

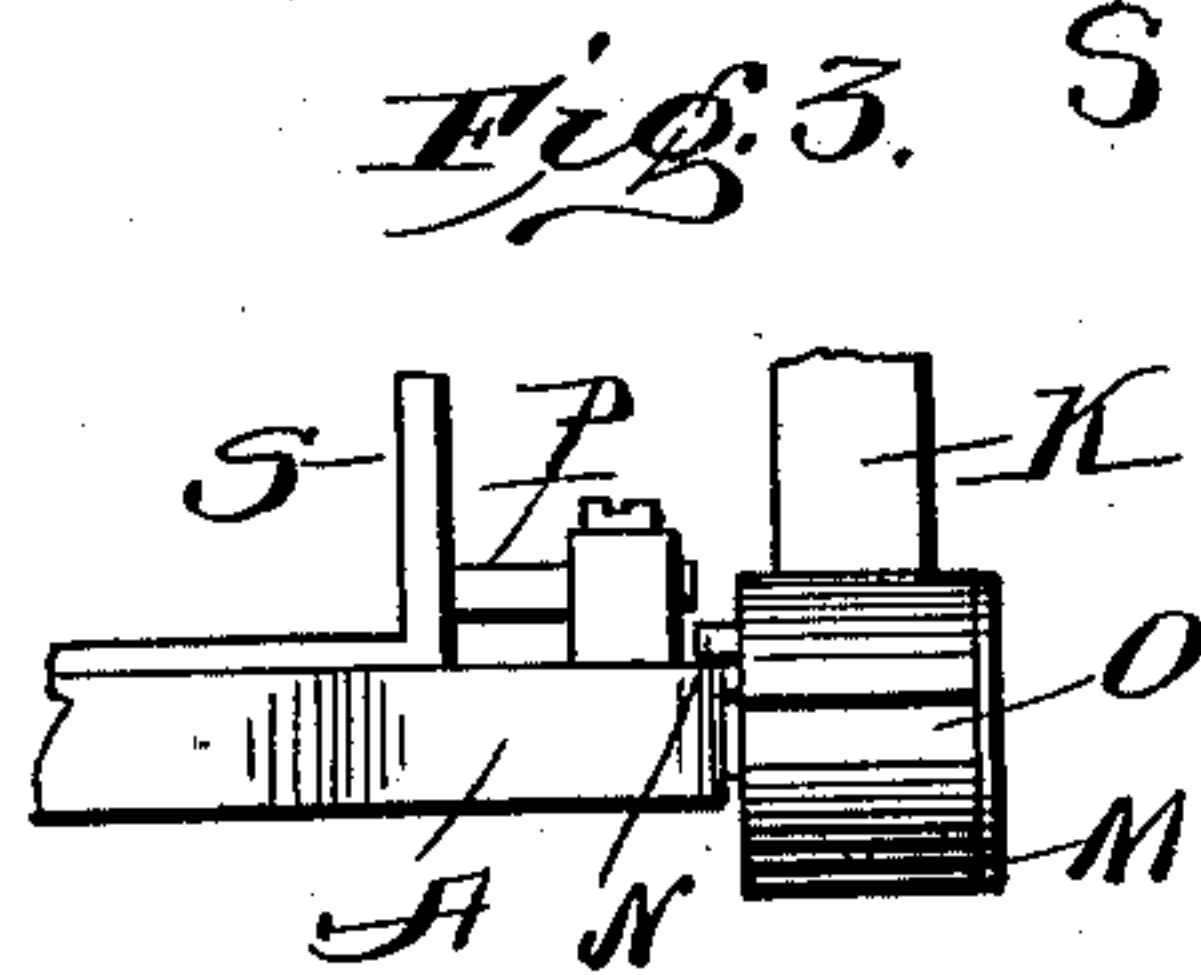
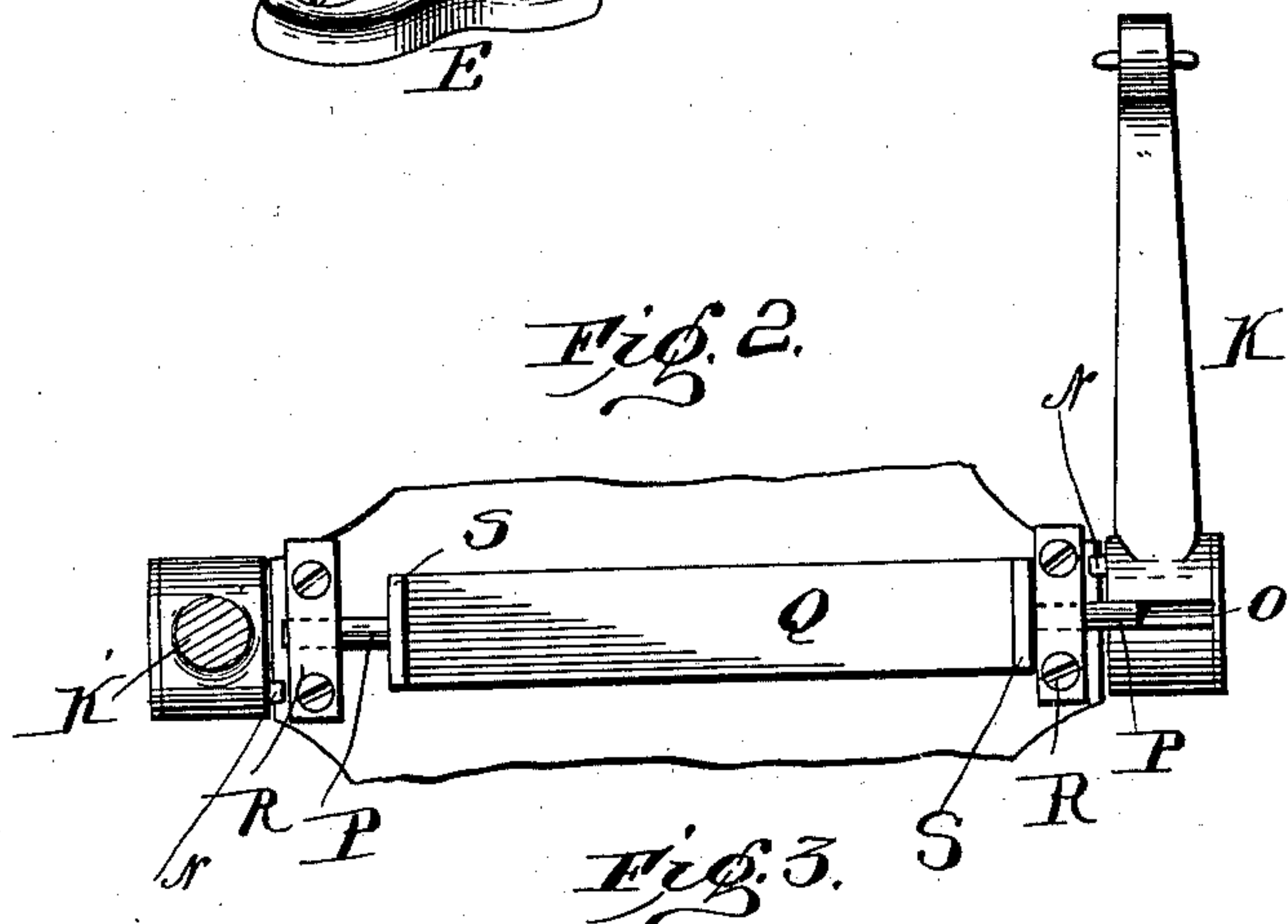
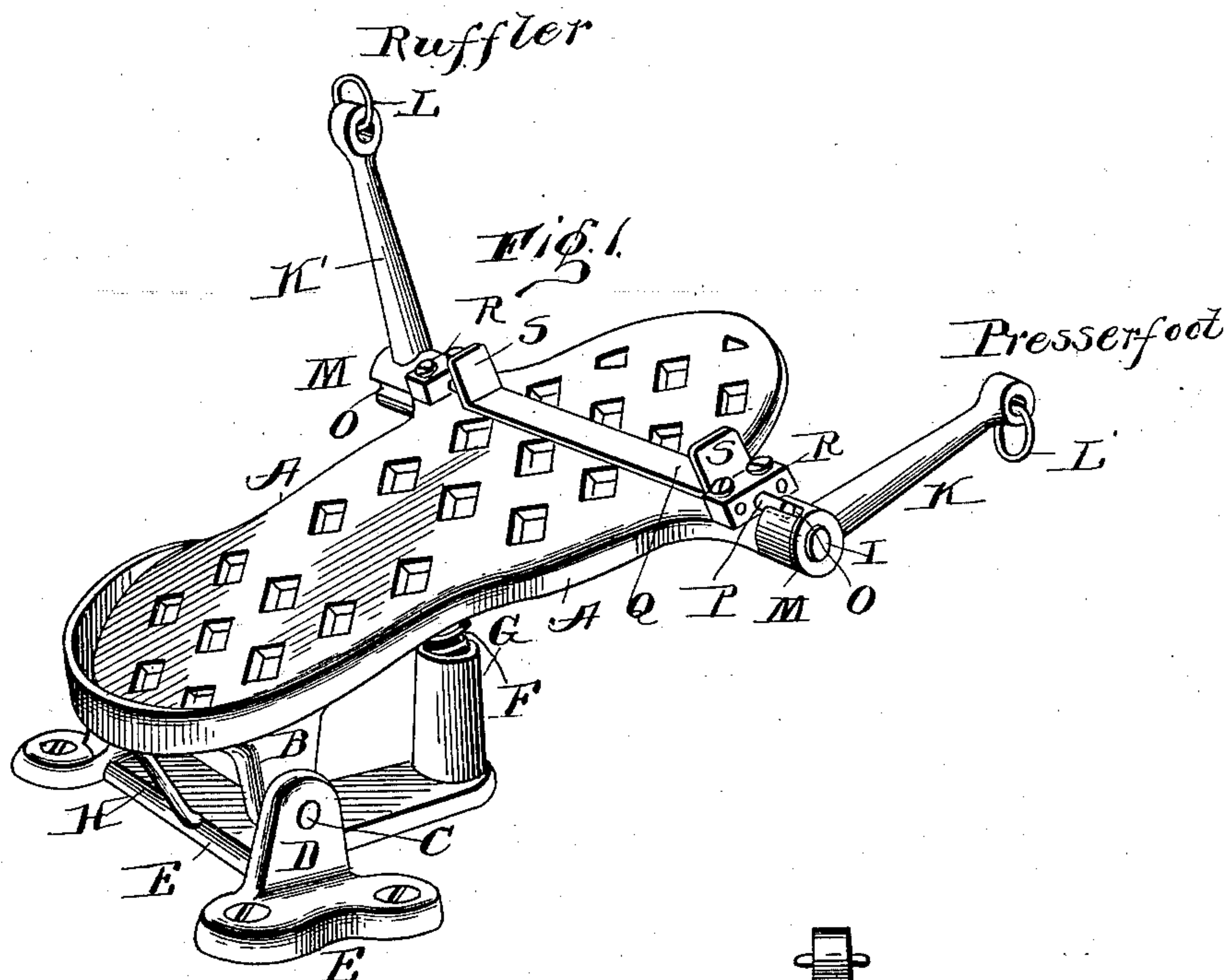
No. 655,053.

Patented July 31, 1900.

E. BURKE.
TREADLE.

(Application filed June 6, 1899.)

(No Model.)



witnesses:
J. M. Fowler Jr.
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UNITED STATES PATENT OFFICE.

EDWARD BURKE, OF NEW YORK, N. Y., ASSIGNOR TO THE UNION SPECIAL SEWING MACHINE COMPANY, OF CHICAGO, ILLINOIS.

TREADLE.

SPECIFICATION forming part of Letters Patent No. 655,053, dated July 31, 1900.

Application filed June 6, 1899. Serial No. 719,620. (No model.)

To all whom it may concern:

Be it known that I, EDWARD BURKE, a citizen of the United States, residing at the city of New York, in the county of New York, State of New York, have invented certain new and useful Improvements in Treadles, of which the following is a description, reference being had to the accompanying drawings and to the letters of reference marked thereon.

My invention relates to treadles, and particularly to treadles for sewing-machines and the like, the especial object of the present invention being to provide a treadle for use in connection with a Union Special ruffling-machine, adaptable by a slight movement of the foot sidewise to throw either the presser-foot or the ruffling mechanism into engagement with the treadle, so that a downward pressure of the foot will either raise the presser-foot or throw the ruffling mechanism into operative engagement with the driving-shaft.

The invention therefore consists of a treadle having means for the attachment thereto of operating parts and means for throwing it into and out of operative engagement with said operating parts.

Secondly, the invention consists of a treadle having an arm in engagement with an operating part of the machine and another arm in engagement with a second operating part of a machine and a part movable on the treadle adapted by a sidewise movement of the foot to engage one or the other of said parts alternately.

Finally, the invention consists in the matters hereinafter described, and referred to in the appended claims.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a sewing-machine treadle embodying my invention. Fig. 2 is a plan view, partly broken away, and a part of that remaining being shown in section; and Fig. 3 is a detail view in elevation of one side of the treadle.

In the drawings, A represents the foot of the treadle, it having the downwardly-projecting lugs B, pivoted on the rod C, passing through the lugs D, projecting upwardly from the base E, adapted to be secured to the floor.

The part A is normally held in inclined position to receive the foot of the operator by means of the spring F, set in a hollow cone-shaped piece G, forming part of the base E, said spring at its upper end being secured to the under side of the foot part A, the downward movement of the heel part of A being limited by the stop H.

Projecting from each side of the foot part A, near that portion occupied by the ball of the foot of the operator, are short shafts or pins I, upon which are pivoted arms K K', having eyes at their outer ends in which fit rings L, to which are adapted to be attached the lower ends of chains (not shown) respectively connected to the presser-foot lever and the ruffler-mechanism lever of the sewing machine. The hub M at the inner end of each of these arms K K' is provided with a projection N, which limits the swinging movement of the arms K K' to an arc of about ninety degrees. Each hub has a slot O, which is adapted to be engaged by projections P on the end of a sliding plate Q in the foot part A of the treadle, the projection P passing through guiding-openings in the blocks R, secured to the foot part A. This plate Q has upward projections S to engage the sides of the operator's foot.

It will be seen that by slight pressure sidewise of the operator's foot one or the other projection P will engage the slots O in K or K', and thus hold one of said arms rigid, so that it will move up and down bodily with the part A, and thus draw down on its connected chain and throw the presser-foot up or the ruffler into action, the other arm being free to turn on its pivot within the limits allowed by stop N, its weight meanwhile keeping it in a horizontal position when the part A is forced down by the foot of the operator.

By this construction it will be seen that by moving the slide Q to one side or the other the arm connected with the presser-foot or that connected with the ruffling mechanism will be brought to rigid engagement with the treadle A, and the downward pressure of the foot upon the treadle will then draw on one or the other of the chains and raise the presser-

foot or pull the ruffler mechanism into operative engagement with the driving-shaft.

It will be understood that I do not wish to be limited specifically to the application of the invention to a sewing-machine, and, furthermore, various modifications in the construction of the device may be made without departure from the spirit of my invention.

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

1. A treadle or the like having a connection with an operative part of a machine, and a second connection to another operating part of a machine, and a movable part on said treadle adapted alternately to engage one or the other of said operative connections; substantially as described.

2. A treadle having an arm in engagement with an operating part of a machine, and another arm in engagement with a second operating part of a machine, and a movable part on the treadle adapted by a sidewise movement of the foot of the operator to engage one or the other of said arms, and hold it rigid with the treadle; substantially as described.

3. A treadle provided with parts in operative engagement with machine parts, and a movable part on said treadle for alternately throwing said treadle parts into respectively

rigid engagement with the treadle proper, substantially as described.

4. A treadle having a foot portion, arms pivoted thereto, and means on the foot portion for alternately engaging the arms and holding them respectively rigid with the foot portion, substantially as described.

5. A treadle having a foot portion, arms pivoted thereto, and a slide on the foot portion adapted to engage one or the other of said arms and hold it rigid with the foot portion, substantially as described.

6. A treadle having a foot portion, a slide thereon having projections, arms pivoted on said foot portion and having means to receive the projections to hold one or the other of said arms rigid with the foot portion, substantially as described.

7. A treadle for sewing-machines having arms pivoted thereto, one connected to the presser-foot of the machine and the other to the ruffler thereof, and a movable part adapted to engage one or the other of said arms and hold it rigid with the treadle; substantially as described.

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

EDWARD BURKE.

Witnesses:

WILBUR L. SWIFT,
MILLARD VAN WAGNER.