

(No Model.)

2 Sheets—Sheet 1.

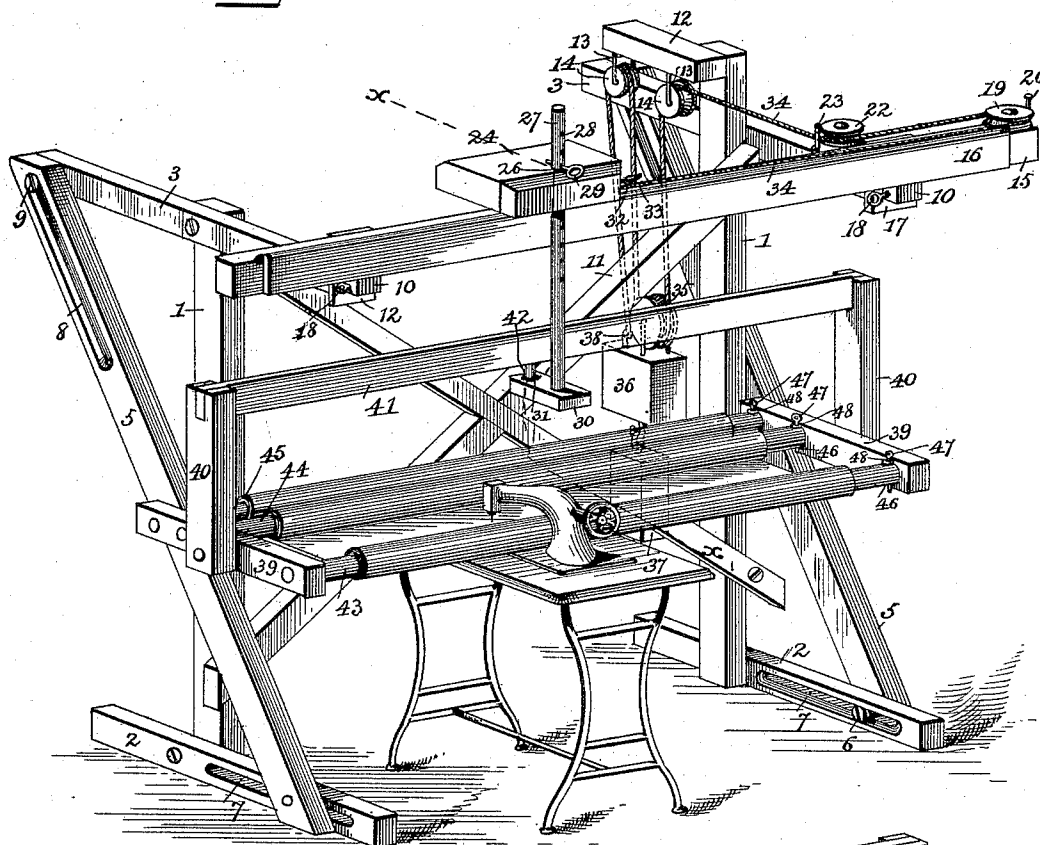
J. S. DICKEY.

QUILTING ATTACHMENT FOR SEWING MACHINES.

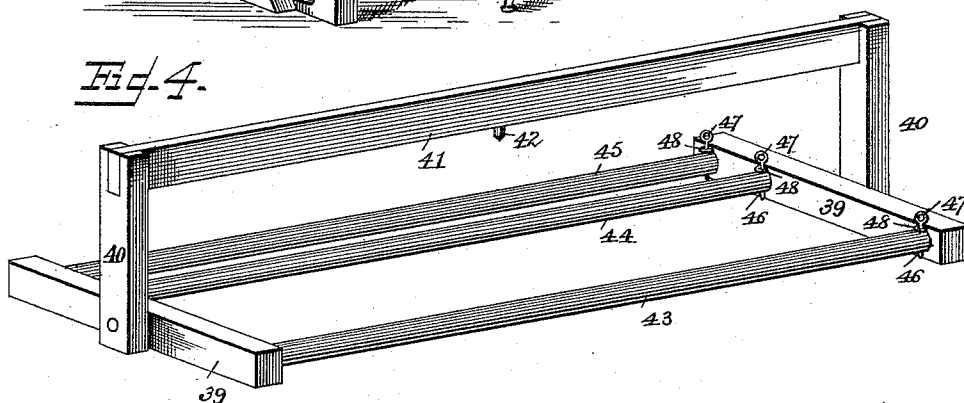
No. 488,350.

Patented Dec. 20, 1892.

Fig-1.



Ed. 4.



Witnesses

Inventor

Chas H. Curand

John S. Dickey

By *his* Attorneys,

Chas. E. Fyfe

Chas. Knowlton

(No Model.)

2 Sheets—Sheet 2.

J. S. DICKEY.

QUILTING ATTACHMENT FOR SEWING MACHINES.

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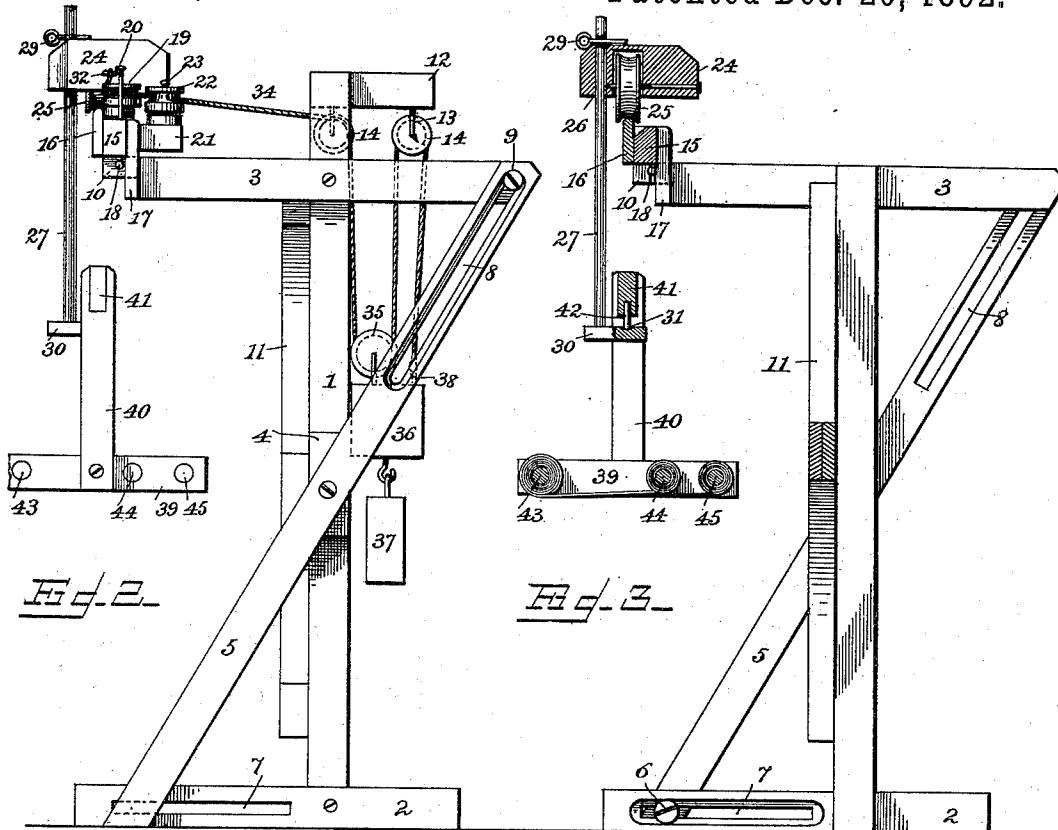
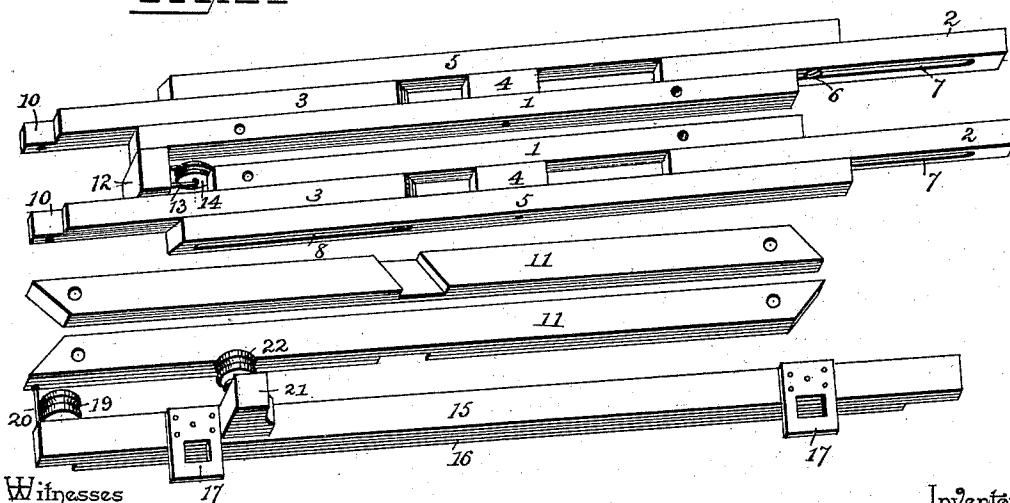


Fig. 5



Witnesses

Inventor

Chas. H. Curand

John S. Dickey

By his Attorneys,

Chas. S. Ayer

Cashow & Co.

UNITED STATES PATENT OFFICE.

JOHN S. DICKEY, OF BLANKET, TEXAS.

QUILTING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 488,350, dated December 20, 1892.

Application filed May 9, 1892. Serial No. 432,292. (No model.)

To all whom it may concern:

Be it known that I, JOHN S. DICKEY, a citizen of the United States, residing at Blanket, in the county of Brown and State of Texas, have invented a new and useful Quilting-Frame, of which the following is a specification.

This invention relates to certain new and useful improvements in quilting frames, and consists in the construction and arrangement of the parts thereof as will be more fully hereinafter described and claimed.

The object of this invention is to provide a quilting frame which can be conveniently folded and arranged in compact form for storage or transportation, and one wherein the parts are simple and effective in their operation, strong and durable, easily and readily handled and understood, and comparatively inexpensive in manufacture.

In the drawings—Figure 1 is a perspective view of the improved frame set in position for operation and illustrated in connection with a sewing-machine arm. Fig. 2 is an end elevation of the same. Fig. 3 is a cross-section on the line $x-x$, Fig. 1. Fig. 4 is a detail perspective view of the quilting frame removed. Fig. 5 is a view showing the parts folded and disconnected.

Similar numerals of reference indicate corresponding parts in the several views.

Referring to the drawings, the numeral 1 designates uprights, having base-strips 2, pivoted to the lower ends thereof, and upper strips 3 which are in like manner pivoted, and said strips 2 and 3 are adapted to be folded up against the said standards 1 when the device entire is arranged for storage or transportation. Blocks 4 are secured to standards 1, and to the said blocks 4 are pivotally connected cross-braces 5. The lower ends of said cross-braces 5 are provided with headed pins or studs 6, which are movably mounted in slots 7, extending longitudinally of the cross-strips 2. The opposite ends of the cross-braces 5 are formed with longitudinal slots 8, which are engaged by headed pins or studs 9, secured to the ends of the upper cross-strips 3; and the opposite ends of said cross-strips 3 are formed with tenons 10. By the slotted

and pivoted construction set forth, the parts are made collapsible, as will be readily understood.

To provide stability for the uprights 1, they are connected by diagonally disposed crossed braces 11, which are centrally mortised and fitted over each other to form a tight joint. To the upper end of one of the uprights 1 is secured an arm 12, from which depend hangers 13 carrying sheaves or pulleys 14. A bar 15 is provided, which has a flanged track 16, projecting upward from one edge thereof. This bar is provided with depending slotted arms 17, which are fitted over the tenons 10 of the upper cross-strips 3 and held in position by keys 18, which are passed through openings in the said tenons 10. One end of the said bar 15 has a pulley 19, fixed thereon in horizontal position with a guard 20 adjacent thereto; and from one side of the said bar 15, projects a block or arm 21, on which is horizontally disposed a pulley 22, having a guard 23 adjacent thereto. On the said track-bar 15 is movably mounted a carriage-block 24, which has a flanged wheel 25 therein to take over the track 16 of the said track-bar 15, and transversely-extending through one side of the said carriage-block, in a vertical plane, is an opening 26 in which is adjustably fitted an upright or rod 27, having a series of openings 28 therein adapted to receive a key 29, for holding the same in adjusted position in connection with the said carriage-block. The lower end of the rod or upright 27 is provided with a horizontally-disposed foot 30, having a recess 31 therein for a purpose which will be hereinafter set forth. One end of the carriage-block 24 is provided with an eye or loop 32, to which is removably attached a hook 33, on the end of a rope, 90 chain, or cable 34, which passes around pulleys 19, 22, and 14, and over a pulley 35 supported on the upper portion of a block 36, having a weight 37 connected to the lower portion thereof. Adjacent to the said pulley 35 of the block 36 is an eye 38 to which the opposite terminating-end of the rope, chain, or cable 34 is connected.

The quilting frame proper comprises end strips 39, to which are pivoted uprights 40, 100

having a top connecting-strip 41, which provides a hanger for said quilting frame, whereby the latter may be readily moved, and said cross-strip 41 has a stud or pin 42, projecting from the lower edge thereof to engage the recess 31 of the foot 30 connected to the upright 27, by which the said quilting frame is suspended and is allowed to move laterally and horizontally, as well as in vertical planes, as will be readily seen. To one of the end strips 39 are pivotally secured the ends of rollers 43, 44, and 45, the opposite ends of which are removably fitted in the opposite end-strip 39 and formed with openings 46 to receive keys 47, passing therethrough and through eyes 48 secured to the adjacent end strip 39, and by means of which the said rollers are held in adjusted position. The end strip 39 to which the eyes 48 are secured is formed with sockets to receive the adjacent ends of the rollers 43, 44, 45, and the latter are removed therefrom when the keys 47 are disconnected by springing the said end strips apart. The roller 43 is in front and next to the operator, and thereon is wound the completed portion of the quilt. On the roller 45 the cover or top of the quilt is primarily wound, and on the roller 44 is wound the lining; and these rollers are placed in such position that the cotton batting or wadding or the filling whatever it may be, is adapted to be readily inserted in position between the covering and lining. The rollers 44 and 45 are arranged closely together, and the roller 44 is located at some distance from the roller 43, in order that the sewing or quilting operation may be conveniently carried on between the said rollers 43 and 44. By means of the removability of the several rollers in the manner stated, the quilt can be removed therefrom at pleasure or a new piece of work be placed thereon, as found desirable. It will be seen that through the medium of the adjustable and free suspension of the quilting frame proper, various designs may be more readily worked up in the surface of the quilt, as the said frame is readily turned in any position and at any angle found necessary and desirable in the execution of the required design. As has been set forth, the quilting frame proper is connected to the carriage-block 24, and may be adjusted in elevation through the medium of the rod 27.

In starting the operation of quilting, the carriage-block 24 is moved to the extreme left of the track-bar 15, so as to bring one end of the quilt under the arm of the sewing-machine. As the stitching progresses, the carriage-block 24 gradually moves the quilting frame proper through the medium of the weight or counterpoise 37, the latter being ad-

justed or arranged to such a degree of tension as to compensate equally with the feed of the machine by which the quilt is being sewed. When the carriage-block 24 reaches the right end of the track-bar 15, the parts are so proportioned that the end of the quilt will have been reached and the quilt with its frame is then drawn back as in starting by moving the carriage-block 24 to the left end of the track-bar 15.

When the device is in disuse, or it is desired to transport the same, the several parts may be readily disconnected and folded up through the adjustability and disconnectible feature of construction hereinbefore set forth.

Having thus described the invention, what is claimed as new is—

1. In a quilting frame, the combination of a track-bar, horizontally disposed pulleys mounted at one end of said track bar, an upright carrying vertically disposed pulleys at a distance from the aforesaid pulleys a carriage block movably mounted on said track-bar and carrying a vertically adjustable foot, a cord secured to said carriage block at one end and passing over said pulleys, a weight having a pulley in connection therewith over which said cord also passes and to which the opposite end of the latter is secured, and a quilting frame proper freely suspended from said foot, substantially as described.

2. In a quilting frame, the combination of a single track bar, a carriage block having a grooved roller or wheel engaging said track bar and a vertical opening therein, a standard or rod vertically adjustable in the opening of said carriage block and having a foot secured to the lower end thereof and provided with a recess in the upper side near its free end, and a quilting frame proper having a vertically depending pin or stud loosely engaging said recess of the foot, whereby the said frame is freely suspended, substantially as described.

3. In a quilting frame, the combination of lower slotted cross-strips, upper cross-strips with headed pins or studs at one end thereof, uprights connecting said cross strips, and cross-braces having studs at the lower ends thereof engaging the slots of the lower cross-strips and slots at the upper ends thereof engaging the headed studs or pins of the upper cross-strips, the said parts being pivotally connected for the purpose of folding, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN S. DICKEY.

Witnesses:

BOYKIN OWENS,
HENRY CORDELL.