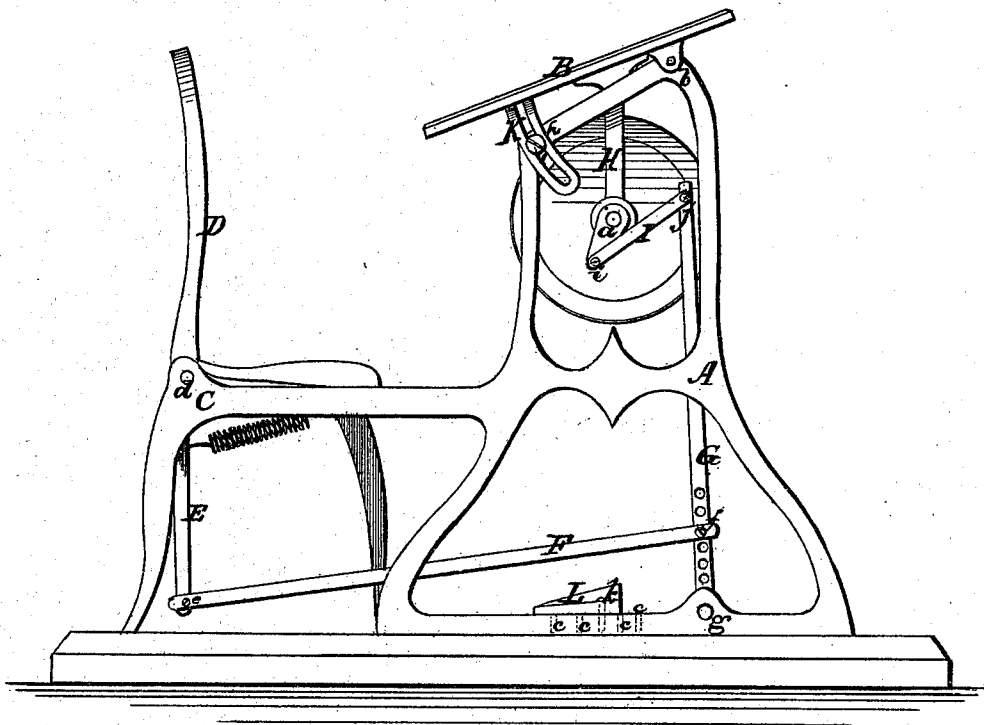


S. C. FOSTER.
 MODE OF OPERATING SEWING AND OTHER MACHINES.
 No. 105,932. Patented Aug. 2, 1870.



Witnesses { *Edw. C. Deborn* *S. C. Foster* } *Inventors*

UNITED STATES PATENT OFFICE.

S. CONANT FOSTER, OF NEW YORK, N. Y.

IMPROVEMENT IN THE MODE OF OPERATING SEWING AND OTHER MACHINES.

Specification forming part of Letters Patent No. **105,932**, dated August 2, 1870.

To all whom it may concern:

Be it known that I, S. C. FOSTER, of the city, county, and State of New York, have invented certain new and useful Improvements in Means for Operating Sewing and other Machinery, of which the following is a specification.

My invention relates to certain improvements in the mode of operating sewing and other machines as a substitute for the treadle-motion by which they are driven.

It consists in certain novel combinations and arrangements of parts, by which the operator can preserve an erect position and drive the machine by the action of the strong muscles of the back, legs, and thighs, instead of by the muscles of the feet alone, as in the treadle-motion.

The object of this invention is to render the working of such machinery less injurious to the health of the operator by obviating any tendency to diseases to which persons, especially females, running such machines by treadles are more or less liable.

The accompanying drawing shows one of the side frames that support the table B and the operative mechanism beneath it. The extension C of one frame forms a support for the seat of the operator, in connection with the leg M. The back D of the seat is pivoted at *d*, and is secured to the lever E beneath it. This lever is connected with the lever G, pivoted at *g*, by the bar F, pivoted at *e* and *f*, the latter end being made adjustable, so as to vary the throw of the lever G when required. The end of the lever G is connected with the crank *a* upon the end of the driving-shaft that is held in the brackets H H by means of the link I, pivoted at *i* and *j*. The arrangement of these

parts is such that as the back D of the seat is vibrated back and forth by the operator the required rotary motion will be imparted to the driving-shaft. The table B is pivoted to the side frames at *b*, and is provided with the necessary means to enable it to be adjusted and held at any angle to suit the convenience of the operator, consisting of the slotted plate K and set-screw *h*.

The foot-rest L, against which the feet of the operator are braced when at work, is made adjustable to compensate for the difference in stature of operators, the ends of the foot-rest being provided with pins K, which are inserted in the holes *c* in the side frame. The seat of the operator may be also arranged to be adjustable, if required, for the same reason.

I claim—

1. The herein-described sewing or similar machine table operated by power applied substantially in the manner described and specified.

2. In combination with the hereinbefore-described devices, an inclined adjustable table to support and adjust the machine to the convenience of the operator and admit of an erect position of the body, substantially as described and specified.

3. In combination with the herein-described devices, an adjustable foot-rest constructed and operating substantially as described and specified.

4. The inclined adjustable table constructed and operating substantially in the manner described and specified.

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Witnesses:

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