

A. P. Torrence,

Treadle.

N^o 59,876.

Patented Nov. 20, 1866.

Fig: 2.

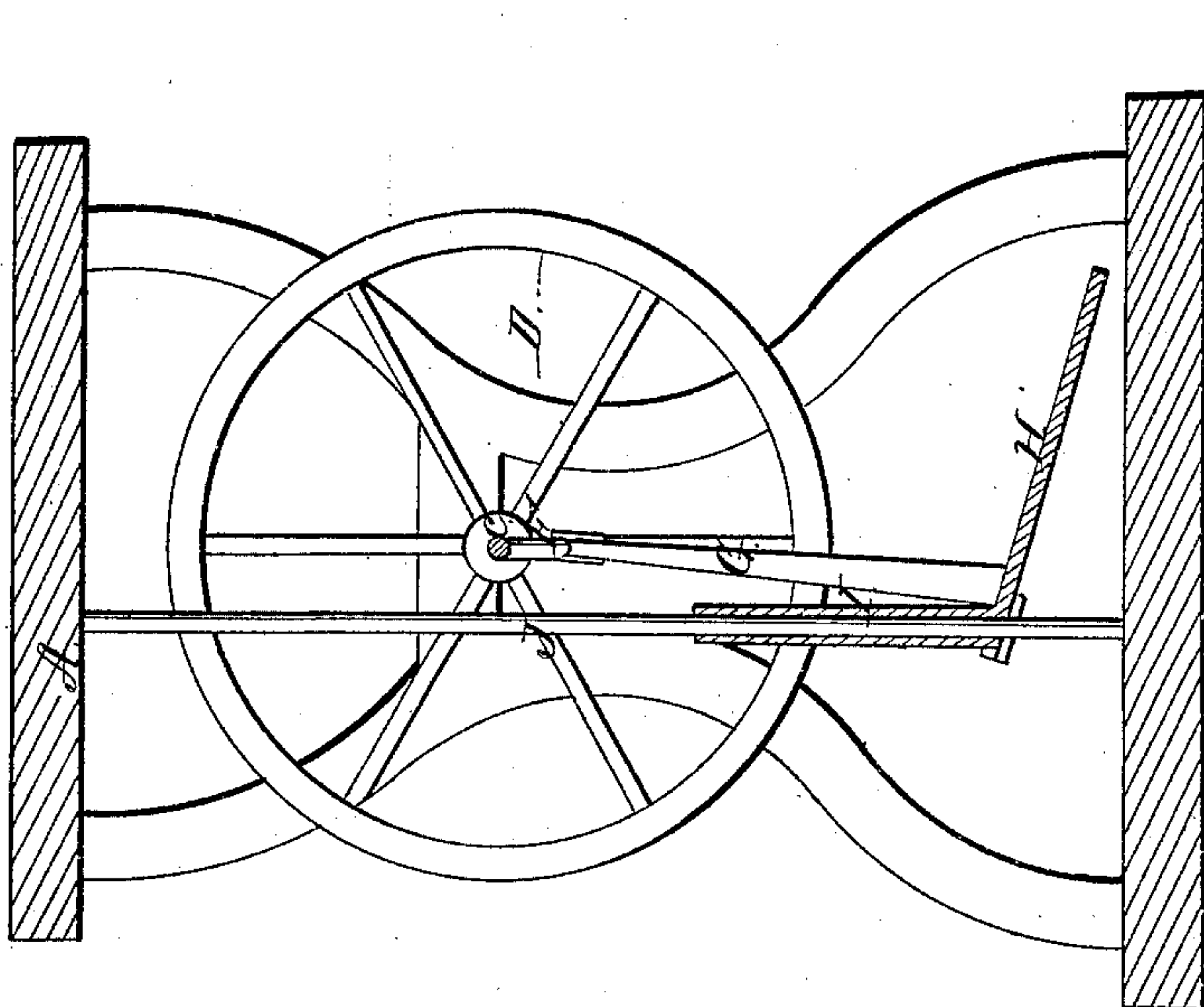
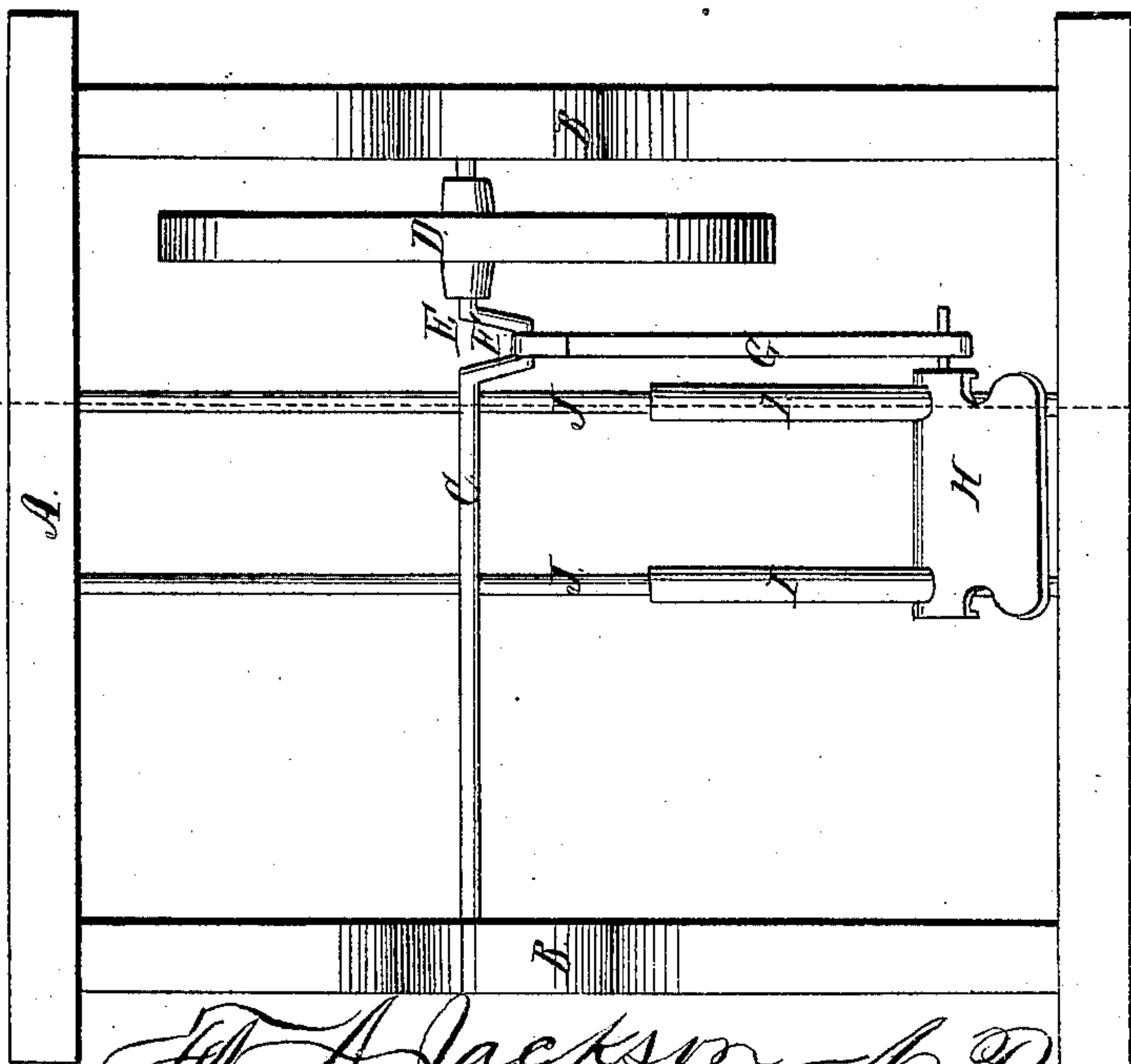


Fig: 1.



Witnesses.

J. A. Jackson
Per Service

A. P. Torrence
Per Munn & Co Attys.

United States Patent Office.

IMPROVEMENT IN TREADLES.

A. P. TORRENCE, OF COLUMBUS, GEORGIA.

Letters Patent No. 59,876, dated November 20, 1866.

SPECIFICATION.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, A. P. TORRENCE, of Columbus, in the county of Muscogee, and State of Georgia, have invented a new and useful improvement in Treadles; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification:

The present invention relates to a novel mode of hanging and arranging a treadle to a sewing or other machine, whereby in operating the treadle, in lieu of the smaller and weaker muscles of the foot and ankle of the person being called into action, it is transferred to the larger and more powerful muscles of the thigh and leg, thereby enabling a much greater amount of force to be exerted upon the treadle, and with less fatigue to the operator than by the ordinary and usual mode of hanging or arranging treadles.

In accompanying plate of drawings my improvement is illustrated.

Figure 1 being a front view of a frame having a treadle arranged upon and hung to it according to the present invention, and

Figure 2, a transverse vertical section taken in the plane of the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

A in the drawings represents a frame suitable for supporting a treadle, according to the present invention. Between the parallel upright or end pieces, B, of the frame, A, a shaft, C, extends, turning in bearings at each end of the same. To this shaft a fly or balance-wheel, D, is hung or attached, and at E a crank, F, is formed. On this crank, F, the upper end of a pitman-rod, G, is hung, which rod at its lower end is hung to one side of the treadle, H. This treadle, H, upon its rear or inner end is provided with two upright parallel tubes or sleeves, I, which fit over and play upon the two parallel vertical shafts or rods, J, fixed and extending between the upper and lower portions of the frame, A.

The handle, H, when operated by the foot moves up and down upon the rods, J, and by means of such an arrangement or mode of hanging the same, in lieu of calling into action the smaller and weaker muscles of the foot and ankle, it is transferred to the larger and more powerful muscles of the leg and thigh, whereby the driving of a machine by a treadle hung according to my invention is rendered much easier, freer, and less fatiguing than by the ordinary method heretofore in use for hanging and arranging a treadle.

I claim as new, and desire to secure by Letters Patent—

A treadle hung and arranged in such a manner as to operate substantially as and for the purpose described.

A. P. TORRENCE.

Witnesses:

C. B. TEASDALE,

C. H. SMITH.