

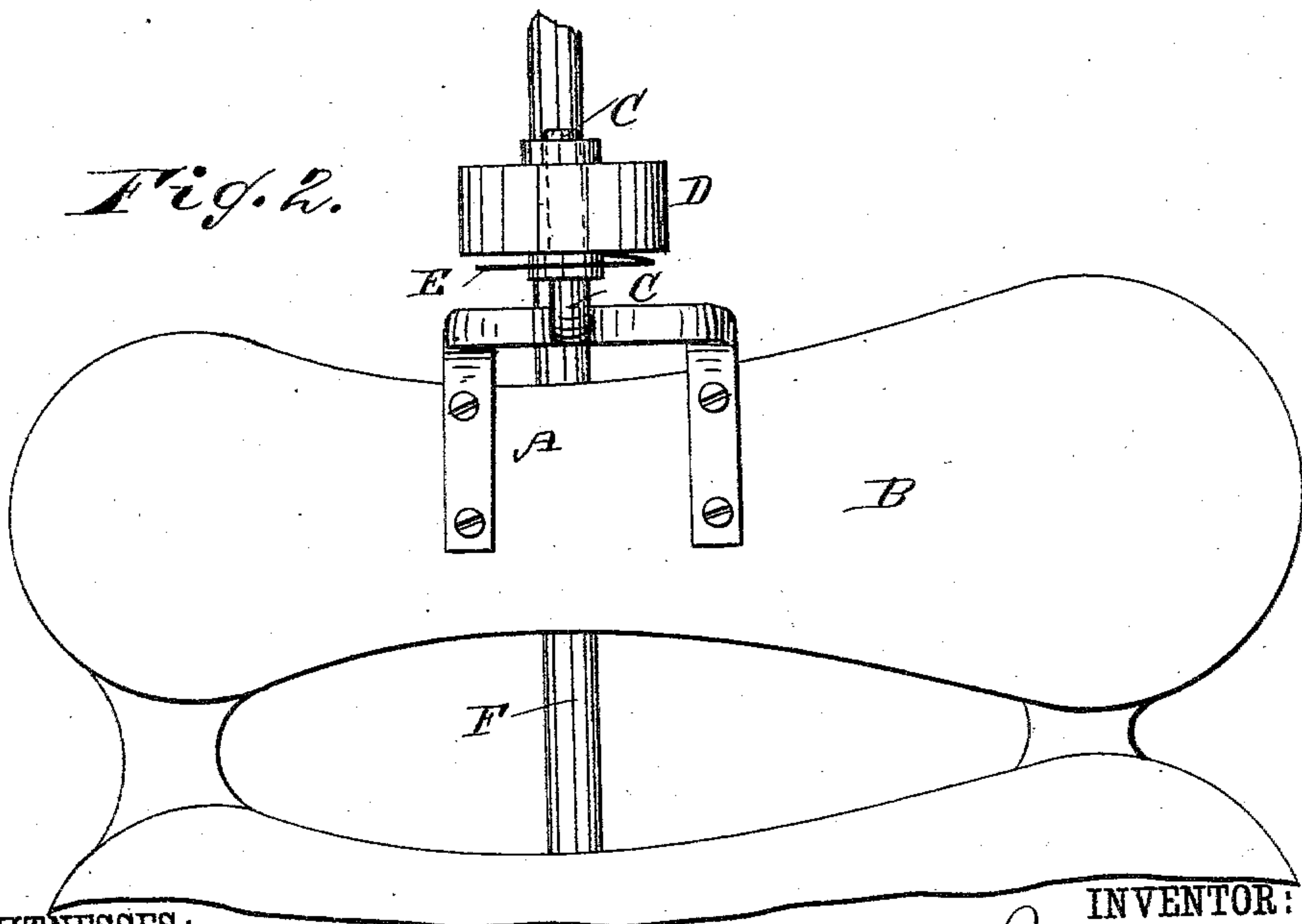
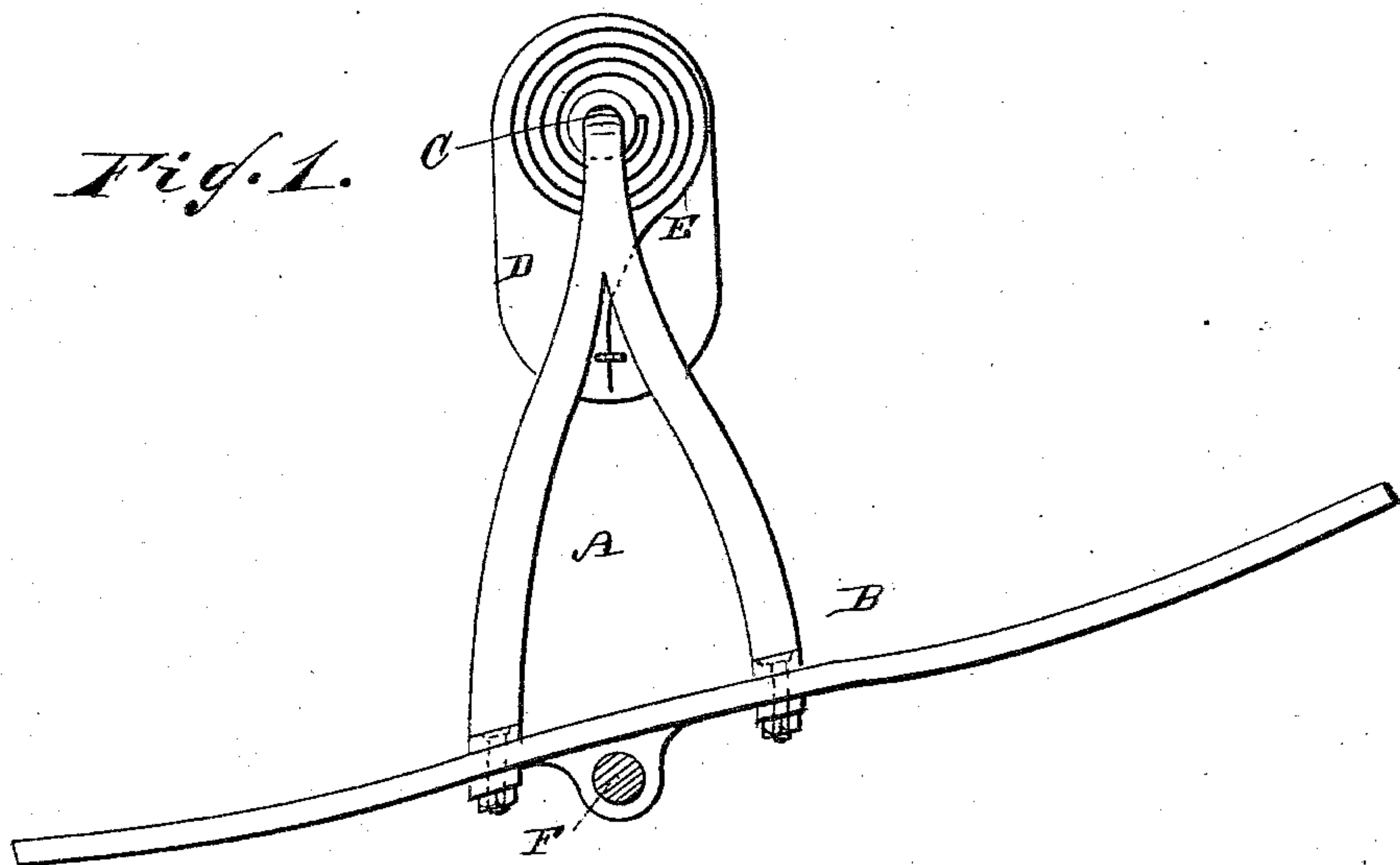
(No Model.)

J. A. ROBISON.

TREADLE.

No. 283,514.

Patented Aug. 21, 1883.



WITNESSES:

Theo. G. Hoster
C. Sedgwick

INVENTOR:

J. A. Robison
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEPH A. ROBISON, OF NEW WASHINGTON, INDIANA.

TREADLE.

SPECIFICATION forming part of Letters Patent No. 283,514, dated August 21, 1883.

Application filed June 13, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. ROBISON, of New Washington, in the county of Clark and State of Indiana, have invented a new and Improved Attachment for Treadles, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved attachment for treadles for sewing-machines, foot-lathes, &c., whereby the operating of the treadle is greatly facilitated:

The invention consists in a weight held on the upper end of a frame secured on the treadle above the treadle-shaft, which weight can be provided with a spring attached to the weight and to the frame, and which weight assists in depressing the toe end of the treadle.

The invention also consists in various parts and details and combinations of the same, as will be fully described and set forth hereinafter.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a longitudinal elevation of a treadle provided with my improved attachment. Fig. 2 is a plan view of the same, parts being broken away.

A Λ -shaped or other suitable frame, A, is fastened to one side of the treadle B in such a manner that it projects upward from the same, one of the shanks of the said frame being attached to the treadle at each side of the treadle-shaft F. The shank toward the heel end of the treadle is longer than the shank toward the toe end, so that when the treadle is inclined from the front to the rear the middle of the frame will be vertically above the treadle-shaft, as shown.

An arm, C, projecting in the direction from the treadle, is formed on the upper end of the frame A, and on the said arm a block or weight, D, of about from five to seven pounds, is hung loosely. A spiral spring, E, has one end secured on the lower end of the weight, and the other end is secured to the arm C, which spring tends to hold the weight parallel with the longitudinal axis of the frame A.

If the toe end of the treadle is depressed slightly, the weight D will be swung beyond the vertical line of the treadle-shaft, and will thus assist in moving the toe end of the treadle downward, thereby facilitating the operating of the treadle, as it requires much more labor and power to depress the toe end of a treadle than to depress the heel end. The weight thus relieves the operator of considerable strain, permits operating the treadle with less exertion of power on the toe end, and gives the treadle an easy and regular movement.

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

1. A treadle attachment made substantially as herein shown and described, and consisting of a frame projecting upward from the treadle and having a weight on its upper end, as set forth.

2. The combination, with a treadle, of a frame projecting upward from the same, a weight held on the upper end of the frame, and a spring secured to the weight and frame, substantially as herein shown and described, and for the purpose set forth.

3. The combination, with a treadle, of a frame secured on the same above the treadle-shaft, in such a manner that the upper end of the frame will be vertically above the treadle-shaft when the heel end of the treadle is lowered, and a weight on the upper end of the frame, substantially as herein shown and described, and for the purpose set forth.

4. The combination, with a treadle, of a Λ -shaped frame having a short and a long shank, the long shank of the frame being fastened to the treadle between the heel end of the same and the treadle-shaft, and the short arm being fastened to the treadle between the toe end and the shaft, and of a weight on the upper end of the frame, substantially as herein shown and described, and for the purpose set forth.

JOSEPH A. ROBISON.

Witnesses:

ELMER E. SHILLING,
H. F. PHILIPPI.