

(No Model.)

G. DAVIS.
FOOT POWER.

No. 288,778.

Patented Nov. 20, 1883.

Fig. 1.

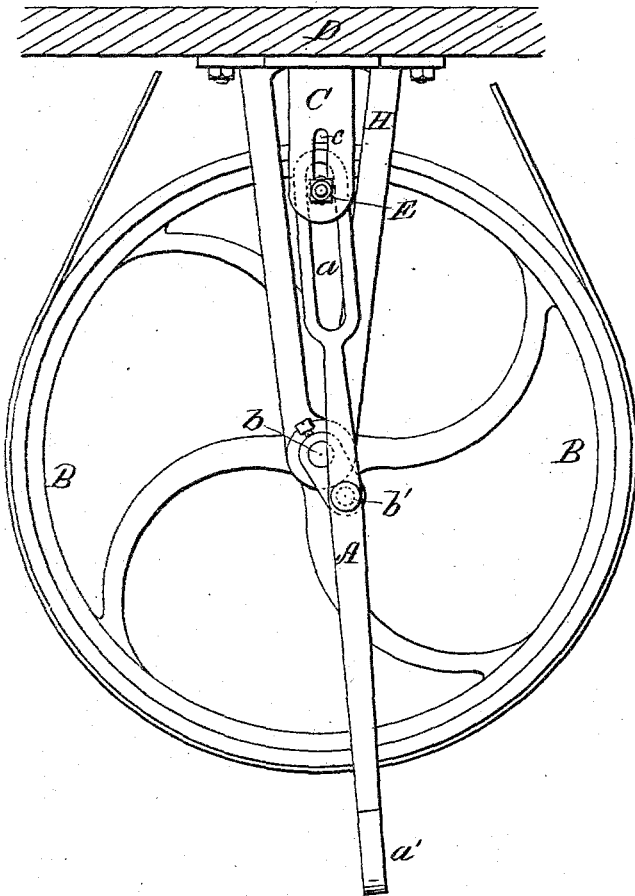


Fig. 2.

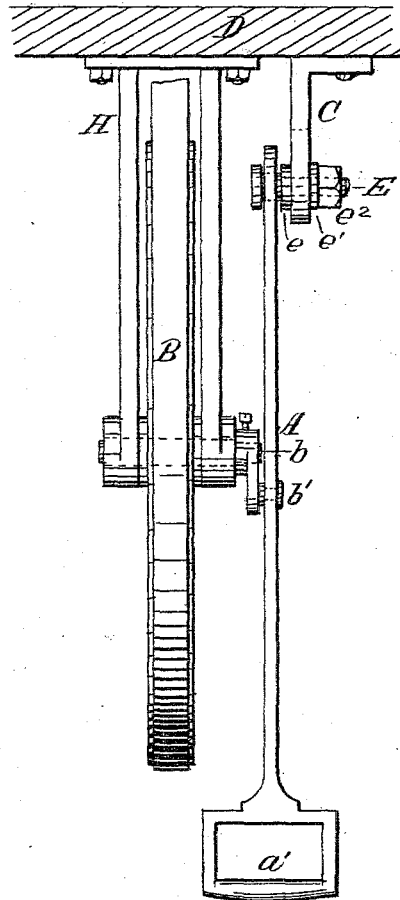
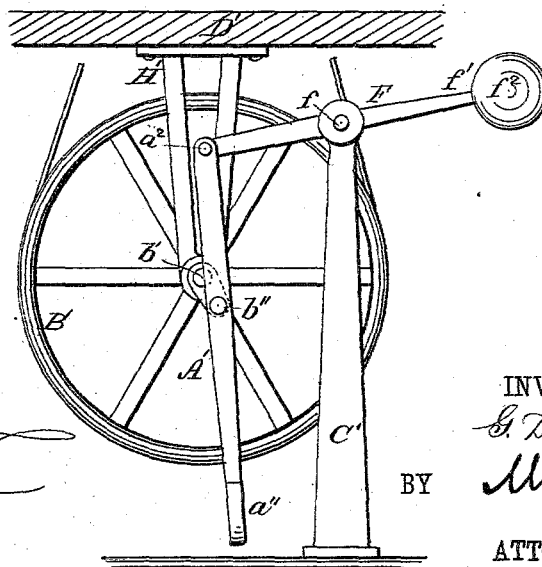


Fig. 3.



WITNESSES:

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FOOT-POWER.

SPECIFICATION forming part of Letters Patent No. 288,778, dated November 20, 1883.

Application filed September 14, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE DAVIS, of Richmond, Henrico county, Virginia, have invented a new and Improved Foot-Power, of which the following is a full, clear, and exact description.

This invention is for an improved device for turning the driving-wheel of a foot-power for a lathe or any other machine adapted to run by foot-power; and it consists of the herein-after described and claimed combination and arrangement of parts.

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

Figure 1 is a side elevation of my improved foot-power, and Fig. 2 is a front elevation of the same. Fig. 3 is a side elevation, showing a modified form of the stirrup-lever and of its fulcrum-support.

A is the stirrup-lever, connected with the driving-wheel B by the crank-pin b' of its crank b , which enters a socket provided therefor in the lever A. It has at its lower end the stirrup a' , and at its upper end a slot, a , adapted to receive the pin E, on which lever A has a vertical motion. Stirrup a' is adapted to receive the foot of the operator.

C is a hanger attached to the under side of the bench or table D, which supports the lathe or other machine. Hanger C has a slot, c , adapted for the reception of bolt E, and in which bolt E may be adjusted up or down. Bolt E has a collar, e , fitting against the side of hanger C, and is secured thereto by a washer, e' , and nut e^2 , and is adapted to fit into the slot a of lever A as a fulcrum-rest therefor and to allow the lever A to move vertically thereon.

Driving-wheel B is of any ordinary construction, and adapted for either a flat or a round belt. It is supported on its axle in bearings by the hanger H, which is attached to the under side of bench D, or it may be hung in a support resting on the floor.

The operation is as follows: The several parts being adjusted as above described, the operator places his foot in the stirrup, and by downward pressure, pushing, pulling, or by an upward pressure of the foot on the stirrup, the wheel is started and caused to revolve.

The advantages of my invention are, that at whatever point the driving-wheel may stop it may be readily started by either pressing upon, lifting, pushing, or pulling on the stirrup with the foot, whereas in using the ordinary construction the wheel is liable to stop at a position where it cannot be started by the stirrup-rod. My improvement can be operated with greater ease, as the pushing motion is more natural and more powerful than a direct downward pressure of the foot of the operator, because he does not stand directly over the place where the pressure is to be applied.

In the modification of my invention shown in Fig. 3, the support C' rests upon and is secured to the floor. The fulcrum-rest a^2 for lever A' is in the end of a lever, F, which has a vertical rocking motion about the pivot f in the support C' , and thus allows the stirrup-lever A' to have a vertical motion, as in the arrangement shown in Figs. 1 and 2. Lever F has a weight, f^2 , at its extremity f' to counterbalance the weight of the lever A' .

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

1. The slotted hanger C, in combination with the stirrup-lever A, substantially as herein shown and described.

2. In a foot-power, the combination, with the crank b of a balance-wheel and the slotted hanger C, of the slotted stirrup-lever A and the adjustable fulcrum-pin E, substantially as described and set forth.

GEORGE DAVIS.

Witnesses:

J. W. ANDERSON,
GEO. E. CRAWFORD.