# W. FELZER.

## Treadles.

No. 144,525. Patented Nov. 11, 1873.

*Fig. 1.*

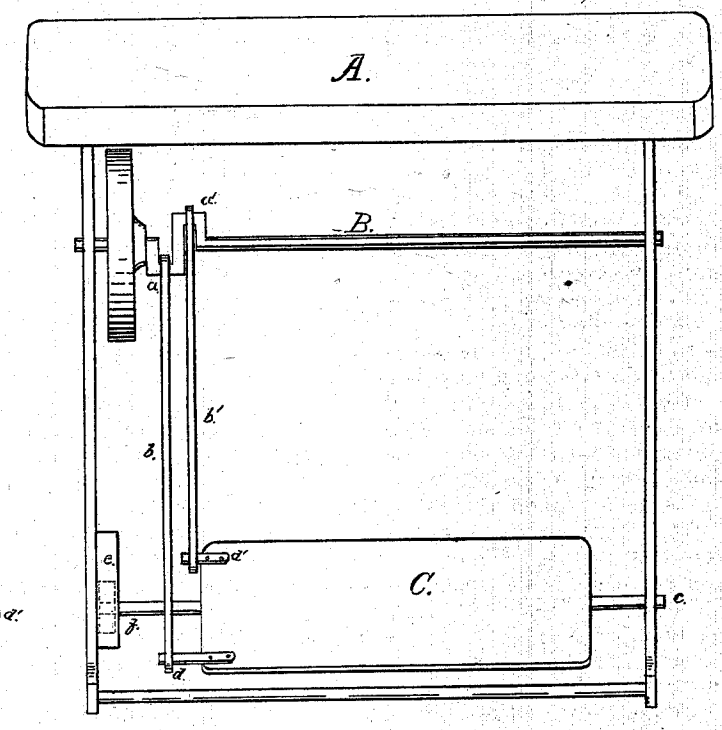
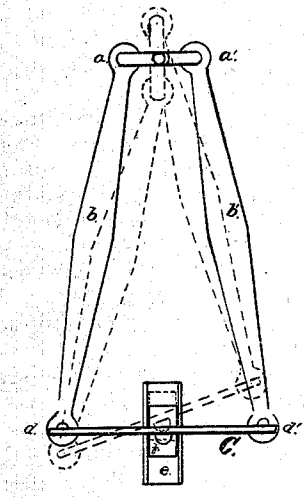



*Fig. 2.*



Witnesses
Wm. J. Peyton
A. H. Norris.

Inventor.
William Felzer
By James L. Norris.
his Atty.

# UNITED STATES PATENT OFFICE.

WILLIAM FELZER, OF FRANK HILL, MINNESOTA.

## IMPROVEMENT IN TREADLES.

Specification forming part of Letters Patent No. **144,525**, dated November 11, 1873; application filed October 17, 1873.

*To all whom it may concern:*

Be it known that I, WILLIAM FELZER, of Frank Hill, in the county of Winona and State of Minnesota, have invented certain new and useful Improvements in Treadle-Motion; and I do hereby declare that the following is a full, clear, and exact description thereof, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention has relation to treadle-motion, and consists of an improved device, so constructed as to act upon a double crank by means of two pitmen, which are so attached to the foot-board that, while one pitman is on the center the other is in a position to operate the other crank by means of the foot-board, and vice versa; consequently the operator may start the shaft from any position.

In the drawing, Figure 1 is a front elevation. Fig. 2 is an end view of the working parts, removed from the frame.

A is the table or frame, to which the working parts are attached. B is a revolving shaft, which is provided with two cranks, *a a'*, which stand opposite to each other. C is the foot-board, which is pivoted at one of its ends in a loose-fitting stationary box, *c*, and at its other end in a sliding box, *f*, which slides freely in a groove, *e*. The pitmen *b b'* are attached at their upper ends to the cranks *a a'*, and at their lower ends to the pins *d d'* on the opposite corners of the foot-board C.

To operate the device, place the foot upon the foot-board C, and by oscillating the same motion is given to the shaft B by means of pitmen *b b'*, the operation causing the sliding box *f* to move up and down in the groove *e*, to accommodate the operations of the pitmen.

I am well aware that oscillating foot-boards and double cranks are well known; but

What I claim to be my invention, and desire to secure by Letters Patent, is—

The foot-board C, provided with the stationary box *c*, movable box *f*, groove *e*, pins *d d'*, and pitmen *b b'*, in combination with the double crank *a a'*, and shaft B, substantially as hereinbefore set forth, and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of September, 1873.

WILLIAM FELZER.

Witnesses:

R. R. BRIGGS,

THOMAS WRIGHT.