

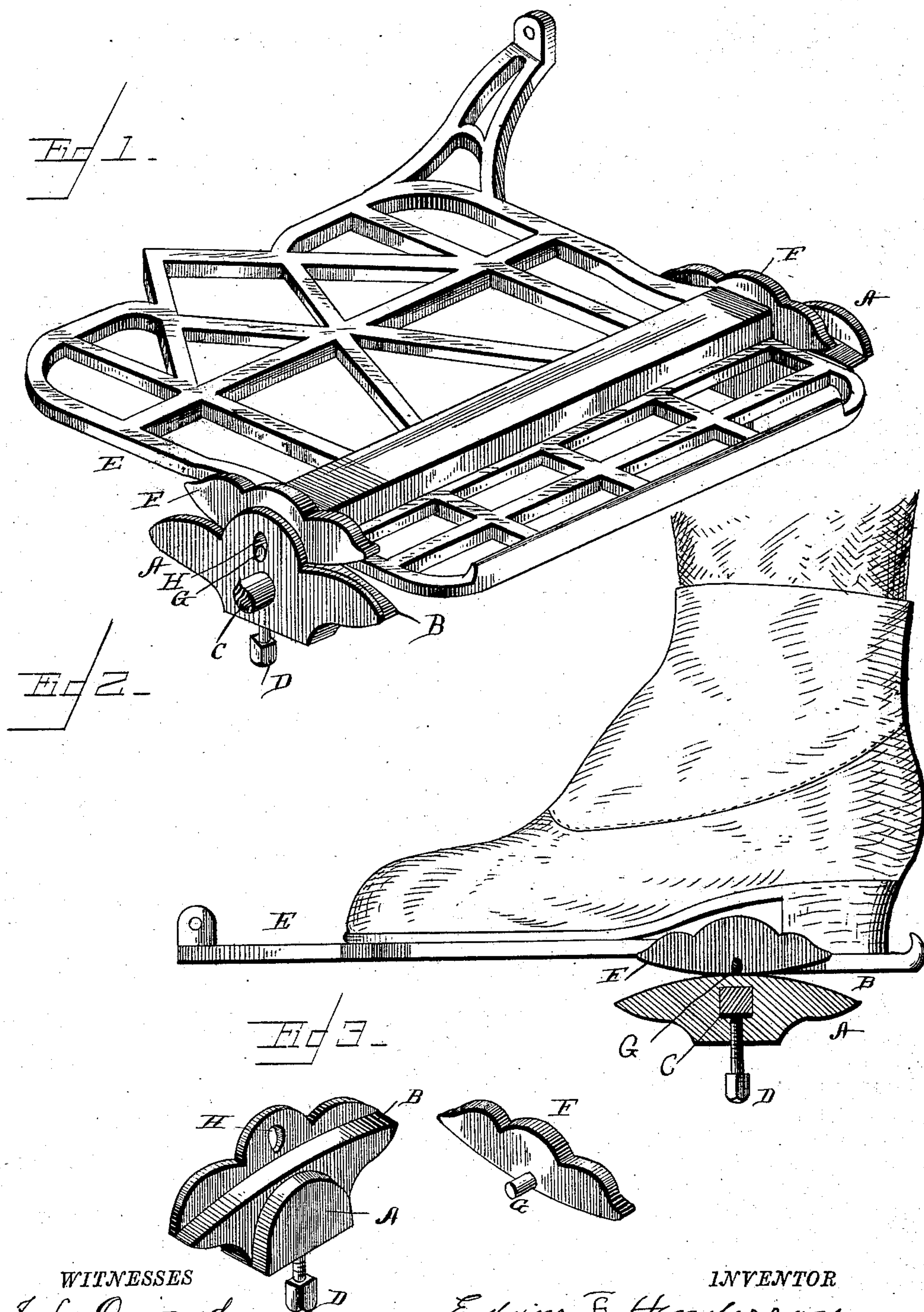
(No Model.)

E. F. HENDERSON.

TREADLE.

No. 315,282.

Patented Apr. 7, 1885.



WITNESSES
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UNITED STATES PATENT OFFICE.

EDWIN F. HENDERSON, OF FORT HOWARD, WISCONSIN.

TREADLE.

SPECIFICATION forming part of Letters Patent No. 315,282, dated April 7, 1885.

Application filed December 17, 1884. (No model.)

To all whom it may concern:

Be it known that I, EDWIN F. HENDERSON, a citizen of the United States, residing at Fort Howard, in the county of Brown and State of Wisconsin, have invented certain new and useful Improvements in Treadles, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in treadles for sewing-machines and other light machinery; and it has for its objects to provide a treadle to which movement may be imparted by a motion of the foot from the ankle-joint without the movement of the other parts of the body, whereby an easy motion is obtained with much less fatigue than in the ordinary treadle motion, and by which the serious difficulty experienced by women in the operation of the treadle will be obviated. These objects I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a perspective view of my improved treadle; Fig. 2, a longitudinal sectional view of the same, showing the foot of the operator in position thereon; Fig. 3, detached perspective views of the standards having rocking or bearing surfaces upon which the treadle works.

The letter A indicates two standards, which are secured to or form part of the sewing-machine stand, or which may be fastened to any other support. The said standards on their inner sides are provided with curved bearing-surfaces B, and are adjustably connected by means of a rod or bar, C, and set-screws D.

E indicates the treadle, which, at each side, is provided with rockers F, which rest and are adapted to rock or oscillate on the curved

bearing-surfaces of the standards before mentioned. The treadle is held in place upon said bearing-surfaces by means of the projections G, which work loosely in the apertures H in the standards. These projections are oval in cross-section, and the apertures are of similar shape in order to permit the projections to work therein with the least possible friction.

It will be seen from the above that the treadle has a rocking motion instead of the positive oscillating motion of the ordinary treadle, which permits it to be operated by a direct movement of the foot rocking upon the ankle-joint, thereby doing away with the necessity of moving the other parts of the body, and the consequent fatigue and injury to the same.

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

1. The combination, with the standards having curved bearing-surfaces and apertures, of the treadle having rockers resting and adapted to oscillate on said bearing-surfaces, and the projections setting and working loosely in the apertures, substantially as and for the purposes specified.

2. The combination, with the standards having curved bearing-surfaces, and the treadle provided with rockers, of the connecting-rod and screws whereby the standards are adjustably secured together, substantially as and for the purposes specified.

In testimony whereof I affix my signature in presence of two witnesses.

EDWIN F. HENDERSON.

Witnesses:

WM. L. WITTERS,
A. PLATTEN.