

(No Model.)

G. A. LOCKWOOD & D. ORRILL.

TREADLE.

No. 279,577.

Patented June 19, 1883.

Fig. 1.

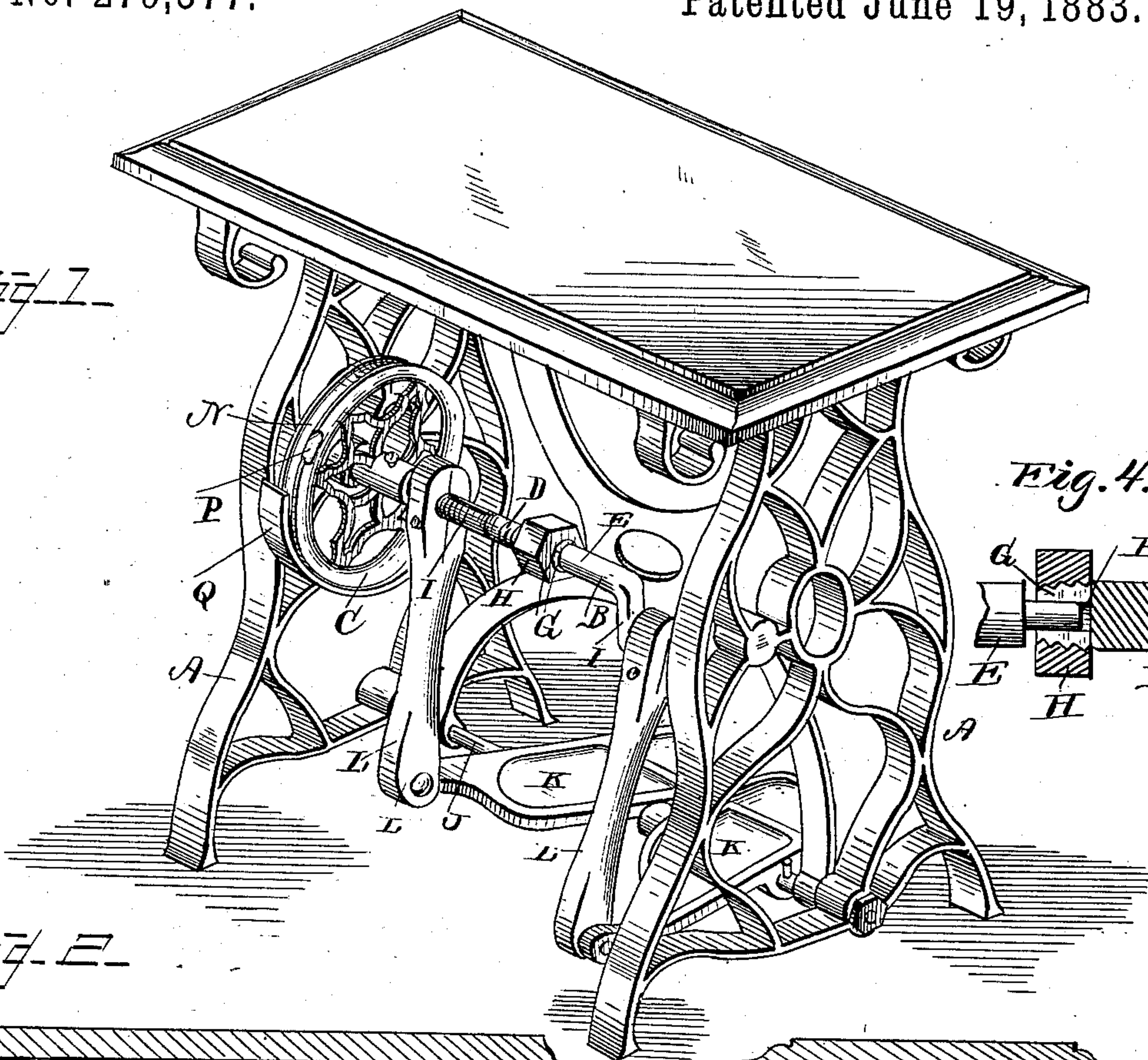


Fig. 4.

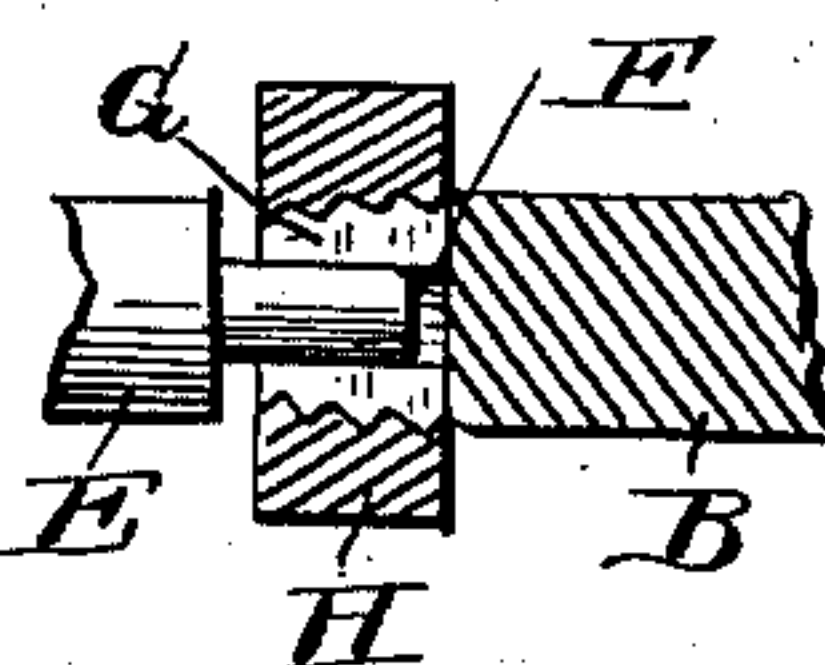
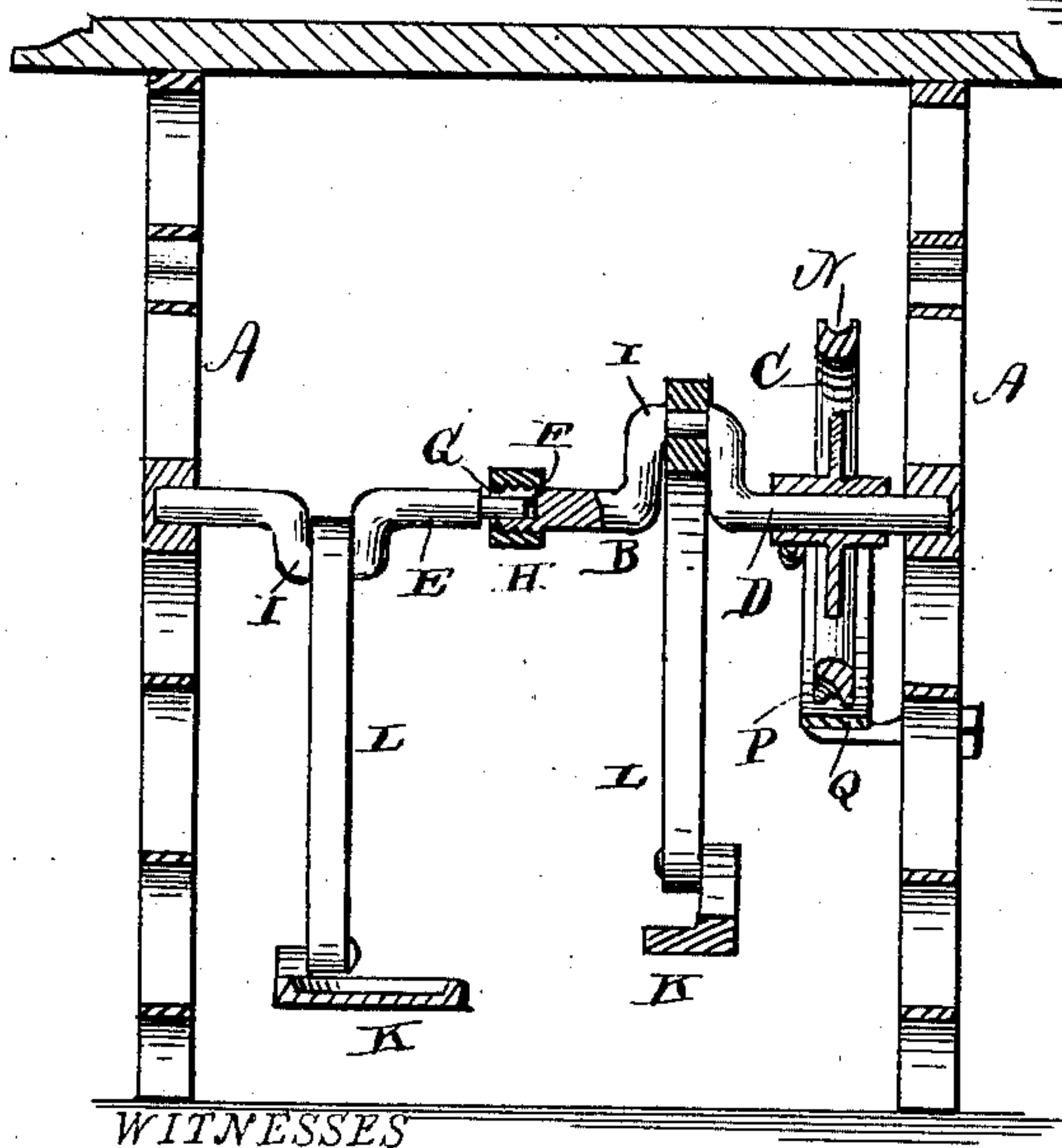


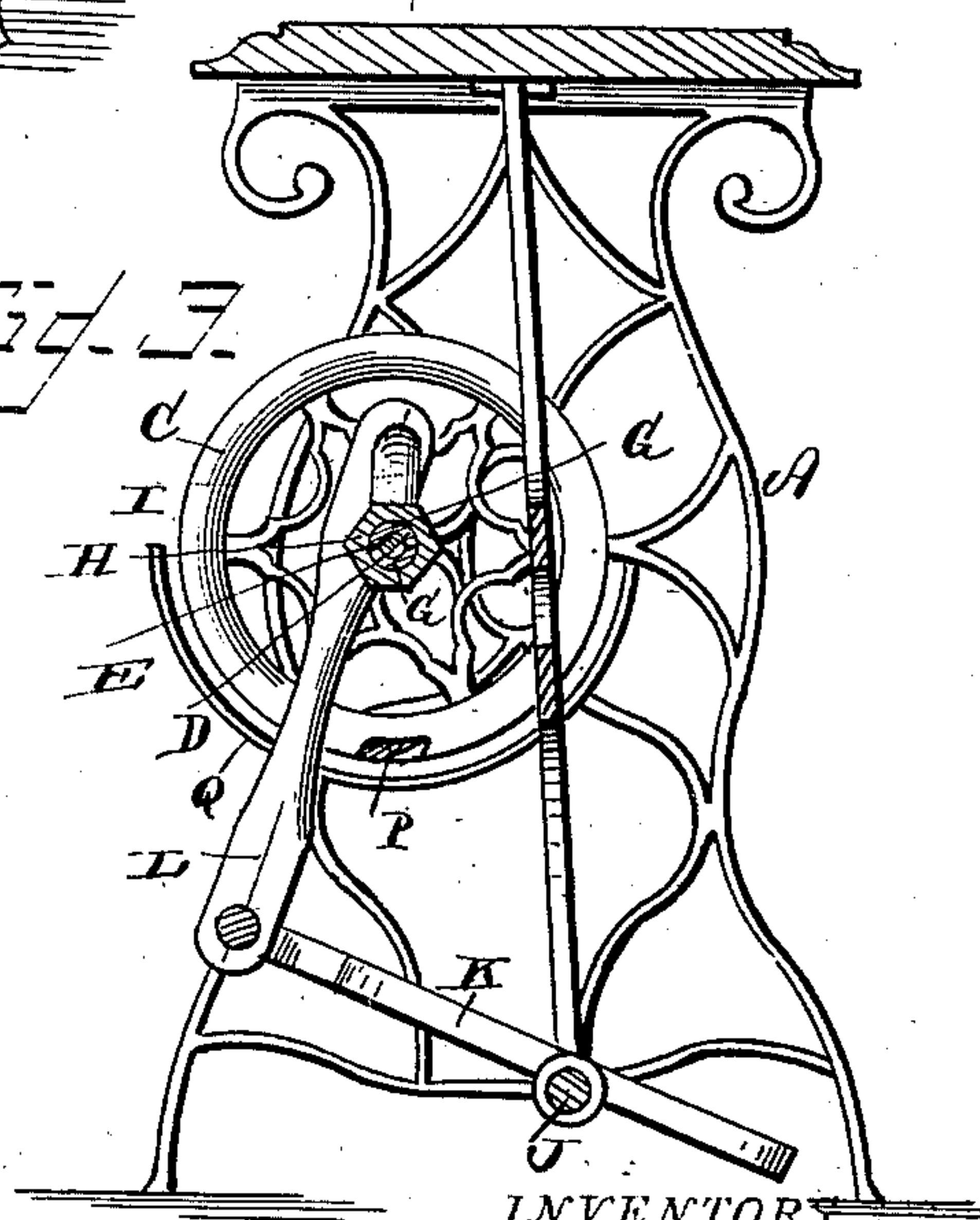
Fig. 2.



WITNESSES

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Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE A. LOCKWOOD AND DON ORRILL, OF CHARITON, IOWA.

TREADLE.

SPECIFICATION forming part of Letters Patent No. 279,577, dated June 19, 1883.

Application filed April 3, 1883. (No model.)

To all whom it may concern:

Be it known that we, GEORGE ALONZO LOCKWOOD and DON ORRILL, citizens of the United States, residing at Chariton, in the county of Lucas and State of Iowa, have invented a new and useful Treadle, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to treadles and band-wheels for sewing-machines and other devices that are run by foot-power; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a perspective view, showing our improvements applied to the frame or table of a sewing-machine. Fig. 2 is a longitudinal sectional view taken through the crank-shaft. Fig. 3 is a transverse vertical sectional view of the same. Fig. 4 is a detail view, showing the construction of the compound shaft on a larger scale.

The same letters refer to the same parts in all the figures.

A in the drawings designates the frame, which is provided with bearings for the shaft B, carrying the band-wheel C. The shaft B is a compound shaft, consisting of two parts or sections, D and E, the former of which is provided at its inner end with a socket, F, to receive the inner end of the latter. The socket F is split, or provided with longitudinal slits G, and its outer side is conical and screw-threaded and provided with a tightening-nut, H. Both of the sections D and E are provided with cranks I. By the construction just described the said cranks may be adjusted at any desired angle to each other, and the shaft may be lengthened or shortened, so as to be fitted to frames of various sizes.

J is a transverse shaft, upon which are journaled the treadles K K, which are independent of each other and connected with the cranks I by pitmen L.

C is the band-wheel, the periphery of which has a groove, N, to receive the band. One of the flanges, O, at the outer side of the groove

has an inclined notch, P, in which the band may be adjusted, when by simply giving the wheel a single turn the band will automatically slip into the groove formed for its reception. A guard, Q, is provided for the band-wheel for the purpose of preventing the belt or band from slipping off the same.

The operation and advantages of my invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The treadles may be readily adjusted to a position that is convenient and natural to the operator, while at the same time the cranks upon the shaft B are at an angle to each other. It will thus be seen that one crank at least is always off a dead-center, and it is therefore possible to start or stop the machine at any time and instantaneously by means of the treadles alone. The construction is simple and inexpensive, and the invention is applicable to all machines adapted to be operated by foot-power.

We claim as our invention and desire to secure by Letters Patent of the United States—

1. In a treadle-power, the herein-described crank-shaft, consisting of two parts or sections, one of which is provided with a conical split screw-threaded socket to receive the end of the other, in combination with a suitable tightening-nut, as and for the purpose set forth.

2. In a treadle-power, the combination of the frame, the crank-shaft consisting of two sections, one of which is provided at its inner end with a conical split screw-threaded socket to receive the inner end of the other section, both sections being provided with separate cranks, a tightening-nut, a transverse shaft, treadles mounted independently upon said shaft, and pitmen connecting the said treadles with the said cranks, as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

GEORGE ALONZO LOCKWOOD.

DON ORRILL.

Witnesses:

J. A. PENICK,

JOS. C. MITCHELL.