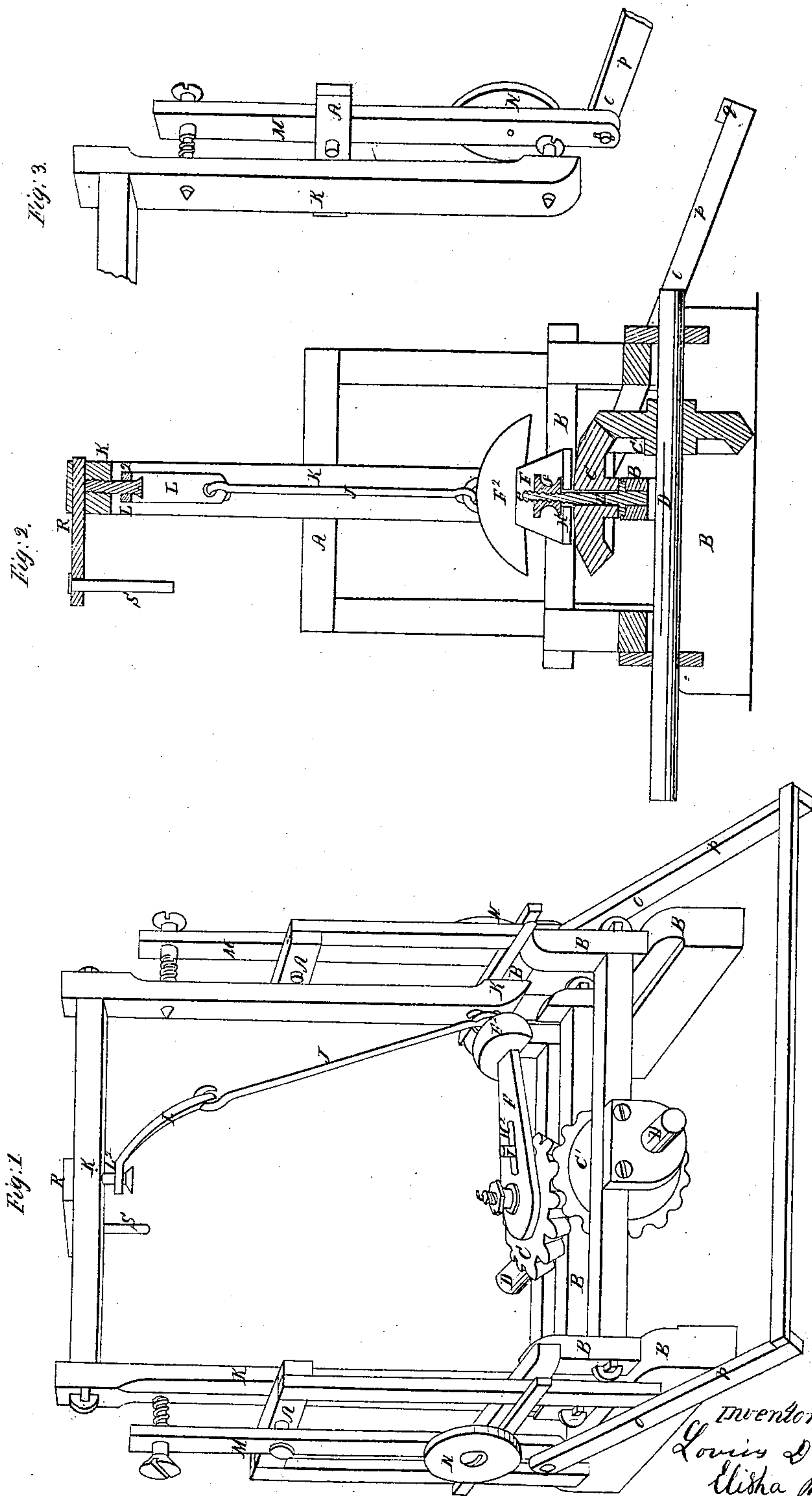


Towsley & Matteson, Motor.

N^o 29,329.

Patented July 24, 1860.



Witnesses;
Asbury Green
Abner Palmer

Inventor;
Louis D. Towsley
Elisha Matteson

UNITED STATES PATENT OFFICE.

LOVIAS D. TOWSLEY, OF NEW YORK, AND E. MATTESON, OF BROOKLYN, NEW YORK.

MOTIVE POWER.

Specification of Letters Patent No. 29,329, dated July 24, 1860.

To all whom it may concern:

Be it known that we, LOVIAS D. TOWSLEY, of New York, in the county and State of New York, and ELISHA MATTESON, of Brooklyn, in the county of Kings and State of New York, have invented, made, and applied to use certain new and useful Improvements in Motive Powers; and we do declare the following to be a full, clear, and correct description of the same, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, in which—

Figure I is an edge perspective view of our improved motive power; Fig. II, a cut sectional view of the same; Fig. III, a side view of part of oscillating frame and pendulum lever, showing the mode of attaching the same.

Similar letters on the drawings, indicate like parts of the invention.

The nature of our invention consists in the construction and operation of a motive power, as hereinafter described.

To enable others skilled in the art to make and use our invention, we will proceed to describe the same, and its operation.

A, A, A represent a frame for supporting the working parts of the motive power; B, a bed-piece extending across the frame A, A, A, on which is placed cog-wheel C, gearing into cog-wheel C', placed on shaft D, which shaft D, is suspended transversely upon frame A, A, A.

Passing upward from bed-piece B and through cog-wheel C, is the post E, having its top end provided with a screw (e) and nut (f) for the purpose of retaining the cog-wheel C in position, and which also forms the step or rest for a weighted lever F. This weighted lever F, is composed of a lever (F') and weight F² cast upon or attached to the same in any convenient way. This weighted lever (F) is attached to the post (E) by means of a circular opening (H) in the end of the lever F' through which the post E passes and when placed upon the same, the weighted lever (F) is held in position by means of the screw (e) and nut (f) previously described. The arm or lever F' is also provided with a slot (H²) through which a pin I placed on the cog-wheel C passes and by which the weighted lever F is more directly connected with the cog-wheel C and motion is imparted to the same. In some cases a flange or pin placed

on each side of the lever may be used for this purpose. The weighted lever F is also attached to an oscillating frame K, by a rod or chain J, passing from the outer end of the weight (F²) in a right line to the center of the oscillating frame (K) and connecting with a swivel L at the top of the same (L²). This oscillating frame (K) is attached to the general frame (A A A) of the machine, by a journal inserted in a parallel line with the post E or otherwise. On the upper end of the general frame A A A, are attached by means of journals, the upright side of pendulum levers M M. These levers (M M) are slotted (n n), by which means they are readily connected by journals or otherwise with the oscillating frame K. On the lower ends of these levers (M, M) are attached the pendulum weights (N, N) which serve as governors to regulate the motion of the weighted lever (F). To these levers (M, M) near their lower ends, is attached the handle (o) or appliance for operating the machine, consisting of the side pieces (p, p) connected together by the cross piece (q).

To the center of the oscillating frame (K) is attached the projecting plate (R) from which is suspended the pin (S) intended to act as a rest for a starting-bar, in case the weight (F²) should ever find its lowest point and stop there.

Operation: Before starting the machine, it is necessary that the weighted lever F should be placed in the position shown in drawing I. Motion may then be imparted to the weighted lever, by oscillating the handle O, or appliance for operating the machine, by which means the oscillating frame K is thrown out of its perpendicular position and the weighted lever F is forced to seek its proper center and by a continual oscillation of frame K, this may be prevented. As the weighted lever F rotates, motion is imparted to cog-wheel C, which gearing into cog-wheel C² placed on the line shaft D, causes the line shaft D to revolve. By this means a large amount of power may be produced and the machine is applicable to all purposes that other motive powers may be used for.

We do not claim to create power, as the power already exists in the weight F², acting by its own gravity when placed in a proper position by the oscillation of frame K.

In constructing our motive power, we do

not intend to confine ourselves to the particular mode herein shown, for operating the same, as we are aware many others may be used.

5 What we claim as new and desire to secure by Letters Patent is—

1. The weighted lever F, placed in position as shown, in combination with its connections at top and bottom, arranged and
10 operated for the purpose set forth.

2. The combination of the oscillating frame K, general frame A, A, A, side levers M, M and pendulum weights N, N, when the same shall be arranged and operated as herein set forth and for the purpose specified.

LOVIAS D. TOWSLEY.
ELISHA MATTESON.

In presence of—

ALBERT PALMER,
A. SIDNEY DOANE.