June 3, 1952 H. B. McLEMORE 2,599,404

TRUSS FOR QUILTING FRAMES

Filed March 13, 1950

Fig. 1.

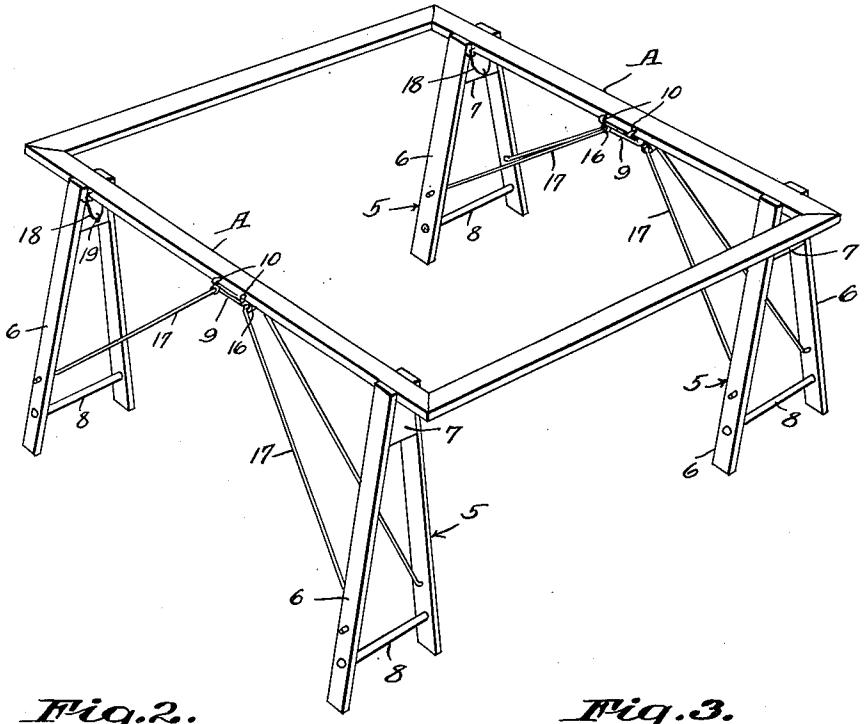


Fig. 2.

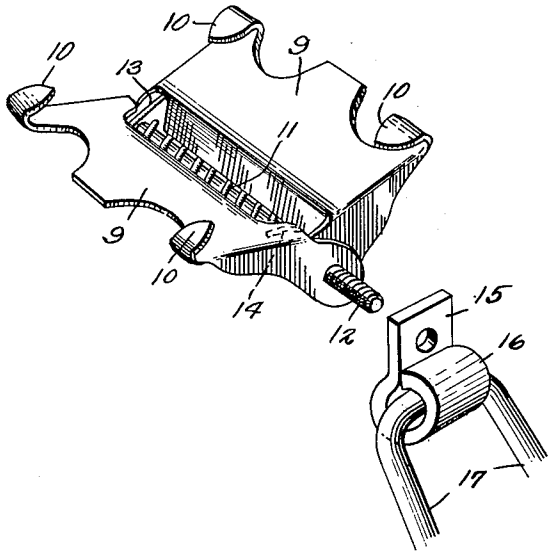
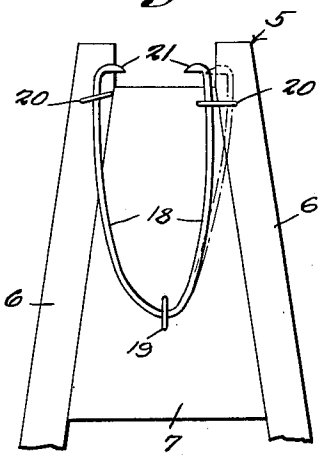


Fig. 3.



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TRUSS FOR QUILTING FRAMES

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3 Claims. (Cl. 304—5)

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This invention relates to a quilting frame truss, the primary object of the invention being to provide a truss which may be removably attached to a quilting frame or the like to rigidly support the quilting frame during the quilting of a quilt positioned thereon.

An important object of the invention is to provide a support or truss of this character which may be readily and easily removed from the quilting frame and folded into a small and compact article for storing or transportation.

Still another object of the invention is to provide a truss of this character which is provided with means for firmly securing the quilting frame to the truss, eliminating the necessity of using securing bolts, set screws or the like to attach the quilting frame thereto.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

Referring to the drawing

Figure 1 is a perspective view illustrating a truss, constructed in accordance with the invention as secured to a quilting frame.

Fig. 2 is a disconnected perspective view, illustrating one of the securing clamps and the connection between the clamp and brace rods.

Fig. 3 is a fragmental elevational view illustrating the upper portion of one of the jacks or leg sections of the support.

Referring to the drawing in detail, the truss comprises a pair of sections, each section embodying a pair of jacks indicated generally by the reference character 5, each jack comprising legs 6 connected at their upper ends by means of the supporting blocks 7, which blocks have their upper ends spaced from the upper ends of the legs 6, providing a recess of a width equal to the width of the side rails of a quilting frame, which in the present showing is indicated by the reference character A. The lower ends of the legs 6 are spaced apart, and held in such spaced relation by means of the rungs 8. Each section of the truss, also includes a spring clamp embodying pivotally connected jaws 9 having teeth 10 so constructed and arranged that when the jaws are positioned over the side rail of the quilting frame, the teeth may be embedded therein, to hold the spring clamp in position. As clearly shown by

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Fig. 2 of the drawing, a coiled spring 11 is coiled around the pivot bolt 12 of the clamp, and has its ends connected to the opposite jaws, so that as the jaws are pivoted in one direction, the coiled spring will be placed under tension, to urge the jaws into engagement with the side edges of the quilting frame. The end 13 of the spring 11 extends rearwardly and fits under the jaw 9 at one side of the clamp, while the end 14 of the spring extends in the opposite direction, and gets under the jaw at the opposite side of the clamp.

The bolt 12 is of a length so that portions thereof extend beyond the ends of the spring clamps, where they provide attaching means for attaching the clips 15 thereto, there being provided nuts on the ends of the bolt to hold the clips 15 in position thereon.

Each clip is provided with a tubular portion 16 to which the U-shaped brace rods 17 are pivotally connected, the free ends of the brace rods being extended at right angles and disposed within openings formed in the legs 6, pivotally connecting the brace rods to the legs, and at the same time providing means whereby the legs may be disconnected from the rods to facilitate folding and storing the truss.

As clearly shown by Fig. 3 of the drawing, spring arms 18 are provided and secured to the supporting blocks 7, preferably on the inner sides thereof, the spring arms being held in position by means of the staples 19 and 20, the staples 20 being elongated so that the prongs 21 formed at the free ends of the arms 18 may move laterally with respect to the legs 6, and embed themselves in the side edges of the quilting frame supported by the truss. Due to this construction, it will be obvious that the quilting frame will be rigidly supported and pivotal movement of the frame with respect to the truss, will be prevented when the truss is used in supporting a quilting frame during the quilting operation.

From the foregoing it will be seen that due to the construction shown and described, I have provided a quilting frame truss which may be readily and easily removed or positioned for supporting a quilting frame or the like, the truss when removed being capable of folding into a small and compact article to facilitate transportation and storing of the truss.

Having thus described the invention, what is claimed is:

1. A truss of the class described, comprising a clamp adapted to be removably clamped to the side bar of a quilting frame, pairs of supporting legs, supporting blocks secured between the sup-

porting legs at points spaced from the upper ends of said legs providing a space for the reception of the side rail of a quilting frame, spring arms secured to said blocks, piercing prongs extending inwardly from the ends of said spring arms and adapted to embed themselves in the side rail of the quilting frame above the legs with which the truss is used, and pivoted brace rods connected with the clamp and legs, holding the legs against movement longitudinally of the side rail of the quilting frame.

2. In a quilting frame, supporting legs, a frame section, means for securing the frame section to the supporting legs, said means comprising substantially U-shaped spring arms, elongated staples secured to said legs in which said spring arms operate, prongs formed at the ends of said spring arms adapted to be driven into the frame section securing the frame section to the legs, and brace rods connecting said leg members with said frame intermediate the ends of the frame.

3. In a quilting frame, supporting legs, a frame section removably mounted on the supporting

legs, U-shaped brace rods connected with the legs, clamps including spring-pressed jaws, a bolt having threaded ends on which said jaws are pivotally mounted, clips secured to said U-shaped brace rods, said clips having openings fitted over the threaded ends of said bolts of the clamps removably connecting the brace rods to said clamps, and teeth formed on said jaws adapted to bite into the frame securing the clamps to the frame.

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