

(No Model.)

2 Sheets—Sheet 1.

G. A. STAFFORD.

QUILTING MECHANISM FOR SEWING MACHINES.

No. 526,465.

Patented Sept. 25, 1894.

Fig. 1

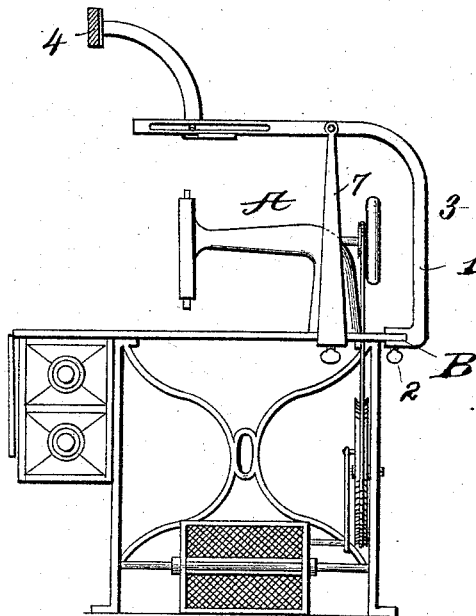
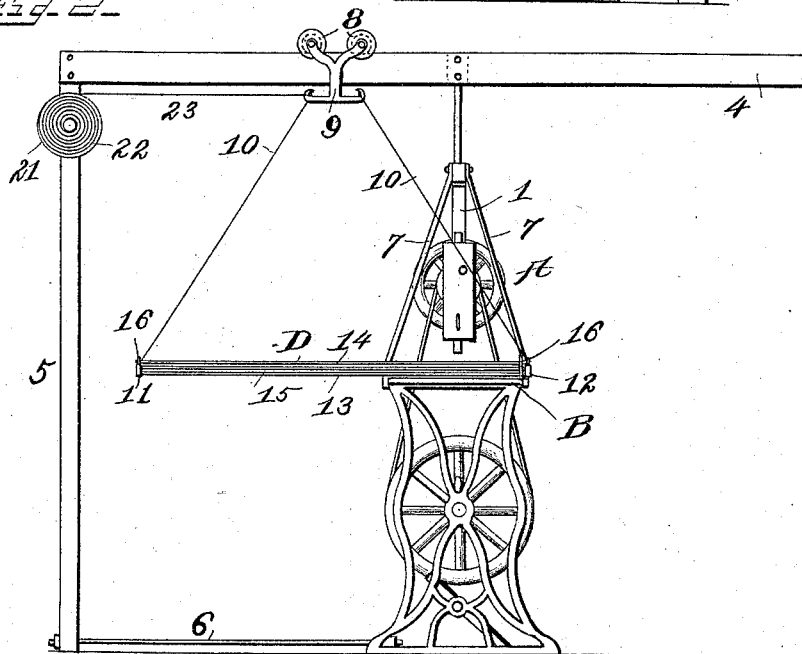


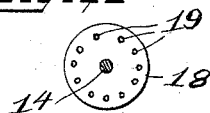
Fig. 2



Witnesses:

J. A. Taubenschmitt.
S. F. Marshall

Fig. 7



Inventor.

G. A. Stafford
By A. G. Heyman,
Attorney.

(No Model.)

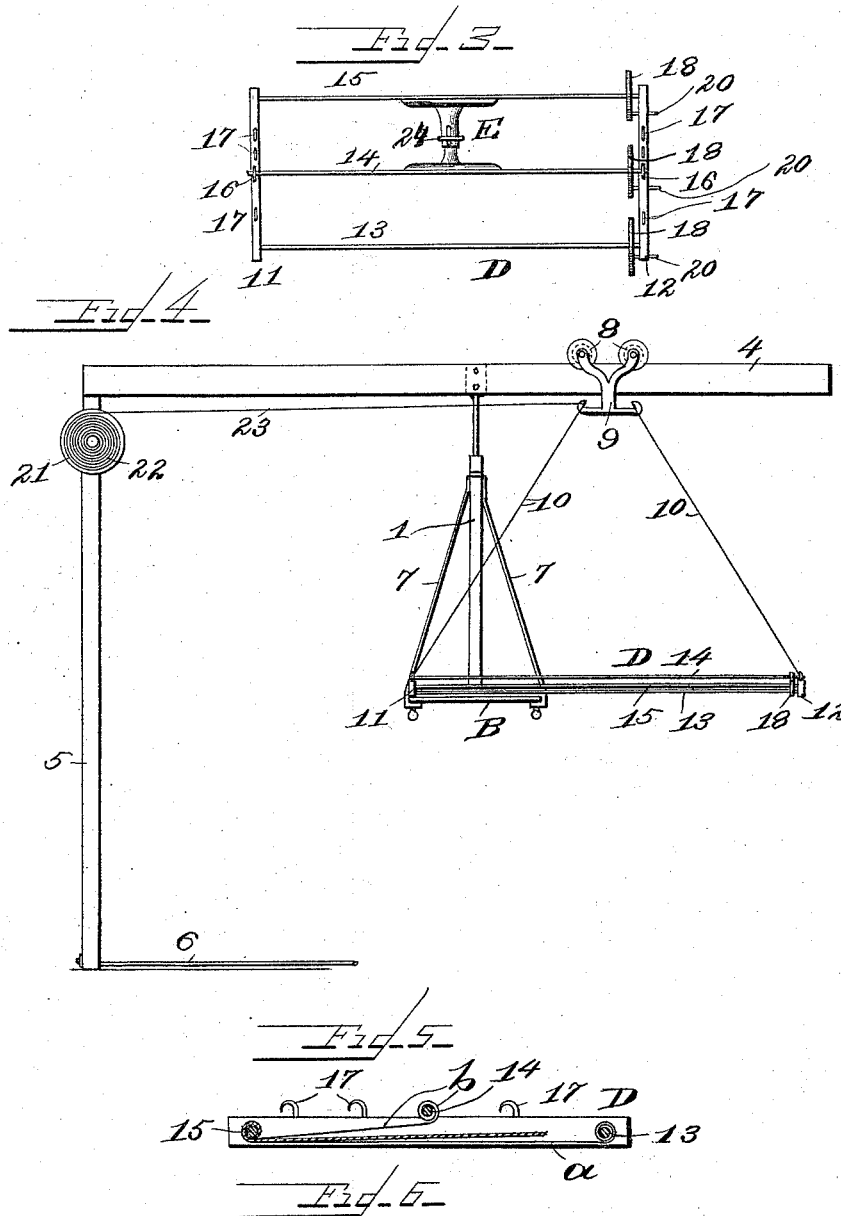
2 Sheets—Sheet 2.

G. A. STAFFORD.

QUILTING MECHANISM FOR SEWING MACHINES.

No. 526,465.

Patented Sept. 25, 1894.



Witnesses:

S. A. Taubenschmitt,

S. F. Marshall

Inventor.

Geo. A. Stafford

by A. G. Heylman,
Attorney.

UNITED STATES PATENT OFFICE.

GEORGE A. STAFFORD, OF MONTAGUE, TEXAS.

QUILTING MECHANISM FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 526,465, dated September 25, 1894.

Application filed February 1, 1894. Serial No. 498,784. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. STAFFORD, a citizen of the United States of America, residing in Montague, in the county of Montague, in the State of Texas, have invented a new and useful Quilting Mechanism to be Associated with Sewing-Machines, of which the following is a specification.

My invention has relation to improvements in quilting devices for use with sewing-machines; and the invention consists in the novel construction of parts and their combination as will be fully described and particularly pointed out in the claim.

In the accompanying drawings forming a part of this specification, Figure 1 is an end view of the quilting mechanism attached to a sewing machine. Fig. 2 is a side view in elevation showing the supporting mechanism and the swinging quilting frame. Fig. 3 is a plan view of the quilting frame. Fig. 4 is a side elevation showing the quilting frame drawn into position for the spring motor to operate. Fig. 5 is a transverse section through the frame. Fig. 6 is a detail of the stretcher or temple.

A designates a sewing machine of any of the usual makes, mounted and secured on a table B.

To the end of the table B is detachably secured the foot of an arm 1, by means of clamping-devices 2, which may be of any suitable construction. The arm 1 is carried substantially vertical a distance, as at 3, and thence projected over the overhanging arm of the machine, as shown in Fig. 1 of the drawings; being parallel with the overhanging arm of the machine, the end being somewhat in advance of the head of the arm of the machine, as shown.

To the arm 1 is detachably and adjustably secured an arm 1^x, to the end of which is secured a track-rail 4, of such length as may be desired, the other end of the track-rail being supported by a leg 5, setting on the floor, and braced by a rod 6, having one end secured to the lower end of the leg and the other end detachably fastened to the leg or other part of the machine.

To brace and hold the arm 1 a forked brace 7, is secured thereto, the feet of the brace resting on the machine, substantially as shown.

On the track-rail 1 are arranged sheaves or grooved pulleys 8, journaled in a strap 9, loosely embracing the track-rail and having fastened to its lower end suspension-cords 10, which sustain the swinging-frame D, substantially as seen in Fig. 2 of the drawings.

D designates the quilting-frame suspended from the pulley-cords 10, and consisting of end-strips or pieces 11, 12, in which are journaled roller-bars 13, 14, 15. The bar 13 has the lining or under portion of the fabric *a*, rolled thereon. The bar 14 has the upper portion of the fabric *b*, rolled thereon, and the bar 15 has the finished quilt rolled thereon, so that between the rollers 13 and 14 there is a space left open and free at all times for the convenient insertion and arrangement of the batten or wadding of the quilt. This middle roller 14 is held in hooked bearings 16, in the end-pieces, or otherwise detachably held, so that it may be lifted out of its bearings, and the wadding laid on the lining beyond the position of the said roller, if desired. In the end-pieces are fixed hooks 17, to which the suspension-cord may be fastened to suit the position of the quilt at any time during the work. On each roller is fixed a disk 18, adjacent to the end piece of the quilting-frame, and in the disks are a number of pin-holes 19, through which fastening-pins 20, are projected, lodging in or on the end piece, to keep the rollers from turning and the fabric from loosening out.

On the post or leg 5 is journaled a grooved-wheel 21, on the axle of which is a coil-spring 22, adapted to operate the wheel in one direction, in the well-known manner, and in the groove of the wheel 21 is fastened one end of a pull-cord 23, having the other end fastened to the bracket or strap 9, as shown in Fig. 2 of the drawings, so that when the frame is pulled back against the force of the spring, and the feed of the machine dropped down, the force of the spring 22 will draw the frame with the quilt along under the needle of the machine, under the manipulations of the operator, and the quilting be accomplished. This spring mechanism makes the device a self-feeding one.

On the quilt between the rollers 14 and 15 may be placed a temple or stretcher E, consisting of two bars having stems adjustably

united, as shown, and adapted to be locked by a button or catch 24 as indicated in the drawings.

To operate my improved device, the arm 1 is secured to the table of the machine with the track-rail in position, and the quilting-frame suspended therefrom. The quilt is then arranged on the rollers in position to be engaged by the needle, and then drawn back, when the quilting may be proceeded with, and the line of stitches made across the fabric. When one line of stitches has been made, the frame is again drawn back and the operation of sewing repeated.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The quilting device, comprising the support

1 detachably secured to the table of the sewing machine and extended over and above and parallel with the overhanging arm of the machine, the arm 1^x detachably and adjustably secured to the free-end of the arm 1, a track-rail secured to the end of the arm 1^x and arranged transversely thereto, sheaves on the track-rail, a quilting-frame suspended from the sheaves, and a spring-motor to draw the sheaves and quilting-frame on the track-rail, all substantially as set forth.

In witness whereof I have hereto set my hand in the presence of two attesting witnesses.

GEO. A. STAFFORD.

Attest:

J. A. HILL,
B. W. NALLY.