Feb. 8, 1927. 1,616,563

S. W. ALLEN

QUILTING FRAME

Filed July 27, 1925

Fig. 1.

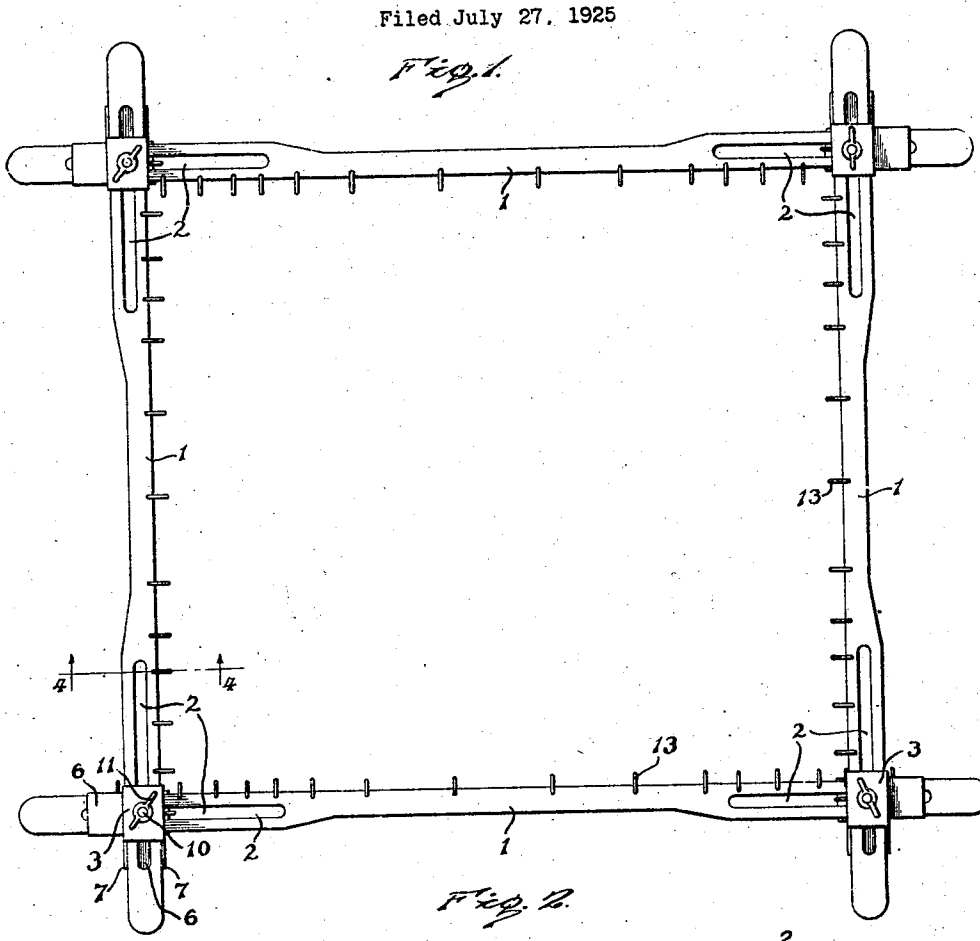


Fig. 2.



Fig. 3.

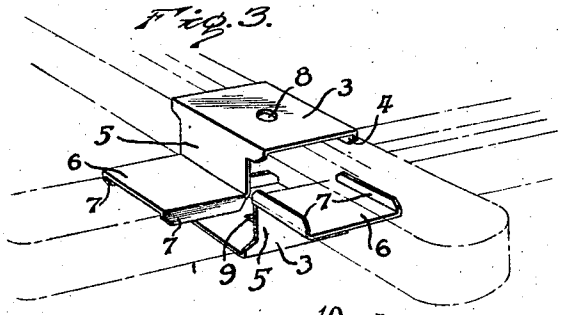


Fig. 4.

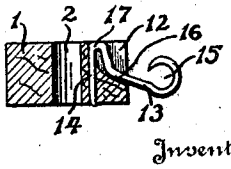
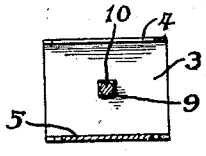


Fig. 5.



Inventor

S. W. Allen

By Lacey & Lacey Attorneys

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UNITED STATES PATENT OFFICE.

SHERMAN W. ALLEN, OF ALBANY, ALABAMA.

QUILTING FRAME.

Application filed July 27, 1925. Serial No. 46,367.

This invention relates to quilting frames and has for its object the provision of a frame of simple construction which may be easily adjusted to blocks of desired dimensions within definite limits, may be readily folded into compact form when not in use, will be securely held against collapse when arranged for use and which may be freely and easily handled without the user being apt to be injured through contact with the fabric engaging and supporting hooks. The invention is illustrated in the accompanying drawing and consists in certain novel features which will be hereinafter first fully described and then more particularly pointed out in the appended claim.

In the drawing:

Figure 1 is a plan view of my improved frame showing it arranged for use;

Fig. 2 is a view showing a part of the frame collapsed for storage or transportation;

Fig. 3 is an enlarged perspective view of the corner brackets indicating the position of the frame bars by dotted lines;

Fig. 4 is an enlarged detail section on the line 4—4 of Fig. 1, and

Fig. 5 is an enlarged sectional detail.

The frame constructed according to my invention consists primarily of four bars 1 which are preferably of wood and are relatively narrow, each bar being provided in its end portions with longitudinal slots 2. I also employ corner brackets 3 which are adapted to engage the respective bars and maintain them in right-angular relation when the frame is arranged for use, as shown in Fig. 1. Each of these brackets consists of a main web or plate of rectangular outline provided at one edge with a flange 4 and having a web 5 extending from its other parallel edge at a right angle to the main web or plate. The main plate of the bracket is of such width that the flange 4 and the web 5 will fit snugly against the opposite sides of the frame bar 1 engaged thereby and from the free longitudinal edge of the web 5 a plate or web 6 extends outwardly therefrom at a right angle thereto or in a plane parallel with the plane of the main plate or web. This outwardly projecting plate 6 is provided at its opposite side edges with flanges 7 extending at right angles to the said plate 6 and in a direction away from the main plate or web. Openings 8 and 9 are formed centrally through the main body portions or plates of the mating brackets to receive a bolt 10, upon the end of which is fitted a wing nut 11 to be turned home against one of the brackets whereby to clamp the brackets and the bars in a set relation. The opening 9 is flat-sided and the head of the bolt 10 is correspondingly shaped so that rotation of the bolt with respect to the brackets will be prevented.

Upon reference to Figs. 1, 2 and 3 of the drawing, it will be readily seen that in arranging the frame for use the frame bars are disposed at right angles to each other and the corner brackets are disposed across the respective bars, one being arranged upon the top of the upper bar and the other being arranged against the bottom of the lower bar. The flange 4 and the web 5 of each bracket will bear against the opposite sides of the bar against which the bracket is placed while the plate 6 of each bracket will project outwardly and rest against the adjacent side of the intersecting frame bar with the flanges 7 bearing against the edges of said bar. Each bracket will thus have a rigid engagement with each bar so that the bars will be positively maintained in their proper relation and when the nuts 11 are turned home will be securely clamped together so that they are not apt to become loosened or moved out of their proper relations while the frame is in use.

In the upper inner corner of each frame bar, transversely thereto, I form a series of notches or recesses 12 which are narrow and are preferably formed by merely making saw kerfs across the corners of the bars. These notches may be provided in any desired number and are preferably arranged closer together at the ends of the bars than in their central portions, as shown in Fig. 1. Within each kerf, notch or recess is secured a hook 13 for engaging the fabric which is to be held in the frame. As shown most clearly in Fig. 4, these hooks comprise a terminal straight vertical shank 14 which is adapted to be driven through the frame bar at the back of the recess 12, the bill 15 of the hook being connected with the shank 14 by an intermediate angularly disposed stem 16 which is adapted to rest upon the base of the recess with the bend 17 connecting it with the shank 14 disposed within the recess below the upper surface of the frame bar. The bill of the hook is thus disposed between the planes of the

opposite faces of the frame bar so that, while the fabric may be easily engaged with the hooks, the liability of the user's hand coming in contact with the hook and being thereby injured is removed.

In use, the material to be acted upon may be engaged with the hooks and the sewing performed in any manner which is most convenient or preferred by the user. Experience has indicated that the most advantageous way of employing the frame is to engage the lining of a quilt block with the hooks and then place the padding upon the lining and sew the covering fabric over and to the padding and the lining without engaging the edges of the covering material with the hooks. This, however, is entirely optional with the user.

When the device is set up for use, it can be arranged to act upon quilt blocks of any desired size by merely shifting the bolts 10 along the respective slots 2 and then securing them by turning the wing nuts 11 home. When the frame is not to be used, the bars are separated sufficiently to permit two bars to be disposed alongside each other, as shown in Fig. 2, and then secured in such position by tightening the bolts 10 in an obvious manner. The device can thus be collapsed into very compact form so that it may be stored or shipped within a very small space. The frame of my invention is very light and may be easily set aside temporarily without disturbing the work if it becomes necessary to stop the work before it is finished.

Having thus described the invention, I claim:

A quilting frame comprising frame bars, each end portion of each bar crossing an end portion of another bar, cooperating brackets each engaged with the outer face of a frame bar at the points where said bar crosses another bar, clamping bolts fitted through said brackets and through the crossed frame bars, and clamping nuts fitted upon the bolts and turned home against the adjacent brackets, there being a bracket disposed against the outer face of each crossed bar and each bracket having a side flange and a side web engaging the sides of the bar against the outer face of which it is secured and said web extending to the inner opposed face of the crossed bar, a plate extending laterally from the web and bearing against the opposed inner face of the crossed bar, and flanges at the sides of said plate engaging the sides of said opposed bar and terminating short of the outer face thereof.

In testimony whereof I affix my signature.

SHERMAN W. ALLEN. [L.S.]