

O. H. TAYLOR.  
Sewing-Machine Treadle.

No. 213,359.

Patented Mar. 18, 1879.

Fig. 2.

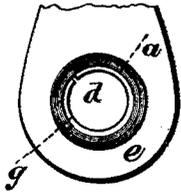
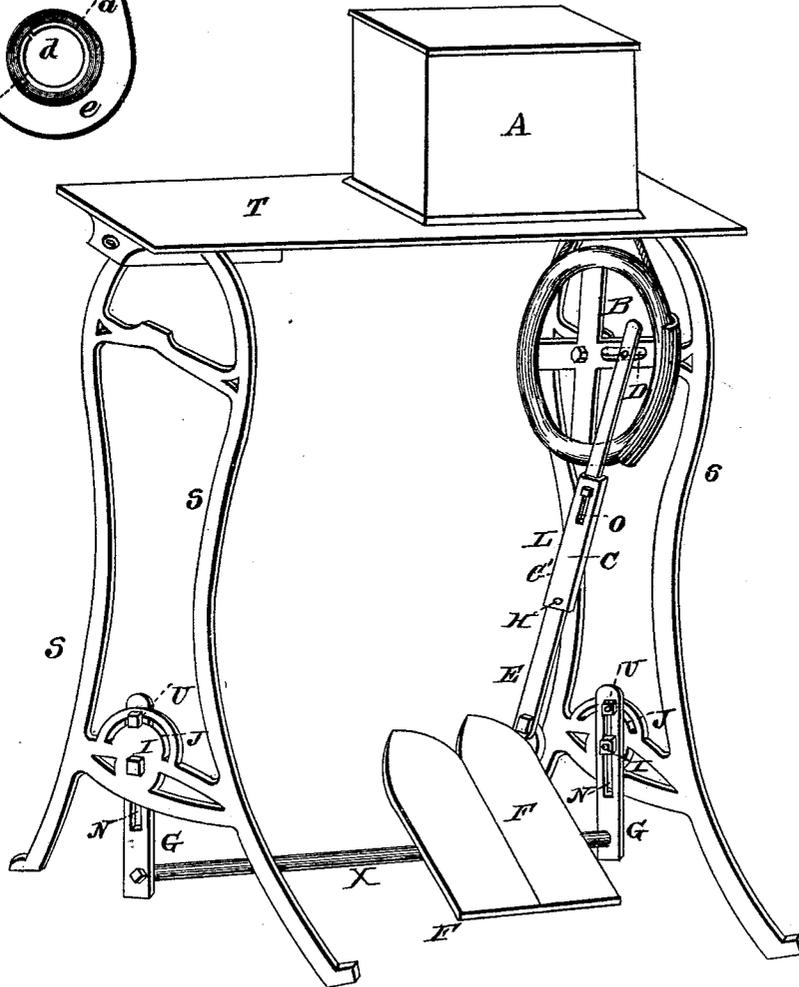


Fig. 1.



Witnesses:

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# UNITED STATES PATENT OFFICE.

OLIVER H. TAYLOR, OF BROOKLYN, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO LEOPOLD M. PROMIS, OF PHILADELPHIA, PA.

## IMPROVEMENT IN SEWING-MACHINE TREADLES.

Specification forming part of Letters Patent No. **213,359**, dated March 18, 1879; application filed June 11, 1878.

*To all whom it may concern:*

Be it known that I, OLIVER H. TAYLOR, of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Sewing-Machines, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

My invention relates to an improvement in treadles for sewing-machines, the object being to provide a sewing-machine treadle of such construction that it may be adjusted to any desired position or angle to suit the operator; and a further object is to overcome the jar ordinarily occasioned when the crank is passing the dead-center; and to these ends my invention consists in the following details of construction and combinations of parts, as will hereinafter more fully appear from the description and claims.

In the accompanying drawings, Figure 1 is a view, in perspective, of a sewing-machine provided with my improved treadle mechanism; and Fig. 2 is a detached view of the lower end of the pitman.

T represents the table, and A the removable case which covers and protects the sewing-machine. The driving-belt wheel B is journaled upon a shaft attached to one of the side frames, S. One of the spokes of the driving-wheel B is provided with an elongated slot, D, within which is inserted a wrist-pin, upon which is journaled the upper end of pitman C. By adjusting the wrist-pin to or from the center of the driving-wheel the throw of the pitman is varied to any desired degree.

Pitman C is made in two parts, the lower section, E, having a sleeve, C', attached thereto by a pin or screw, H, or in any other desired manner. The upper end of sleeve C' is provided with an elongated slot, O, through which is inserted a bolt, L, that extends through the upper section of the pitman. To adjust the pitman to the desired length, the nut on the bolt L is loosened and the treadle moved to the desired position, and the nut then tightened, which thereby constitutes a rigid connection between the wrist-pin on the driving-wheel and the treadle.

In order to prevent the jar on the treadle when the wrist-pin is passing its dead-center, the lower end of the pitman is provided with a rubber ring, a, which is placed over a split metal sleeve, g, that surrounds the pin attached to the treadle, thus insuring a yielding movement to the treadle, while the rubber cushion is protected from any undue wear, owing to the friction between the parts.

The foot-treads F F are attached to the rod X, the latter having its ends journaled in the adjustable supporting-bar G. Side frames, S, are each provided with an arc-shaped slot, J. Supporting-bars G are provided with elongated openings N, through which are inserted the upper and lower bolts, U I. The lower bolts, I, extend through suitable openings in the side frame, and serve to secure the bars to the side frames in a vertically-adjustable manner. The upper bolts, U, extend through the arc-shaped slots J, and serve to secure the bars to the side frame at any desired angle of inclination.

The treadle is adjusted in the following manner: The foot-treads are first adjusted vertically to the height desired to suit the operator, the nut on bolt L having been first loosened to permit of such free vertical adjustment. The desired vertical adjustment having been secured, the nuts on the lower bolts, I, are tightened sufficiently to hold the rod X in place. Afterward the angle of the treadle is adjusted so that the operator may be seated at any desired distance from the machine, and the nuts on the upper bolts, U, are then tightened. The nut or bolt L of the pitman is then tightened, and the required adjustment will have been effected. If an operator should desire to impart less motion to the feet in operating the treadle the wrist-pin should be moved toward the center of the driving-wheel, while, if considerable motion and leverage are desired, the wrist-pin should be moved away from the center of the driving-wheel.

It will thus be observed that the position, movement, and leverage of a sewing-machine treadle may be regulated as desired when the same is constructed in accordance with my invention.

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

1. The combination, with the driving-wheel of a sewing-machine, of an extensible pitman and a treadle adapted to be adjusted both laterally and vertically, substantially as set forth.

2. The combination, with the driving-wheel of a sewing-machine, of a pitman adapted to be adjusted in length, and journaled on a wrist-pin adapted to be adjusted to or from the center of the driving-wheel, the lower end of the pitman being attached to a treadle-shaft, the ends of which are journaled in vertically and laterally adjustable bearings, substantially as set forth.

3. The combination, with a treadle-shaft and end bearings provided with elongated slots, of the side frames of a sewing-machine stand provided with arc-shaped slots and upper and lower adjusting-bolts, whereby the treadle may be adjusted both vertically and laterally, substantially as set forth.

4. The combination, with the foot-treads of a sewing-machine treadle, of a pitman provided with a split metal sleeve inclosed within an elastic cushion, substantially as set forth.

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