

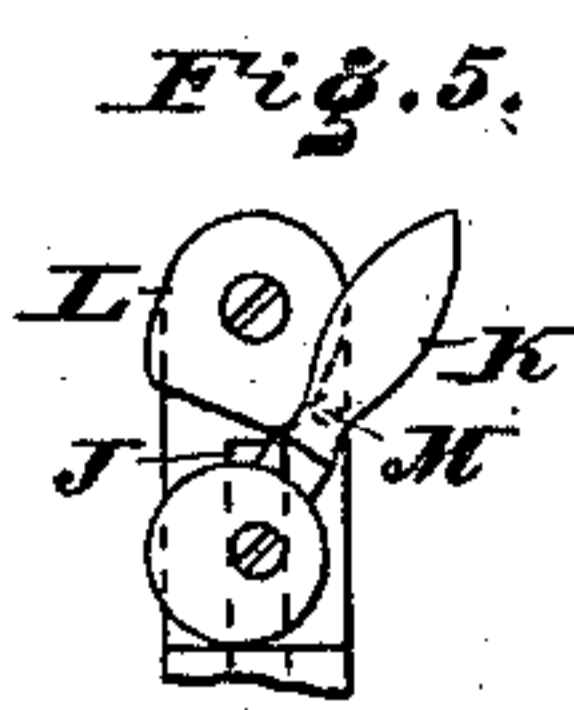
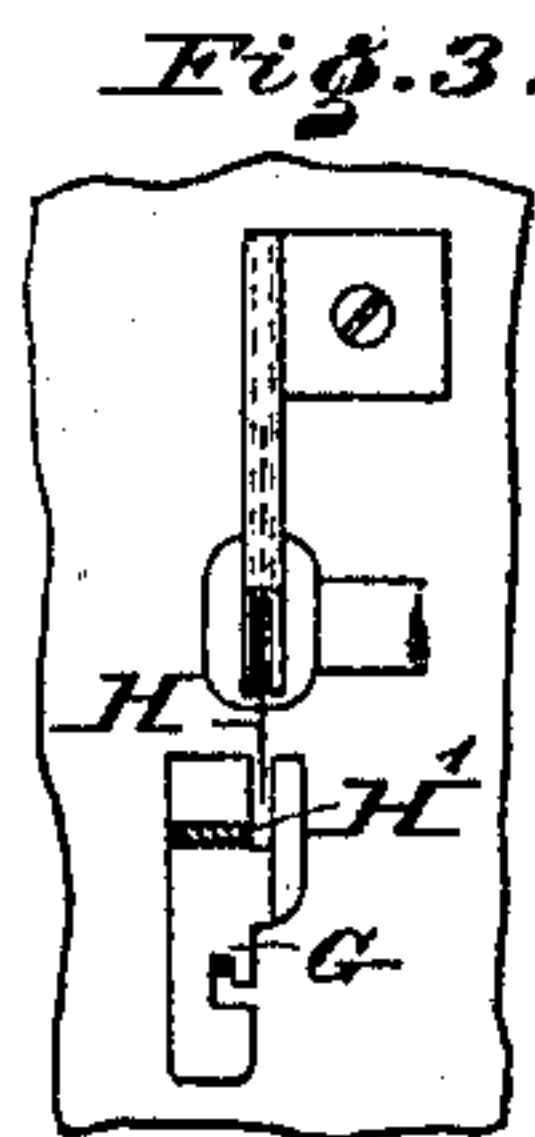
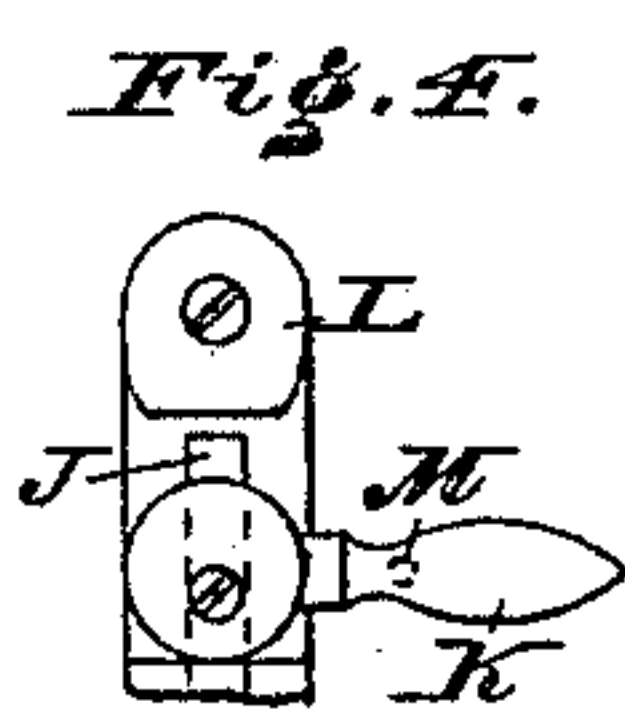
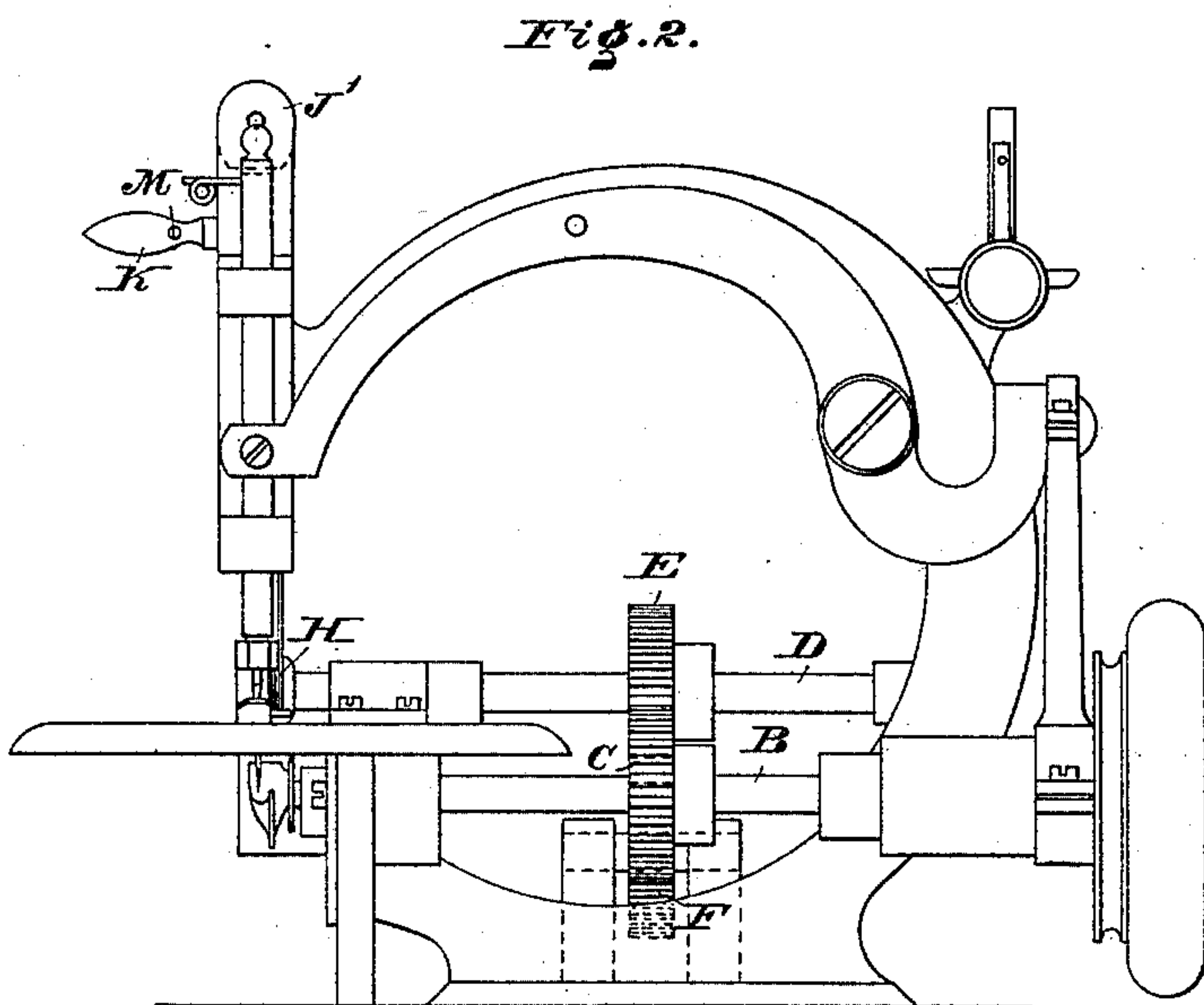
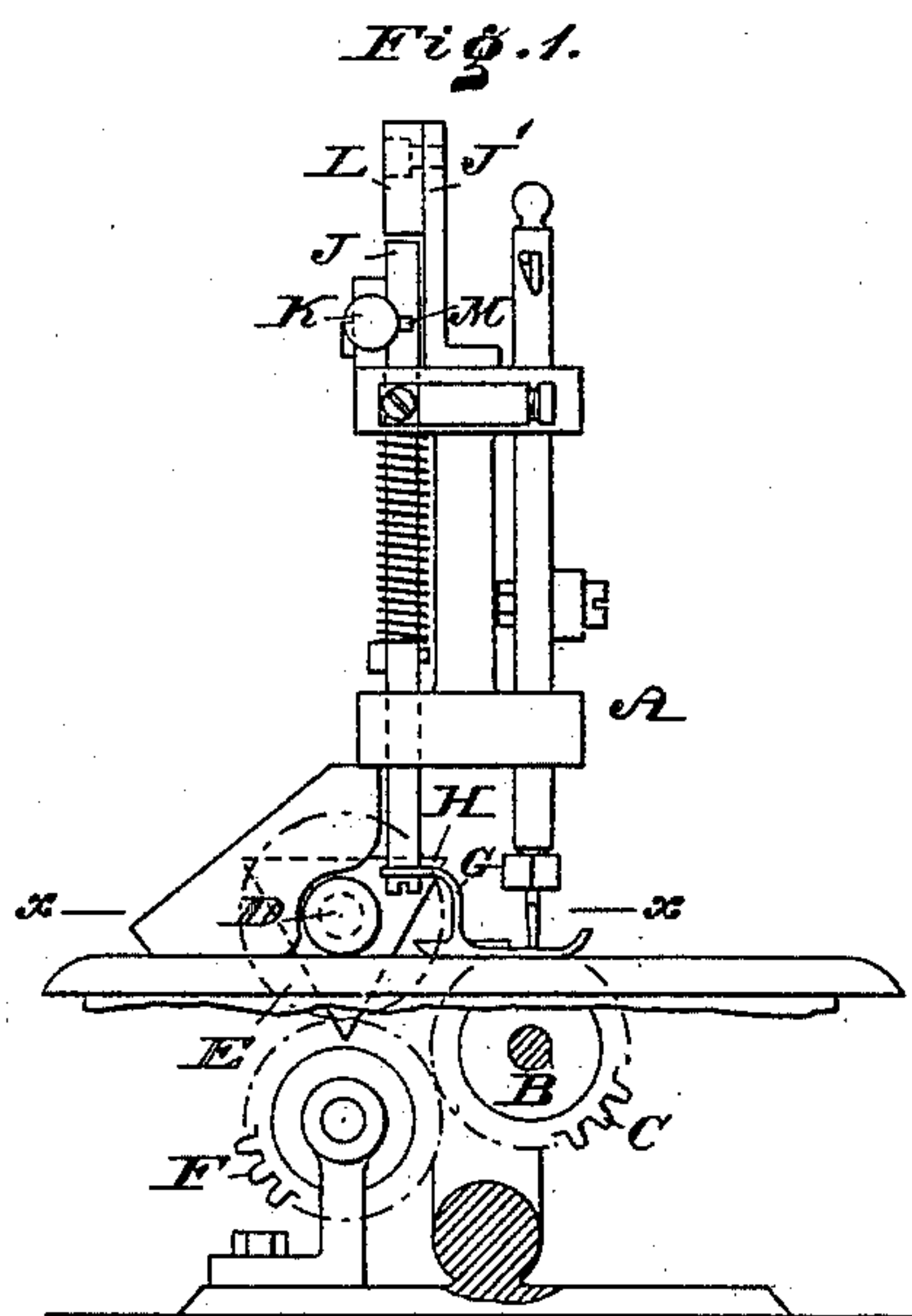
(No Model.)

T. B. MOORE.

TRIMMING ATTACHMENT FOR SEWING MACHINES.

No. 395,626.

Patented Jan. 1, 1889.



WITNESSES:
A. P. Grant,
Th. Rolle

INVENTOR:
Thomas B. Moore
BY John A. Diederich
ATTORNEY.

UNITED STATES PATENT OFFICE.

THOMAS B. MOORE, OF PHILADELPHIA, PENNSYLVANIA, ASSINGNOR OF ONE-HALF TO JOHN H. SCOTT, OF SAME PLACE.

TRIMMING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 395,626, dated January 1, 1889.

Application filed August 26, 1886. Serial No. 211,903. (No model.)

To all whom it may concern:

Be it known that I, THOMAS B. MOORE, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Trimming Attachments to Sewing-Machines, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 represents an end view, partly broken away, of a sewing-machine with a trimming attachment embodying my invention. Fig. 2 represents a side elevation thereof. Fig. 3 represents a top view of a detached portion and a horizontal section in line $x x$, Fig. 1. Figs. 4 and 5 represent views of detached parts.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of an organized sewing-machine having a trimming-knife of the form of a triangle with straight cutting-edges, which may be readily sharpened.

It further consists of an organized sewing-machine having a trimming-knife which operates upwardly through the presser-foot against the fabric.

It further consists of a latch for limiting the upward motion of the presser-foot and rendering the same rigid during the upward cutting action of the trimmer or knife.

It also consists of means for removing the abutment, whereby the presser-foot may be raised, as usual.

Referring to the drawings, A represents a sewing-machine, which, excepting the features of my invention applied thereto, is of well-known form.

B represents the driving-shaft, to which is keyed or otherwise secured a toothed wheel, C, and D represents a counter-shaft, which extends parallel with the shaft B and carries a toothed wheel, E, to which the movement of the wheel is transmitted by means of an idler-wheel, F, the said idler-wheel being suitably journaled in bearings secured to the frame of the machine and meshing with both wheels C and E, as shown in Fig. 1, whereby the shaft D rotates in the same direction as the shaft B, the several shafts being mounted on the frame of the machine.

The shaft D extends over the cloth-plate

and has at the end adjacent to the presser-foot G a trimming-knife or cutter, H, which, when rotation is imparted to it, operates in a slot, H', in the heel portion of said foot, so that the cutting action thereof is in an upward direction.

J represents the vertical bar, which carries the presser-foot, the same being pressed downwardly by a spring and adapted to be raised by the eccentric lever K, as usual.

The arm or guide of the presser-foot bar J has an upward extension, J', and to the same is pivoted a depending latch or abutment, L, against which said bar comes in contact when the trimmer is in operation, thus limiting the upward motion of the presser-foot and rendering the same rigid, the presser-foot, however, being enabled to rise and fall for purposes of sewing, as well known.

Projecting laterally from the lever K is a pin or stud, M, so disposed that when said lever is moved in order to raise the presser-foot said pin strikes and moves the latch and deflects it from the top of the bar J, whereby the latter may be raised by said lever, as usual in sewing-machines.

It will be seen that when the machine is running the fabric or material fed under the presser-foot is sewed or seamed, as well known, and then advanced to the knife H, by which it is cut or trimmed, as required. As the knife cuts upward into the fabric, the presser-foot rises to the required extent, and its bar J then abuts against the depending latch L, and is thereby rendered immovable, so that the presser-foot is held rigid during the trimming or cutting operation of the knife, as the latter presses the fabric upward against the presser-foot.

When it is desired to raise the presser-foot, the lever K is moved upward, whereby its pin M strikes the latch L and moves it from the path of the bar J, and the continued movement of the lever raises said bar and the presser-foot, as usual. When the lever is moved in reverse direction, the presser-foot descends and the latch returns to its normal position over the bar J, as an abutment therefor, as hereinbefore described.

The knife is triangular, with straight cutting-edges, which may be readily sharpened, there being the cutting or trimming action of

three of said edges to each rotation of the shaft of the knife, whereby the cutting or trimming action is rapid and effective.

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

1. A sewing-machine having an upwardly-cutting trimming-knife journaled above the cloth-plate, mechanism, substantially as described, connected therewith and to the driving-shaft for rotating said knife, a presser-bar with foot, the latter having a slot in its heel portion in which the rotating knife operates, an operating-lever for said presser-bar, and a latch pivoted to an extension of the goose-neck above the presser-bar, whereby the presser-foot is held rigid during the process of trimming, said parts being combined substantially as and for the purpose set forth.

2. A sewing-machine having a presser-bar, a latch pivoted to the head of the goose-neck and normally lying in the path of the presser-

foot, and means, substantially as described, attached to said presser-bar for removing the said latch from the path of said presser-bar, substantially as described.

3. A sewing-machine having a presser-foot, a movable latch connected with the frame of the machine over the presser-foot bar, and a projection on the presser-bar lifting-lever adapted to deflect said latch from the path of said bar, substantially as described.

4. A sewing-machine having a presser-foot, the latch L, pivoted to an upper extension of the head of the goose-neck, the eccentric lever K, pivoted to the presser-foot bar, and the stud M, secured to the lever K and operating on the latch L, all substantially as described.

THOMAS B. MOORE.

Witnesses:

JOHN A. WIEDERSHEIM,
A. P. GRANT.