

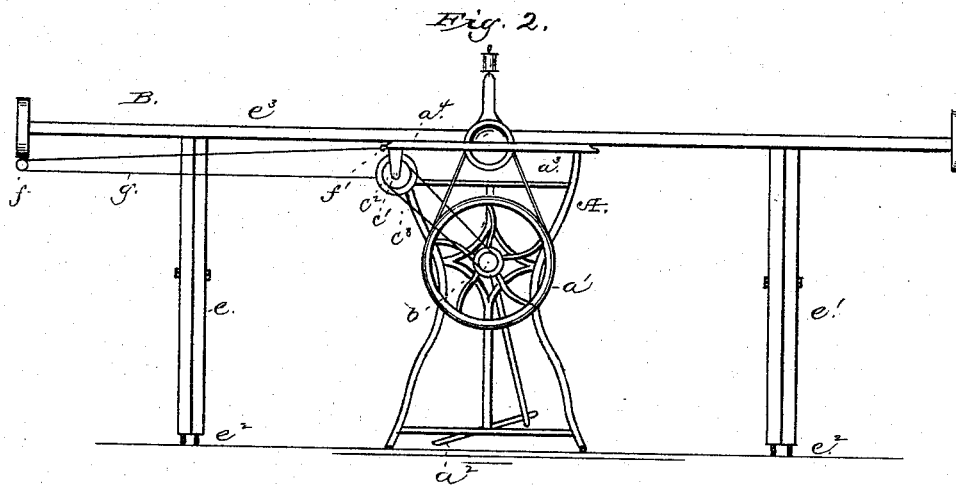
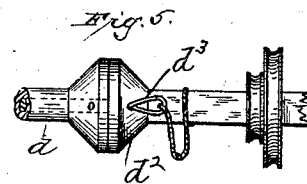
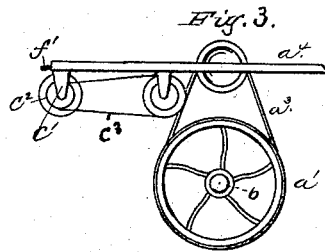
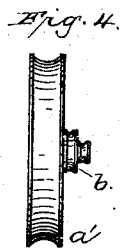
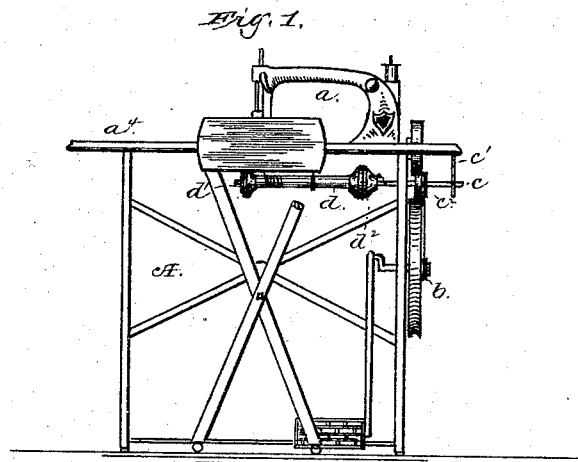
(No Model.)

F. M. GERMAN.

QUILTING ATTACHMENT FOR SEWING MACHINES.

No. 264,943.

Patented Sept. 26, 1882.



witnesses;

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UNITED STATES PATENT OFFICE.

FRANCIS M. GERMAN, OF BONHAM, TEXAS.

QUILTING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 264,943, dated September 26, 1882.

Application filed July 31, 1882. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS M. GERMAN, a citizen of the United States, residing at Bonham, in the county of Fannin and State of Texas, have invented certain new and useful Improvements in Quilting Attachments for Sewing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention has relation to improvements in quilting attachments for sewing-machines. It has for its object to connect the quilting-frame and the sewing-machine so that the action of the machine will automatically propel the quilting-frame; and it consists in the construction, combination, and arrangement of the several parts, as will be hereinafter fully described, and specifically pointed out in the claim.

In the drawings, Figure 1 is a front elevation. Fig. 2 is a side view. Fig. 3 shows a modification, and Figs. 4 and 5 are detail views somewhat enlarged, showing respectively the wheel *a'*, with pulley *b*, and the clutch mechanism on shaft *c*, as will be fully described.

A represents the sewing-machine, having arm *a* and drive-wheel *a'*, which is operated by treadle *a²*, and connected with the main shaft of the sewing-machine by band *a³*, in the usual manner.

a⁴ represents the sewing-machine table.

b represents a cone-pulley, fixed upon the hub of the drive-wheel *a'*, and grooved to receive the cords or bands which connect it with the pulley *c²*, hereinafter described.

c represents a shaft, which is journaled in hangers *c'* *d'*, depending from the sewing-machine table, near the front of the same.

c² represents a cone-pulley secured on shaft *c*. The portion of the shaft between the button, hereinafter described, and the hanger *c'* is made square or of some other angular shape, and the pulley is provided with a central angular opening, which fits the angular portion of the shaft, and the pulley is placed on and may be moved along this portion of the shaft

to bring it in line with the pulley *b*, whether the latter is arranged between or outside of the legs of the machine, and the pulley *c²* is connected with the pulley *b* by band *c³*. Thus, in the operation of the device, as the wheel *a'* is revolved, carrying the pulley *b*, the shaft *c* is also revolved by the connection between pulleys *b* and *c²*. The speed at which the shaft *c* is run may be regulated by adjusting the belt on the different-sized wheels of the cone-pulleys *b* *c²*, as is well understood. Ordinarily I prefer to secure the pulley *b* on the hub or shaft of wheel *a'*; but it is sometimes convenient to arrange it as shown in Fig. 3, in which arrangement it is suspended in a suitable hanger, and is interposed between the pulley *c²* and the main operating-band *a³*, so that it bears firmly against the latter. It receives its motion directly from the band *a³*, and by means of the intermediate band, *c³*, it imparts the desired motion to the pulley *c²*.

d represents a spool or bobbin sleeved on the shaft *c* between the hanger *d'* and a button or shoulder, *d²*, fixed on the shaft *c*. The shaft *c* will revolve freely within the spool *d* when the latter is not secured thereto. In order to secure the shaft and spool together, I place a pin, *d³*, through holes formed through the button *d²*, which is fixed on the shaft *c*, and into coincident holes formed through the head of the spool abutted against the said button. I prefer this arrangement because it is simple and efficient. Any suitable clutch mechanism, however, will answer the purpose, perhaps, quite as well.

B represents the quilting-frame. Its legs *e* are mounted on casters *e²*, so that it will readily roll along the floor, and its quilt-carrying arms *e³* are carried over the sewing-machine table *a⁴*, under the arm *a*, in proper position, so that the needle will work between them on the quilt.

f represents a pulley journaled in a suitable bracket at the rear or end of the frame, in front of the sewing-machine.

f' represents a screw-eye made fast in front of the table *a⁴*, over the spool *d*.

g represents a cord, which is secured and wound upon the spool *d*, carried back around the pulley *f*, and then extended and made fast to eye *f'*.

In the operation of my invention, when the spool is made fast to the shaft *c*, as described, and the several parts are in the position shown in Figs. 1 and 2, and motion is given to the shaft *c* by the mechanism described, the cord *g* will be wound up around the spool *d*, and the frame carrying the quilt is fed through across the machine, and by arranging the belts on the different sizes of the cone-pulleys, as described, the feed may be adjusted to the length and character of stitch desired, and the work is fed to the machine. The frame B, being mounted on the wheels *c*², moves easily over the floor. When the frame B has been run across the machine the clutch is released and the frame is drawn back by hand, and the described operation is repeated.

Having thus described my invention, what I

claim, and desire to secure by Letters Patent, is—

The combination, with the sewing-machine A, of the pulley *b*, the shaft *c*, provided with the pulley *c*² and suitable clutch mechanism, the spool *d*, sleeve *d*² on shaft *c*, the cord *g*, secured to spool *d* and carried around pulley *f*, secured on the end of the quilting-frame, and thence forward and secured to the sewing-machine, and the traveling quilting-frame B, substantially as and for the purpose set forth.

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

FRANCIS M. GERMAN.

Witnesses:

PRES. C. THURMOND,
M. J. B. YOUNG.