

J. McEVROY.

Adjustable Treadles for Sewing-Machines, &c.

No. 141,722.

Patented August 12, 1873.

Fig. 1.

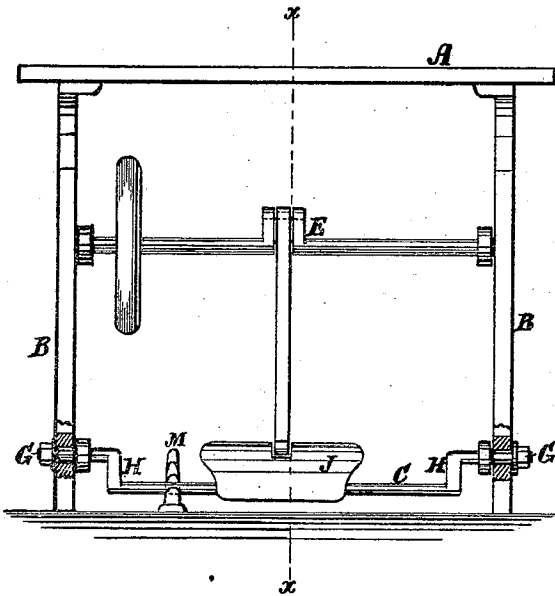


Fig. 2.

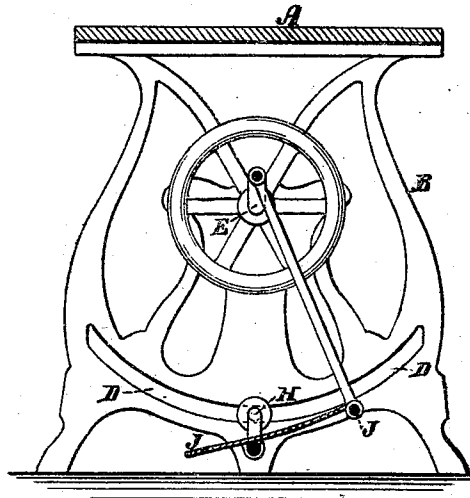


Fig. 3.

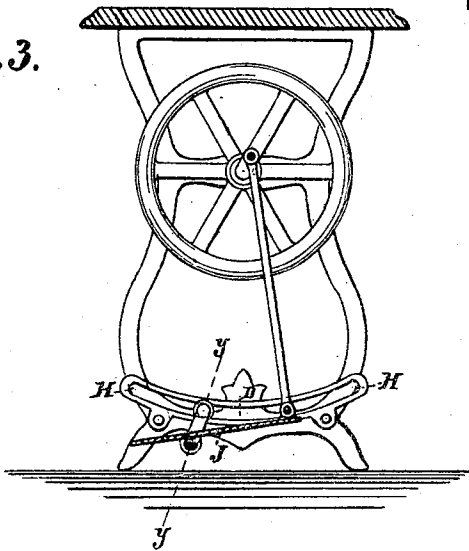


Fig. 5.

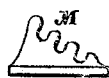
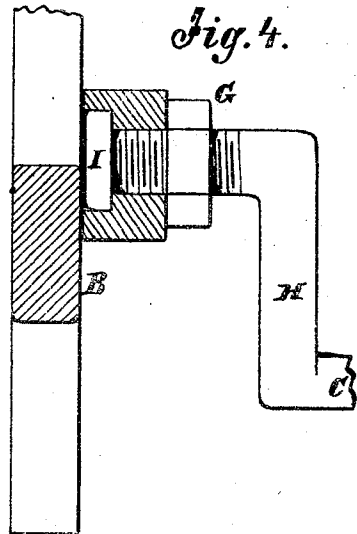


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOSEPH McEVOY, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN ADJUSTABLE TREADLES FOR SEWING-MACHINES, &c.

Specification forming part of Letters Patent No. **141,722**, dated August 12, 1873; application filed March 15, 1873.

To all whom it may concern:

Be it known that I, JOSEPH McEVOY, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Adjustable Treadle for Sewing-Machines, Lathes, &c., of which the following is a specification:

My invention consists of an arrangement of the treadle pivot-rod, in curved slots in the end frames or other supports, for adjusting the treadle toward or from the front of the machine to suit the operator. The slots are curved to the axis of the crank-shaft, so that the distance between the rod and the center remains the same. My invention also consists in having the treadle pivot-rod cranked at the ends and provided with binding-nuts, or other equivalent devices, so that by turning the rod on its axis the treadle can also be adjusted to vary the height.

Figure 1 is a front elevation of a sewing-machine frame with my improved treadle attachment, the cross-bars being sectioned to show the manner of securing the cranked pivot-rod to hold the treadle high or low. Fig. 2 is a transverse sectional elevation of Fig. 1 taken on the line *x x*. Fig. 3 is also a transverse sectional elevation, showing the slotted bearings for the pivot-rods formed in detachable bars, which I propose to use in some cases to facilitate the attachment of my adjustable treadle to machines already in use. Fig. 4 is a section on the line *y y* of Fig. 3, the parts being considerably enlarged to show them more clearly. Fig. 5 is a side elevation of an adjustable rest for holding the cranked treadle-rod.

A represents the table of a sewing-machine, lathe, or any other machine to be worked by foot-power. B represents the standards, at the ends, for supporting it and the treadle pivot-rod C. In these frames, or their corresponding parts in any other machine, I make curved slots D on a line struck from the axis of the crank-shaft E, and fit the pivot-rod C in it at the ends, as shown clearly in the drawing, and provide binding-nuts G for screwing them fast, for adjusting the

treadle J forward and back relatively to the front of the machine, as may be required, to suit different operators.

I may have the slots straight, but I prefer to have them curved, as shown; for, if straight, the connecting-rod would have to be adjustable as to length, and I propose to crank the pivot-rod, as shown at H, so that I can swing the treadle up or down to vary the height of it, as I wish.

In applying this improved adjustable treadle to new machines, I will form the slots D in the end frames, as above described; but for constructing the attachment so that it can be readily applied to machines already made, I will provide curved slotted bars H for holding the rod, and bolt them on the frame, and in this case I will have heads I on the rod, at the ends, and arrange the binding-nuts inside of the bars, so that they will not interfere with the end frames as they would on the side, and they will not be affected by the frames. The bars will have recesses on the side next to the frames along the slot to provide room for the heads. A notched rest, M, with notches for holding the rod C at different heights, will be used in combination with the curved rod, in the manner shown in Fig. 1, to prevent the pressure of the foot from turning the cranked rod down.

This improved treadle can be adjusted in a moment for a tall or short person; it has no complications, and is easily understood; it will not get out of order by any conditions to which it will ordinarily be subject; it requires no adjustment of the pitman as to length, as some others do, and only requires the unscrewing and screwing up of the nuts by a wrench, and the shifting of the rod and its rest to make the adjustment; it can be regulated quickly to any shoe, with or without heels; it is conducive to health, because by having it adjusted exactly to the requirements of the operator it is much less fatiguing to work the machine than when not rightly adjusted. It can be so adjusted that the strain can, at will, be sustained by the ankle, knee, or hip.

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

1. The treadle-pivot C, mounted in the slots D, curved upon the arc of a circle, described from the axis of the crank-shaft, as shown and described, for the purpose specified.

2. The treadle pivot-rod, cranked so as to adjust the treadle as to height, and provided

with binding-nuts for clamping it to the frame, substantially as specified.

3. The combination of a notched rest, M, with the cranked treadle pivot-rod C, substantially as specified.

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Witnesses:

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