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2,300,459

SCREEN HANGER

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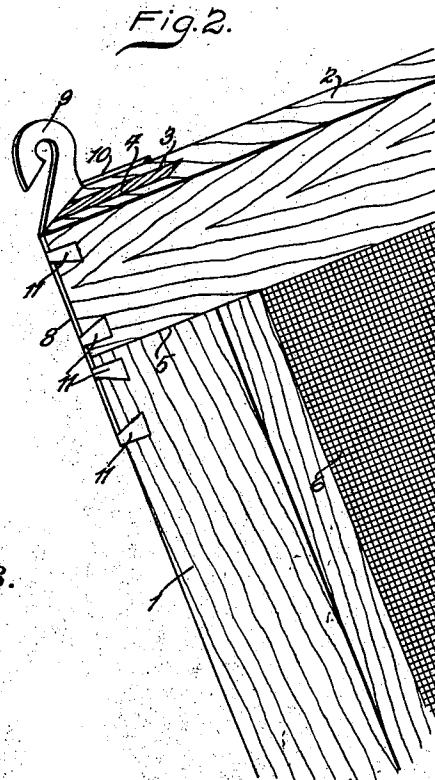
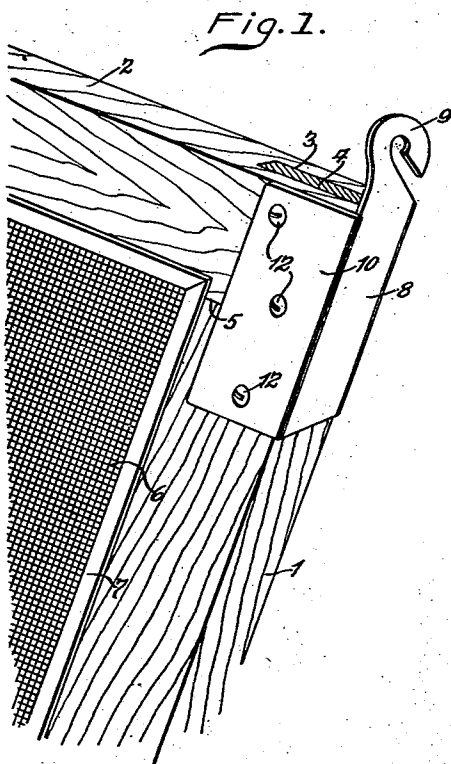


Fig. 3.

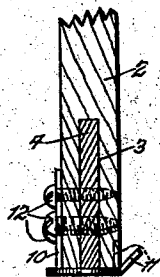


Fig. 4.

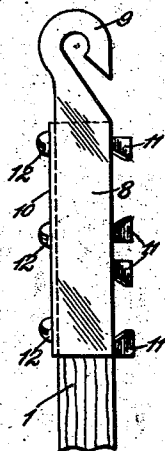


Fig. 5.

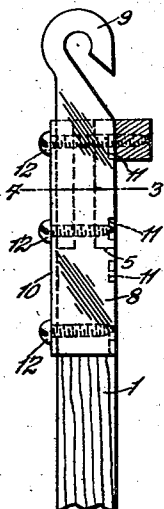
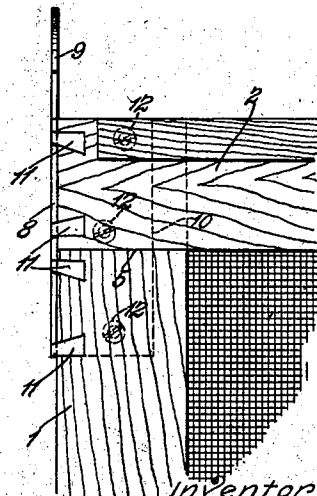


Fig. 6.



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SCREEN HANGER

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3 Claims. (Cl. 160—369)

This invention relates to screen hangers, and has special reference to hangers for use on window screens and the like to support them in proper position within window frames.

An object of the invention is to provide an improved window screen hanger having side portions arranged to engage between them and clamp against the inner and outer surfaces of the screen frame at the joints connecting the top and side members of said frame in order to prevent detachment or separation of said members and to reinforce and strengthen their attachment to each other.

Another object of the invention is to provide an improved metallic hanger for a wood screen frame including an elongated outer hanger portion extending above the frame for engagement with a hanger pin attached to the window frame, and inner and outer combined clamping and attaching portions arranged to clamp against the inner and outer surfaces of the screen frame at the corners thereof, one of said portions being provided with holes for the passage of attaching screws, etc. transversely into the frame structure and across the joint attaching the upper wood screen member to the wood side member thereof.

Other objects and advantages of my improved screen hanger will be apparent from the following description, reference being made to the annexed drawing, in which—

Fig. 1 is a perspective view of the corner of a window screen frame having my improved hanger attached thereto.

Fig. 2 is a perspective view showing the opposite side of the window screen frame and the clamping portions of the hanger in connection therewith.

Fig. 3 is a top plan view of my improved hanger attached to a window screen frame before the bendable clamping parts have been clamped against the screen frame.

Fig. 4 is an outer side edge elevation of the hanger as shown in Fig. 3.

Fig. 5 is an outer side edge elevation showing the hanger clamped upon and attached to the screen frame.

Fig. 6 is an elevational view showing the clamping devices after they have been clamped against and embedded within the screen frame.

The portions of the screen frame shown are of conventional and well-known construction including two duplicate wood side members 1 of which only one is shown, a wood top member 2 which is a duplicate of a bottom member (not shown). Each end of the top member 2 is

formed with a vertical slot 3 receiving the tenon 4 formed at the upper end of the adjacent side member. Usually the slots 3 extend the full vertical width of the top member 2 and the tenons 4 extend the full horizontal width of the side members of the screen frame. By this arrangement the slots 3 are completely filled by the tenons 4 and the top member of each screen frame seats upon shoulders 5 near the upper ends of the side members 1 at the union of the tenons 4 therewith. The screen 6 is attached to the frame by any suitable fastening devices, and usually has its margins covered by strips 7 secured to the screen frame members.

My improved screen hanger is preferably formed from a sheet metal blank shaped to provide an elongated middle portion 8 having a hook 9 at its upper end arranged to engage upon a hanger pin or other element attached to the window frame, as is well known; an outer side portion 10 of less length than the part 8 with its hook 9; and a series of bendable clamping fingers 11 formed integral with the opposite edge of the part 8 from the plate 10.

The width of the part 8 is approximately equal to the thickness of the side frame member 1 of the screen for which it is intended. The horizontal width of the part 10 is preferably somewhat less than the horizontal width of said side frame member 1 and its length is greater than the vertical width of the top frame member 2, so that, when the hanger is applied and attached to the window screen, the portions 8 and 10 will extend across the shoulders 5.

The fingers 11 are preferably of tapered or dovetail formation and are initially flared in a direction away from the part 10, so that the hanger may be easily applied to the window screen frame, as shown in Fig. 2. After the hanger is applied to the screen frame, the fingers 11 may be bent into clamping engagement with and embedded in the inner surface of said frame, certain of said fingers engaging the end of the top member 2 above the shoulder 5, and others of said fingers engaging in the side member 1 below said shoulder, as clearly shown in Figs. 2 and 6. The plate portion 10 of the hanger is formed with a number of holes through which screws 12 may be passed and engaged within the screen frame members 1 and 2 transversely of the tenon 4 above the shoulders 5 and transversely of the side members 1 below said shoulders.

These hangers or hanger brackets are provided for the two upper corners of the screen frame

for which they are intended. They are of reverse construction so that the plate portions 10 of each screen hanger are preferably at the outer side and the fingers 11 at the inner side of the screen frame. The fasteners 12 should be long enough to extend entirely across the tenons 4 and engage in the portions of the top member 2 at opposite sides of the slots 3 so as to cooperate directly with the clamping fingers 11 to strengthen the joints, prevent splitting of any of the screen frame members adjacent to the joints, and prevent said frame members from becoming detached or separated.

From the foregoing, it is apparent that this invention attains all of its intended objects and purposes with a high degree of efficiency and economy. The construction and form of the hangers may be varied within equivalent limits without departure from the nature and principle thereof as defined by the appended claims.

I claim:

1. In a wood screen frame in which the top and one side member are attached together by a slot and tenon joint having the upper frame member seating upon shoulders near the upper end of the side member, a metallic hanger for said frame comprising an elongated middle portion of greater length than the vertical width of said top member extending downwardly along the end of said top member and along the outer edge of said side member across said shoulders and having a hook extending above the frame to engage a hanger pin or the like, a side portion extending angularly from one side edge of said middle portion and across said shoulder and along one side of the adjacent ends of said top and side members, and vertically spaced clamping extensions integral with the opposite side edge of said middle portion clamping against and embedded in the opposite sides of said top and said side member from said side portion, respectively, above and below said shoulder and holding said overlapping portions clamped together with said top member on said shoulder.

2. In a wood screen frame in which the top and one side member are attached together by a

tongue and slot joint providing shoulders at opposite sides of the side member and having the upper frame member seating upon said shoulders near the upper end of the side member, a metallic hanger for said frame comprising an elongated middle portion extending downwardly along one end of said top member and along the outer edge of the adjacent side member and having a hook extending above the frame to engage a hanger pin or the like, a side portion extending angularly from one side edge of said middle portion and across said shoulder and along one side of the adjacent ends of said top and said side member, vertically spaced clamping extensions integral with the opposite side edge of said middle portion clamping against and embedded in the opposite sides of said top and said side member from said side portion, above and below said shoulder and holding said overlapping portions clamped together and holding said top member on said shoulders, and fasteners passing through said side portion of said hanger and through said overlapping portions of said top and side members in offset relation to said clamping extensions.

3. As an article of manufacture, a metallic hanger for a screen frame having a top member and a side member and comprising an elongated middle portion having a width approximately equal to the thickness of the frame for which the hanger is intended and having a hook extending beyond the upper end thereof, a side portion extending angularly from one side of said middle portion and having a length greater than the vertical width of the top member of the screen frame for which the hanger is intended and having holes therethrough for fasteners to be extended into the screen frame to which the hanger is applied, and a number of bendable clamping extensions integral with the opposite side edge of said middle portion adapted to be bent against and embedded into that side of the top and side members of the screen frame opposite from said side portion, said clamping extensions being offset and disaligned from said holes.

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