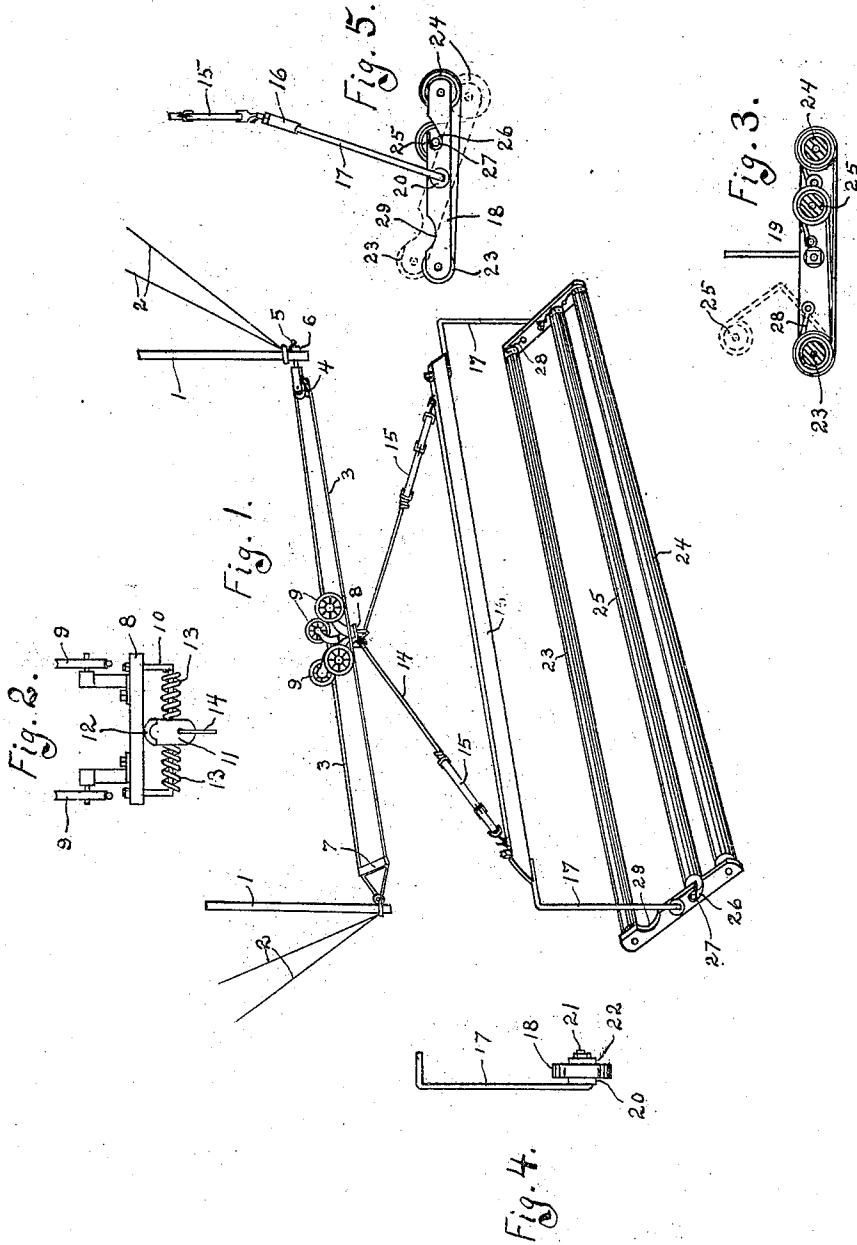


J. R. RUSSELL.
 QUILTING DEVICE.
 APPLICATION FILED JAN. 2, 1909.

960,709.

Patented June 7, 1910.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN R. RUSSELL, OF STERLING, ILLINOIS.

QUILTING DEVICE.

960,709.

Specification of Letters Patent.

Patented June 7, 1910.

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To all whom it may concern:

Be it known that I, JOHN R. RUSSELL, a citizen of the United States, residing at Sterling, in the county of Whiteside and State of Illinois, have invented certain new and useful Improvements in Quilting Devices, of which the following is a specification.

My invention has reference to quilting devices, of that class which are supported so as to be manipulated with reference to the table of a sewing machine, while in operation, and produce designs of a desired pattern on the quilt. In devices of this class it is necessary to have the frame supported in such a way as to permit it to respond at once to the touch of the operator, and move quickly in any desired direction. This is one of the ends which is attained in my invention by the use of novel mechanism, and other advantages thereof will more fully appear in the following specification, reference being had to the drawings accompanying the same, in which—

Figure 1 is a view of my device, in perspective. Fig. 2 is an enlarged detail, showing the supporting truck in side elevation. Fig. 3 is a section transversely of the frame. Fig. 4 is a detail, showing one of the end pieces of the frame, and manner of securing the hanger 17 thereto. Fig. 5 is an end view of the frame and hanger.

Similar numbers refer to similar parts throughout the several figures.

1—1 are the lower portions of supports, depending from the ceiling of a room, and held from being drawn toward each other by means of stays 2—2. To the lower end of one of the supports is attached a wire or cable 3, which passes around a pulley 4, secured to the other support 1 by means of a threaded shank 5 passing through such support, and provided on its outer end with a nut 6. At the end opposite to the pulley 4 the wires are held apart in parallel position by means of a spreader 7.

On the wires 3 is supported a truck, comprised of a cross-bar 8 and two pair of grooved wheels 9 attached thereto, and adapted to operate upon the wires 3. Fixed to the cross-bar 8 is a hanger 10, engaged by a block 11 and pulley 12. At each side of the block 11 the hanger 10 is provided with a coiled spring 13. Secured in the lower part of the block 11 is a cord or wire 14, provided at its ends with straps 15, attached

near the ends of a bar 16. To the ends of the bar 16 are attached hangers 17, to the lower ends of which are pivotally secured the end-pieces 18 and 19 of the frame. The lower end of each of the hangers is turned inwardly at right angles, and provided with a plate 20, the inner end of the projection being threaded and provided with a nut 21, between which and the end-piece of the frame is interposed a perforated plate 22. By this means the end pieces can be clamped between the plates 20 and 22 sufficiently to permit such end-pieces being held in adjusted positions with reference to the hangers 17.

In the end-pieces 18 and 19 are rotatably mounted a pair of side rollers 23 and 24, and an auxiliary roller 25. The end-piece 18 is provided in its upper edge with a recess 26, engaged by a pin 27 in the end of the roller 25, by which means such roller can be released from the frame. All of the rollers can be held from rotation, when desired, by means of hooks 28 on the inner face of the end-piece 19, engaging one of a series of perforations in the ends of such rollers. This means is recognized as old, however, and nothing is herein claimed broadly thereon. The end-piece 18 is provided with a recess 29, which permits the passage of the frame beneath the needle-bar of a sewing machine, without detaching the parts of the frame.

In operation one layer of cloth extends from the lower side of the roller 25 to the lower side of the roller 23, and another layer from the lower side of the roller 24 to the lower side of the roller 23, as indicated in Fig. 3. The work of the machine is then done between the rollers 23 and 25, the frame being moved in a direction to correspond with the figures which it is desired to produce on the quilt with the stitches of the machine. If it is desired to place any material, such as cotton, between the layers of cloth, this can be accomplished by releasing and raising the roller 25, as shown in broken lines in Fig. 3.

It is obvious that the frame will be permitted a free movement longitudinally by reason of the movement of the pulleys 9 upon the cables 3, and a limited side movement in either direction is permitted by the springs 13, the movement of the frame to one side or the other being followed by the block 11 on the hanger 10. At the same time the springs 13 prevent any sudden or abrupt movement or stoppage of the block.

When the space between the rollers 23 and 25 has been quilted the cloth is rolled upon the roller 23 until another width of the quilt is ready for the stitching operation.

5 When the cloth is first placed in the frame the weight thereof is upon the rollers 24 and 25, as shown in Fig. 5, resulting in a tipping of the frame downwardly at that side, as shown in broken lines. At the same time

10 the hangers 17 are thrown out of vertical position and toward the weighted rollers. To overcome this difficulty, and cause the frame to operate upon the table of the machine in a horizontal position, the weighted

15 side is drawn upwardly by the operator, without changing the position of the hangers, until it regains its horizontal position, in which position it is held by the clamping means hereinbefore described. As the

20 weight of the material is gradually transferred to the roller at the other side of the frame the end-pieces are correspondingly adjusted, so as to keep the frame in a horizontal position at all times.

25 By means of the threaded shank 5 and nut 6 the wires 3 can be tightened, and the straps 15 can be adjusted to vary the height of the frame.

I do not wish to be understood as limiting myself to the exact construction of the device which is herein shown and described, as changes can be made therein without departing from the spirit of the invention.

What I claim as my invention and desire

to secure by Letters Patent of the United States, is:

1. In a device of the class named, a pair of suitably supported cables: a truck, longitudinally movable thereon; a hanger, secured to said truck; a block, provided with a pulley, operating upon said hanger transversely of the line of movement of said truck; a pair of springs, supported on said hanger on opposite sides of the block; a bar, swingingly supported from said block, and provided at its ends with supporting hangers; and a quilting frame, pivotally supported by said hangers.

2. In a device of the class named, the combination with the wires 3 and cross-bar 8 supported thereon so as to be longitudinally movable thereof; a hanger 10, supported from said cross-bar, and provided with springs 13; a block 11, engaging the hanger 10, and provided with a pulley 12 operating upon said hanger; a wire 14, attached to the block 11, and provided at its ends with straps 15; a bar 16, supported by the wire 14, and provided at its ends with hangers 17; and a quilting frame, pivotally supported by the hangers 17.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN R. RUSSELL.

Witnesses:

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A. K. HABERER.