

H. REESE.
TREADLE.

No. 180,066.

Patented July 18, 1876.

Fig. 1.

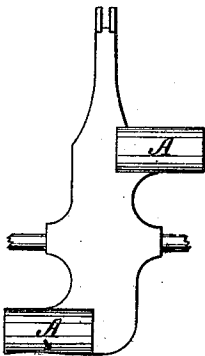


Fig. 2.

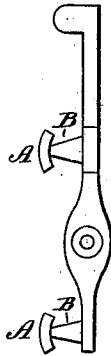


Fig. 3.

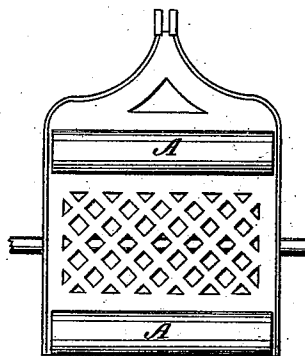


Fig. 4.

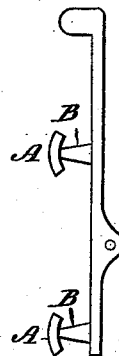


Fig. 5.



Fig. 6.



Fig. 7.

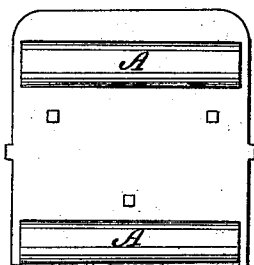
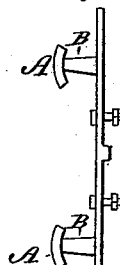


Fig. 8.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY REESE, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN TREADLES.

Specification forming part of Letters Patent No. **180,066**, dated July 18, 1876; application filed March 20, 1876.

To all whom it may concern:

Be it known that I, HENRY REESE, of Baltimore city, State of Maryland, have invented a new and Improved Treadle; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan view of the simple form of treadle; Fig. 2, a side view of the same; Fig. 3, a plan view, showing the continuous foot-rests; Fig. 4, a side view of the same; Fig. 5, a side view of the weighted independent treadle; Fig. 6, an end view of the same. Figs. 7 and 8 are, respectively, a plan and side view, showing my foot-rests applied to a detachable plate for attachment to any form of treadle already in use.

My invention relates to an improvement in that class of treadles in which independent foot-rests or secondary treadles are employed upon opposite sides of the fulcrum for obviating the tiresome strain upon the ankle-joint.

The invention consists, first, in a raised support, with an arc-shaped face, upon which the instep of the foot rests, and upon which arc-shaped face the sole of the shoe becomes the independent treadle turning upon the curved face as a pivot. It also consists in a pivoted independent treadle, having pendent weights, which hold the secondary treadle or foot-rest always in a horizontal position.

In the drawing, A represents the arc-shaped faces forming the independent treadles. These arc-shaped faces are connected through a raised support, B, with the base of the main treadle, and may be arranged singly, so that the feet are not interchangeable, as in Figs. 1 and 2, or may be made continuous in direction transverse to the main treadle, as in Figs. 3 and 4, in which event either foot may be placed forward and interchanged at pleasure.

In constructing these foot-rests A their faces are made arc-shaped or curved in transverse direction, so as to allow the sole of the shoe to turn upon the same, and remain always in an easy horizontal position. With this arrangement the sole of the shoe operates

as the independent treadle, and the arc-shaped foot-rest performs the part of the pivot. In constructing the supports B for the rests, it is necessary that they should project a sufficient distance above the main plate to prevent the said plate from striking the horizontally-maintained foot of the operator, as the said plate oscillates vertically and changes its angle with respect to a horizontal plane.

Figs. 5 and 6 show another form of independent treadle. In this case, instead of having the rigid and large exposed pivot-rests for the foot, as shown in the preceding figures, the pivot is made smaller and a detachable plate, A', placed thereon. The said plate oscillates upon its pivots, but is maintained in the same position with respect to a horizontal plane by pendent weights *a*, which, from the action of gravity, render the position of the pivoted plate A' independent of the movement of the main treadle.

To enable me to attach my form of treadle, as thus described, to any ordinary treadle in use, such as are employed upon sewing-machines or other light-running mechanism, I have shown, in Figs. 7 and 8, the independent treadles or foot-rests attached to a plate, which is provided with bolt-holes, or other equivalent means of attachment, whereby my improved form of treadle may be applied to treadles already in use, without alteration or injury to the same.

Having thus described my invention, what I claim as new is—

1. The combination, with the main treadle-plate, of elevated curved-faced foot-rests A, adapted to operate as pivots beneath the shank or instep of the shoe, as described.

2. The independent treadle A', having the center of gravity below the pivot, in combination with the support B of the main treadle, upon which it is pivoted, as and for the purpose described.

HENRY REESE.

Witnesses:

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