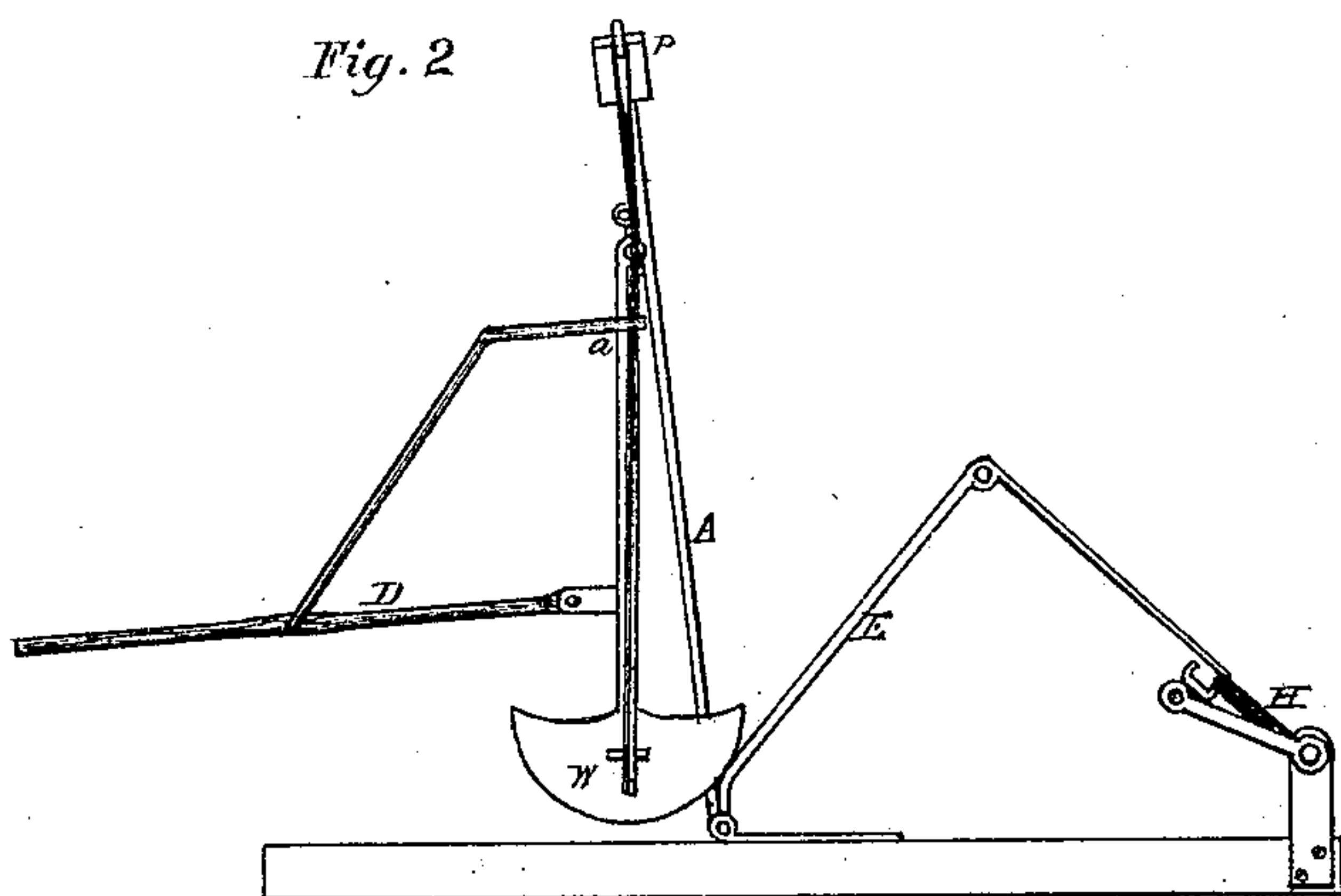
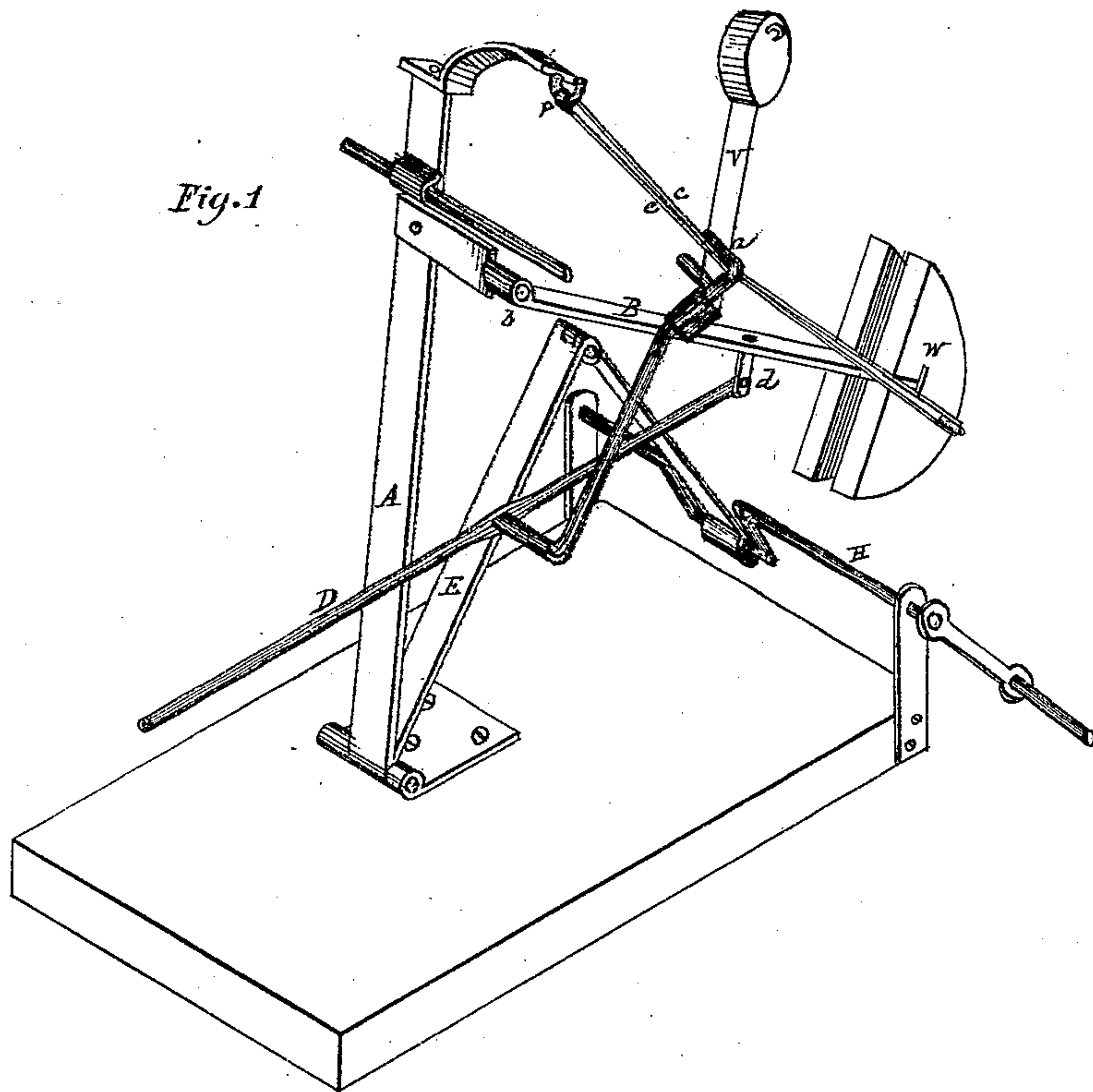


H. Fowler,

Motor.

No. 107,474.

Patented Sept. 20. 1870.



Witnesses

H. D. Bois
J. W. Stearns

Inventor
Harvey Fowler

United States Patent Office.

HARVEY FOWLER, OF WASHINGTON, DISTRICT OF COLUMBIA.

Letters Patent No. 107,474, dated September 20, 1870.

IMPROVEMENT IN MECHANICAL HAND-MOTORS.

The Schedule referred to in these Letters Patent and making part of the same.

I, HARVEY FOWLER, of the city of Washington, District of Columbia, have invented an Improved Mechanical Hand-Motor, of which the following is a specification.

This invention consists in the use of weighted levers or pendulums, in connection with elastic suspensory cords, made of coiled springs or otherwise, for the purpose of propelling carriages, cars, or other machinery.

In the accompanying drawing—

Figure 1 is an isometrical perspective view, and

Figure 2, a side view of the several parts in another position.

A is an oscillating vertical standard, pivoted at or near its foot, and supported upon a platform, or otherwise.

B is a swinging weighted lever or pendulum, supported on the pivot *b*, near the top of the standard A. Of such or similar weighted levers there may be two, one on each side of the standard A.

From the weighted part W of the lever B an elastic cord, *c*, (which may be substituted with a coiled spring, having a rod or rope running through it, protected with a sheath, if necessary, *x*,) passes up to a point of support, P, above the point upon which the pendulum swings.

Pivoted to the shank of said pendulum, near the weight W, at *d*, is a handle, D, extending horizontally, and having a claw, *a*, for grasping the suspensory cord, if desired, for the purpose of communicating, by the hand of an operator, a swinging motion to said pendulum.

Also pivoted or hinged to said standard A, either at its foot, below the pivot upon which it stands, or at some point above said pivot, is a shaft or pitman, E, extending to and connected with a crank, H, for the purpose of giving motion to machinery, or to the driving-wheels of a car or carriage.

To lessen the force necessary to be applied to the handle D, the weighted arm V may be attached to the claw *a*, as shown in fig. 1.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of a weighted swinging lever or pendulum (supported upon an oscillating standard or arm of the same) with an elastic suspensory cord, said cord being attached to a support above the axis of the said pendulum, and connecting the weighted portion thereof with said point of support, thus constituting a second support for said pendulum, substantially as and for the purpose described.

2. The elastic coil-spring, or equivalent device, in combination with the pendulum, substantially as and for the purpose described.

3. The combination of a vertical weight with a hinged handle, said handle having a claw, to take hold of the suspensory cord connected with the pendulum, substantially as and for the purpose described.

HARVEY FOWLER.

Witnesses:

N. DU BOIS,

J. W. MESTER.