C. HUEBNER.

Motor.

No. 201,923. Patented April 2, 1878.

Fig: 1.

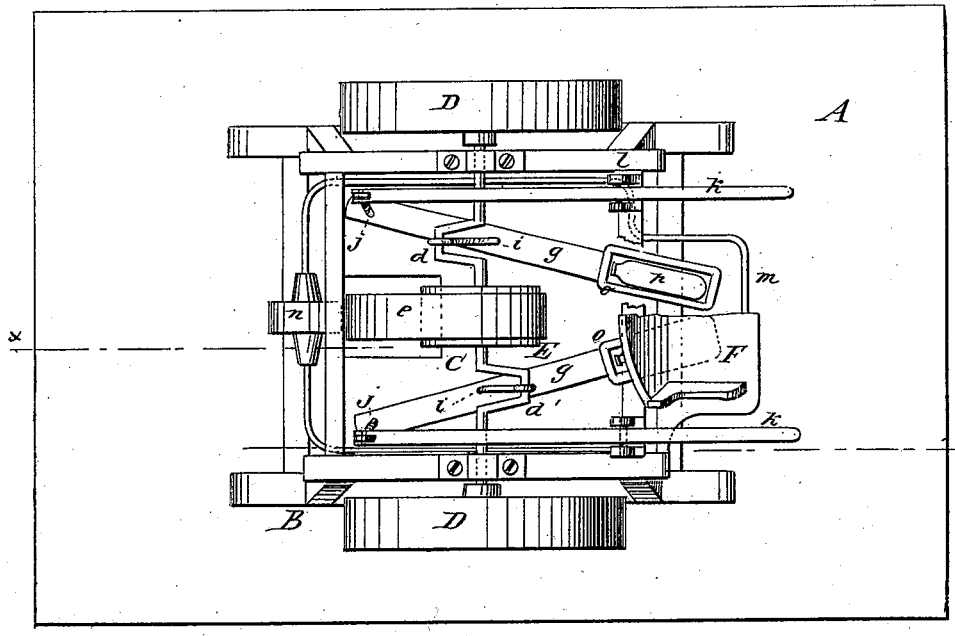
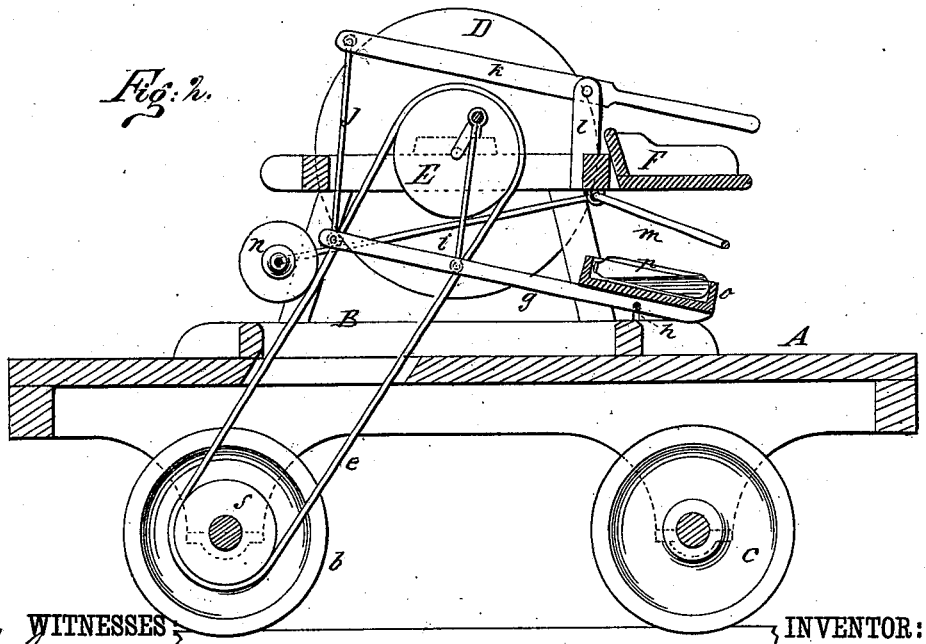


Fig: 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CASPAR HÜEBNER, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN MOTORS.

Specification forming part of Letters Patent No. **201,923,** dated April 2, 1878; application filed February 23, 1878.

To all whom it may concern:

Be it known that I, CASPAR HÜEBNER, of Newark, in the county of Essex and State of New Jersey, have invented a new and Improved Motor, of which the following is a specification:

Figure 1 is a plan view of my improved motor as applied to a hand-car. Fig. 2 is a vertical section taken on line *x x* in Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention relates to that class of motors in which power is stored and afterward given out, so as to be effective in performing work.

The invention consists in a shaft having two oppositely-arranged cranks, which are connected with levers which carry mercury-chambers, and are connected with hand-levers. The shaft is provided with two heavy fly-wheels, and with a wheel for receiving the power-transmitting belt.

In the present case the motor will be described as applied to a hand-car; but I do not confine myself to this use.

Referring to the drawing, A is a small platform-car, mounted on wheels *b c*, and carrying the frame B, in which is journaled a shaft, C, having formed in it two oppositely-arranged cranks, *d d'*, and having at each end a heavy fly-wheel, D, and in the middle a pulley, E, which receives a belt, *e*, which also passes around a pulley, *f*, on the axle of the wheels *b*. Levers *g*, which are fulcrumed at *h* in the lower portion of the frame B, are connected with the cranks by connecting-rods *i*, and are connected at their free ends, by rods *j*, with the hand-levers *k*, which are fulcrumed in standards *l*, that project from the upper part of the frame B. A seat, F, is attached to the frame B, between the hand-levers and over the fulcrum of the levers *g*. Below the seat F there is a double or divided lever, *m*, which extends beyond the belt *e*, and supports a tightening-pulley, *n*, which rests upon the belt. Upon each of the levers *g* a box, *o*, is secured, which extends equally on both sides of the fulcrum of the lever. In these boxes are placed bottles *p*, which are partly filled with mercury.

The operation of the machine is as follows: The person desiring to propel the car sits in the seat F, and operates the levers *k* until a high velocity is attained in the fly-wheels D. The power thus accumulated is given out for a great length of time.

When the machine is working to its full capacity and it is desired to stop the car, the tightening-pulley *n* is lifted from the belt.

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

The combination of the shaft C, having oppositely-arranged cranks *d d'*, and fly-wheels D, the levers *g*, having the vessels *p* partly filled with mercury, and the hand-levers *k*, in combination, substantially as herein shown and described.

CASPAR HÜEBNER.

Witnesses:

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