

W. J. Demorest,

Treadle.

N<sup>o</sup> 69,975.

Patented Oct 22, 1867.

Fig. 1

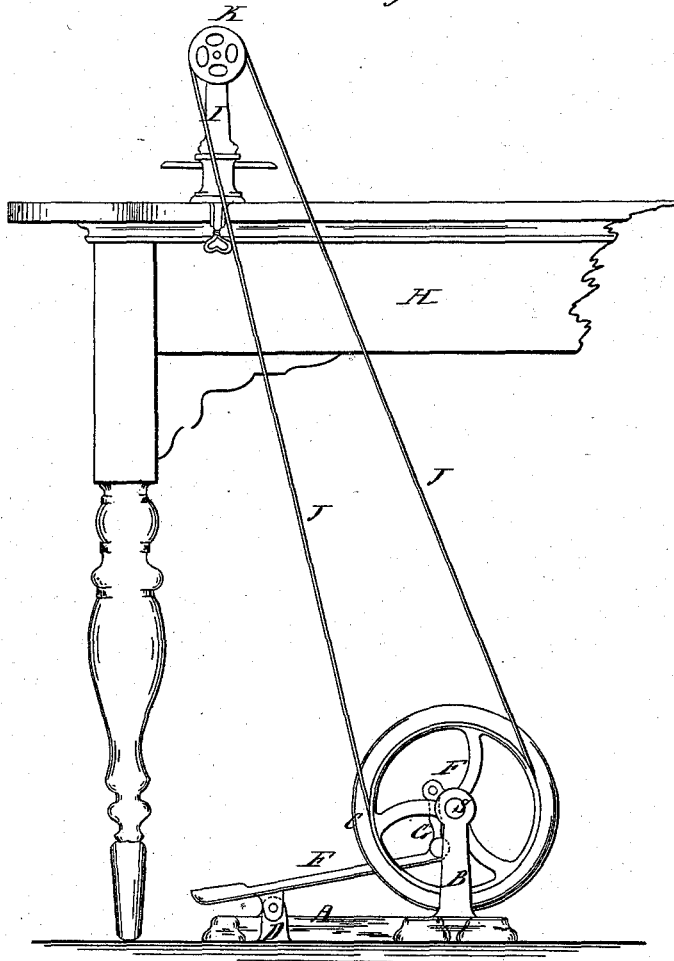
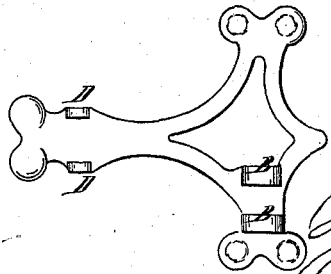


Fig. 2



Witnesses

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W. JENNINGS DEMOREST, OF NEW YORK, N. Y.

IMPROVEMENT IN MOVABLE TREADLE FOR SMALL LATHES, SEWING-MACHINES, &c.

Specification forming part of Letters Patent No. **69,975**, dated October 22, 1867; antedated October 12, 1867.

*To all whom it may concern:*

Be it known that I, W. JENNINGS DEMOREST, of the State, city, and county of New York, have invented a new article of manufacture which I have termed the "Portable Pedometer;" and I do hereby declare that the following is a full, clear, and exact description of the nature, object, construction, and operation of said invention, reference being had to the accompanying drawing, which forms part of this specification.

The nature and object of this invention are to provide a portable apparatus, simple and durable, for operating small machinery requiring a steady rotary motion, such as dentists' lathes, small sewing-machines, &c., which may be instantly set up and put in operation, and which, when connected by a belt with the machine it is intended to drive, is self-adjusting to such machine. No apparatus that I am aware of possessing these characteristics is now extant.

The elements of the combination constituting this invention are a balance and belt wheel, a crank and link attached to a pedal, and the whole erected on and fixed to a suitable base, so shaped as to furnish a competent and firm support for the apparatus.

To enable others to make and use my invention I will proceed to describe the same.

In Figure 1 of the drawing the apparatus or pedometer is represented in operation. In Fig. 2 I have shown its frame or base, with the working parts removed.

On said frame or base (A in Fig. 1) I erect standards B B, which afford bearings at their top for the shaft *s* of the driving-wheel *e*. Said wheel has a projecting rim grooved to receive

a round belt. The base A has short posts D to receive the pivots of an oscillating pedal, E. Said pedal is connected at the toe with a crank, F, on the shaft *s* by a link, G.

When the apparatus is to be used, it is placed on the floor, at one side and in front of the operator, and near the corner of a table, H, on which is secured the lathe or sewing-machine I to be worked. Connection is made between the apparatus and pedometer and the machine I by a belt, J, which is made of the approximate length required. When the operator places his foot on the pedal, the apparatus, being unattached to the floor or table, will naturally tend to move away from the operator until it adjusts the distance between the wheel *e* and the pulley *k* (of the machine I) to the length of the belt. Said belt is also held taut in the same manner, and therefore is not liable to slip, because the wheel *e* constantly acts as a tightening-pulley to the belt, and thus the apparatus is self-adjusting to the machine it drives—a new and very advantageous feature never before developed in any such apparatus.

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

The general arrangement and combination of the base A, standards B and C, balance and driving wheel *e*, pedal E, crank F, and link G, substantially as shown and described, the whole constituting a new article of manufacture termed the "pedometer."

W. JENNINGS DEMOREST.

Witnesses:

C. H. SMITH,  
LIZZIE CONNER.