

(No Model.)

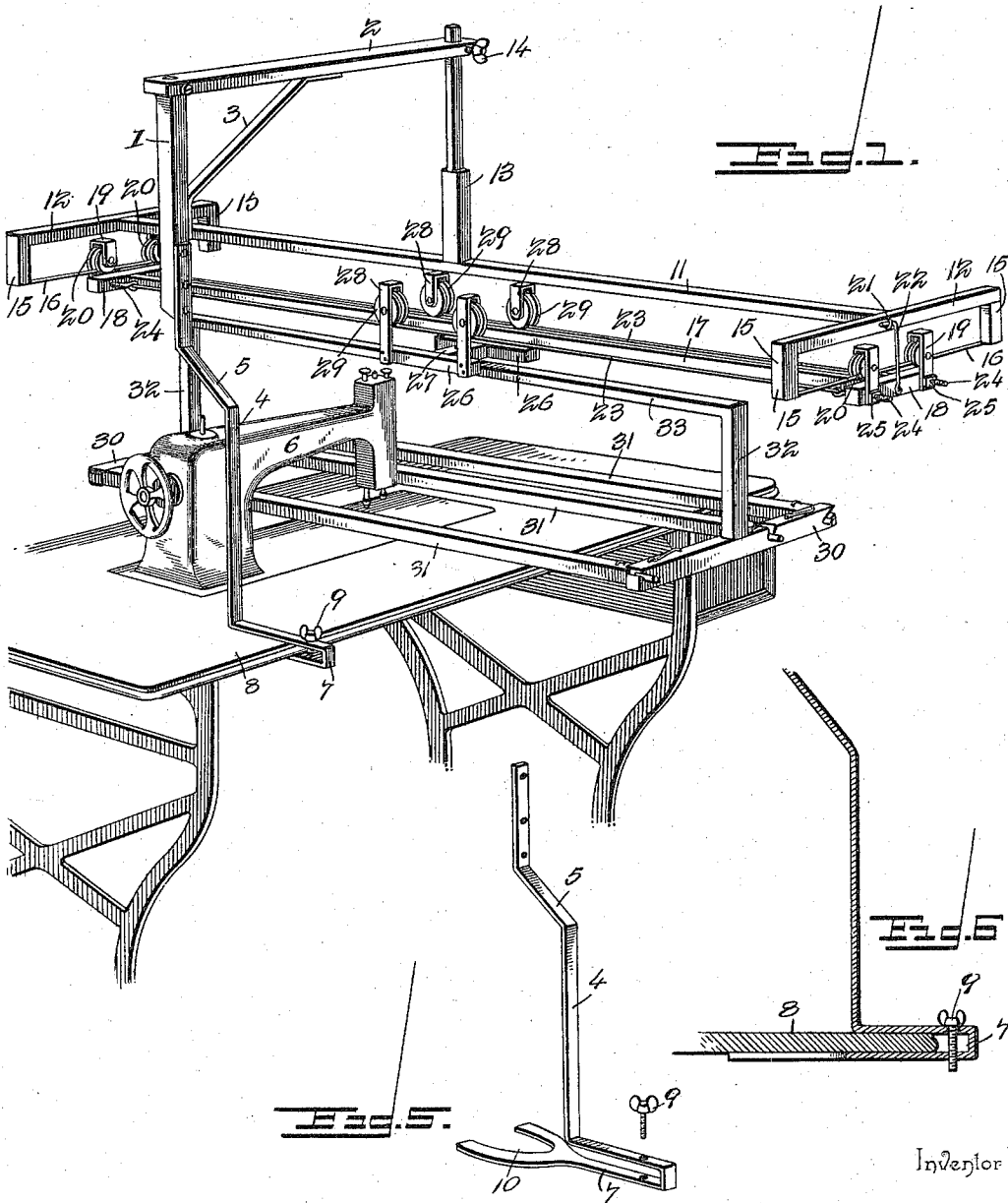
2 Sheets—Sheet 1.

J. E. KING.

QUILTING ATTACHMENT FOR SEWING MACHINES.

No. 580,495.

Patented Apr. 13, 1897.



Witnesses

E. B. Stewart.
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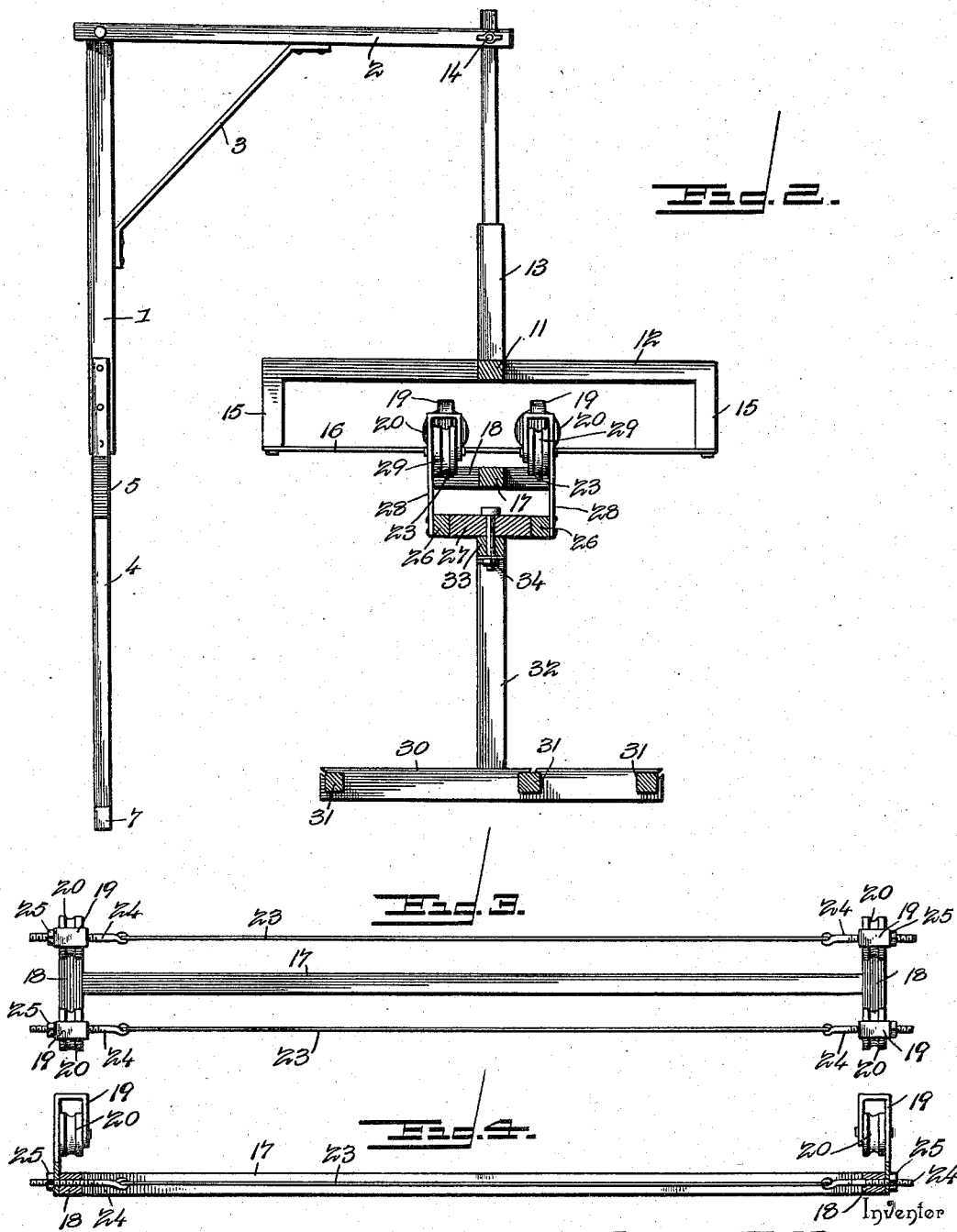
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UNITED STATES PATENT OFFICE.

JAMES E. KING, OF ENNIS, TEXAS, ASSIGNOR OF ONE-HALF TO E. B. SMITH,
OF SAME PLACE.

QUILTING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 580,495, dated April 13, 1897.

Application filed August 5, 1896. Serial No. 601,776. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. KING, a citizen of the United States, residing at Ennis, in the county of Ellis and State of Texas, have invented a new and useful Quilting-Frame, of which the following is a specification.

This invention relates to quilting attachments for sewing-machines.

The purpose of the invention is to devise an attachment which can be applied to the table of a sewing-machine and removed therefrom at a moment's notice and which can be taken apart when required and reduced to a small package for the purpose of storing or placing aside when not required for immediate use.

For a full understanding of the merits and advantages of the invention reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view showing the invention as it will appear when in service. Fig. 2 is a cross-section thereof. Fig. 3 is a top plan view of the frame bearing the tracks upon which the carriage supporting the quilting-frame runs. Fig. 4 is a longitudinal section of the frame shown in Fig. 3. Fig. 5 is a detail view of the clamp for securing the attachment to a sewing-machine table. Fig. 6 is a detail view showing the clamp applied.

Corresponding and like parts are referred to in the following description and indicated in the several views of the accompanying drawings by the same reference-characters.

The crane for supporting the operating parts comprises a post 1, horizontal arm 2, brace 3, and bar 4, the latter being secured at its upper end to the lower portion of the post 1 and having an offset 5, so as to throw the horizontal arm 2 directly over the arm 6 of the sewing-machine. The lower end of the bar 4 is bent to provide a clamp 7, which is designed to receive an edge portion of the

sewing-machine top or table 8 between its parallel members, the latter being secured and caused to grip the sides of the table by means of a binding-screw 9, passing through vertically-registering openings in the clamp members a short distance from their connected ends. The lower member of the clamp projects beyond the upper member, and its free end is forked, as shown at 10, so as to obtain an extended bearing against the under side of the table, thereby preventing any tilting of the crane when the attachment is in operation.

A frame comprising a longitudinal bar 11, cross-bars 12 at the ends of the bar 11, and a stem 13 is suspended from the free or outer end of the arm 2, the latter having an opening in which the stem 13 is adjustably held by means of a binding-screw 14, thereby admitting of the frame being raised and lowered to accommodate the quilting-frame to the height of the sewing-machine table, whereby the work may pass comfortably beneath the presser-foot and needle-bar. The cross-bars 12 have pendent terminals 15, which are connected at their lower ends by wires 16, forming tracks for a lower frame to travel upon.

The lower frame is similar in construction to the upper frame and comprises a longitudinal bar 17 and end cross-bars 18. Hangers 19 are secured to the end portions of the cross-bars 18 and are supplied with grooved pulleys 20, which are adapted to travel upon the tracks 16. The movement of the lower frame is transversely of the upper frame, and when it is required to fix the position of the lower frame it is secured to the upper frame by any suitable means, which, as shown, consist of an eye or staple 21 and a hook 22. Wires 23, forming tracks, extend parallel with the longitudinal bar 17 and are secured at their ends to the terminal portions of the cross-bars 18, preferably by means of threaded stems 24, passing through openings in the cross-bars 18, and nuts 25, mounted upon the projecting ends of the threaded stems, whereby the said stems can be adjusted longitudinally to subject the wires 23 to the requisite tension, so as to properly support the carriage provided to travel thereon.

The carriage bearing the quilting-frame

consists of parallel bars 26, a cross-bar 27, hangers 28, and grooved pulleys 29, the latter being mounted in the upper portion of the hangers and adapted to travel upon the tracks 23. The bars 26 are of equal length, and the hangers 28 are secured to the terminals thereof.

The quilting-frame, which may be of any desired construction, is suspended from the carriage and, as shown, consists of end bars 30, rollers 31 to receive and support the goods to be quilted, uprights 32, and a longitudinal bar 33, connecting the upper ends of the uprights 32 and secured intermediate of its ends to the cross-bar 27 by means of a bolt or like fastening 34.

The quilting-frame proper moves longitudinally upon the tracks 23 and has a lateral movement with the aforesaid lower frame upon the tracks 16, thereby admitting of a variety of movement, so that the quilting may be effected in any intricate design, pattern, or letter. For quilting in parallel lines the position of the lower frame is fixed relative to the upper frame. Hence the quilting-frame can then be moved in straight lines only across the sewing-machine table.

When the attachment is not required for immediate use, or it is required to store it, it can be easily and quickly disconnected from the sewing-machine by loosening the binding-screw 9, and upon loosening the binding-screw 14 the upper frame can be disconnected from the crane, and the carriage may be readily removed from the tracks 23 by moving the latter inward and passing them out through the space formed between the opposing pulleys 29.

The parts can be set up with despatch and quickly assembled when it is required to place the attachment in condition for use, substantially as shown in Fig. 1 of the drawings.

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

1. In a quilting attachment for sewing-machines, the combination of an upper frame comprising a longitudinal bar, end cross-bars having pendent portions at their extremities, and tracks connecting the said pendent portions, a lower frame similar in construction to the upper frame and comprising longitudinal and end cross-bars, hangers at the ends of the cross-bars of the lower frame provided with pulleys to travel upon the tracks of the upper frame, tracks extending parallel with the longitudinal bar of the lower frame and connected with the end portions of its cross-bars, and a carriage bearing a quilting-frame and adapted to travel upon the tracks of the lower frame, substantially as and for the purpose set forth.

2. A quilting attachment for sewing-machines constructed substantially as herein set forth, the same comprising a crane provided at its lower end with a clamp to admit of it being quickly attached to or removed from a sewing-machine table, an upper frame having adjustable connection with the horizontal arm of the crane and provided at its ends with tracks, a lower frame mounted upon the tracks of the upper frame, means for connecting the two frames, a carriage mounted upon the tracks of the lower frame, and a quilting-frame having connection with the carriage, substantially in the manner and for the purpose set forth.

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

JAS. E. KING.

Witnesses:

THOS. DU LANEY,
ROLAND R. BAMERS.