

J. W. BURNHAM.  
Sewing Machine.

No. 16,713.

Patented March 3, 1857.

Fig. 1,

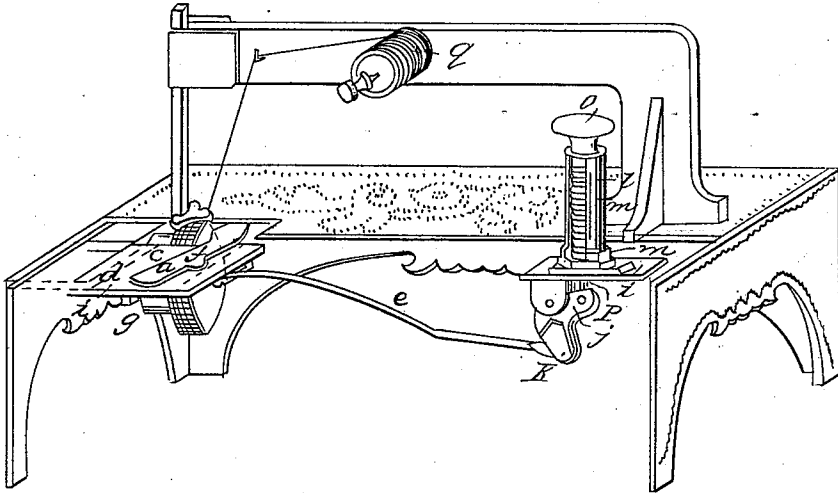


Fig. 2,

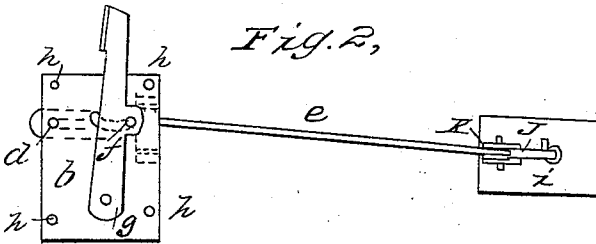


Fig. 3,

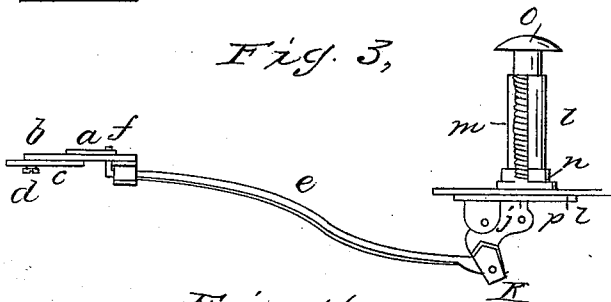


Fig. 4,

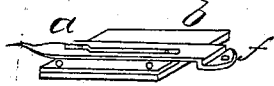


Fig. 5,

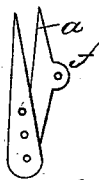
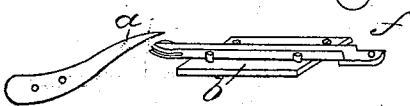


Fig. 6,



# UNITED STATES PATENT OFFICE.

JOSEPH W. BURNHAM, OF HARTFORD, CONNECTICUT.

## IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. 16,713, dated March 3, 1857.

*To all whom it may concern:*

Be it known that I, J. W. BURNHAM, of Hartford, county of Hartford and State of Connecticut, have invented a new and useful Improvement which I call a Sewing-Machine Attachment; and I do hereby declare that the same, as described and represented in the following specification and drawings, is sufficiently clear to enable others skilled in the art to make and use it, and I will proceed to describe the construction and operation, referring to the drawings, in which the same letters indicate like parts in each of the figures.

The nature of my improvement in sewing-machines consists in attaching to the machine a cutter or cutters in such a way as that by a quick motion of the hand on the pad when the machine stops its operation will clip or cut the thread under side of the work and leave the thread in readiness to commence sewing in another place, and constructed in various forms, so as easily to be adapted and arranged to all machines in use.

In the accompanying drawings, No. 1 shows an elevation exhibiting the whole arrangement at one view. No. 2 shows a portion of the attachment separate from the machine.

*a* is the knife.

*b* is the plate to which the knife is secured.

*c* is a stop or gage, regulated by a screw, *d*, to prevent a greater movement of the knife than is necessary, whereby its edge would be turned or blunted.

*e* is the connecting-rod, one end being turned up at right angles and entering the knife at *f*. The end of the knife is secured upon the plate by means of a stud or pin, *g*.

*h* are holes through which the screws pass and secure the plate to the under side of the machine.

*i* is the plate, having a prong or slotted stud to receive the angle-crank *y*, and made fast therein by a pin. The opposite end of the above connecting-rod *e* is secured in the lower end of the crank at *k*.

*l* is a hollow tube attached to the plate *i*, containing a spiral spring, *m*, and having a nut, *n*,

fitted upon said tube, so that when a hole is drilled through the machine in the desired place the tube *l* will enter from the under side and be secured, with the plate, to the machine thereby without any other fastening.

*q* is a pad, which is operated by a slight pressure of the hand downward when it is desired to cut the thread, and made about the same size of the inside of the tube *l*, a short distance down from the under side of the pad, and having a shank, *p*, extending through the spring *m* and tube *l*, and the end bent at right angles and entering the angle-crank *y* at one end.

*q'* is a spool of thread, which turns upon a projecting pin, and from which the thread is drawn as it is wanted.

*r* is the foot or guard, which holds the work from lifting while the machine is in operation, and having a hole in the foot for the thread to pass through, and which serves to keep the end of the thread in place and ready for a new operation after the thread has been cut.

Nos. 4, 5, and 6 show different ways of making my clipping or cutting attachments, so as to be applied to different machines, as I think I can more easily do on some machines than to use the one described above.

Thus it will be seen that by the use of this attachment much material and labor will be saved, and the machine becomes much pleasanter for the operator to use.

Heretofore the operator in all cases had to take up his knife and clip the thread by hand, and also arrange the thread for a new operation.

What I claim, therefore, as new, and desire to secure by Letters Patent, is—

The employment on sewing-machines of the mechanism hereinbefore described, so as to cut or clip the thread on the under side of the work.

JOSEPH W. BURNHAM. [L. S.]

Witnesses:

JEREMY W. BLISS,  
HENRY FRANCIS.