a relatively narrow flange and herein shown perpendicular to the plate 4. This flange 6 is disposed in a direction opposite to that of the plate or flange 5 or in a direction inwardly of the frame F when the adapter is applied.

The outer longitudinal margin of the flange 6 is defined by a flange 7 which is spaced inwardly of the plate 4. This flange 7 is herein disclosed substantially parallel to the plate 4 and of a width materially less than the width of the plate 4.

The outer longitudinal margin of the flange 7 is continued by a reverted strip 8 which lies close against the inner face of the flange 7. The strip 8 is of a materially less width than the width of the flange 7, whereby the free longitudinal edge of the strip 8 provides an inwardly facing shoulder 9 or shoulder which is opposed to the flange 6.

The flange 6, and the plate or flange 7 together with the plate 4 provide a pocket to receive a marginal portion of the screen fabric or sheet 11 disposed over the opening of the frame F. This marginal portion is rolled around a key 10 of plastic or other suitable material and which key 10 is preferably pliable to facilitate assembly. The key 10 is also of a length substantially equal to the length of the flange 6 and of such diameter from end to end to hold the rounded portion of the screen inwardly of the shoulder 9 and to press the fabric or sheet against the plate 4 whereby the sheet or fabric 11 is tightly held by the adapter.

The key 10 can be readily applied or removed and thus allowing such adjustment of the portion of the sheet or fabric 11 disposed around the key 10 to be adjusted as required to assure the fabric or sheet 11 being tight across the opening of the frame F.

As illustrated in Figure 3 the adapter A is simi-

lar in structure to the adapter as previously described. However, the adapter A is applied to a metal member 12 of the frame B for the wall opening and the outer plate or flange 5 of the adapter is spot welded, as at 14 to an outer face *c* of the member 12 of the frame B.

As clearly illustrated in the accompanying drawings the various plates, flanges and strip of the adapter A is formed from a single length of sheet metal of requisite gauge.

From the foregoing description it is thought to be obvious that an adapter for screen cloth constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated.

I claim:

1. In an adapter for holding a marginal edge portion of a screen fabric to a member of a frame, a length of U-channel metal having the outer side wall thereof of a greater width than the inner side wall, a flange out-turned from the free edge portion of the outer side wall, means for securing the flange along the inner face and edge of the frame member, a reinforcing portion over-turned inwardly from the free edge of the inner side wall and into abutting relation with respect to the inner side of the latter wall, and a key of circular cross-section engaged within the channel behind the free edge of the reinforcing portion and with the marginal edge portion of the fabric to clamp the latter between the same and the walls of the channel.

2. An adapter for holding a marginal portion of a screen fabric to a member of a frame, comprising an elongate plate to be secured along the inner face and edge of said frame member, an outstanding flange integral with and extending along the inner longitudinal margin of the plate, a second plate integral with and disposed along the outer margin of the flange and extending parallel with respect to the first plate to form a channel therewith to receive a marginal portion of the fabric, a reinforcing portion overturned inwardly from the free edge of the second plate and into abutting relation with respect to the outer portion of the inner side of the latter, and a key for placement within and along the channel to hold said marginal portion of the fabric against removal, said key engaging behind the free edge of the reinforcing portion for its retention in place and acting to clamp the marginal edge of the fabric between the same and the plates and the flange.

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