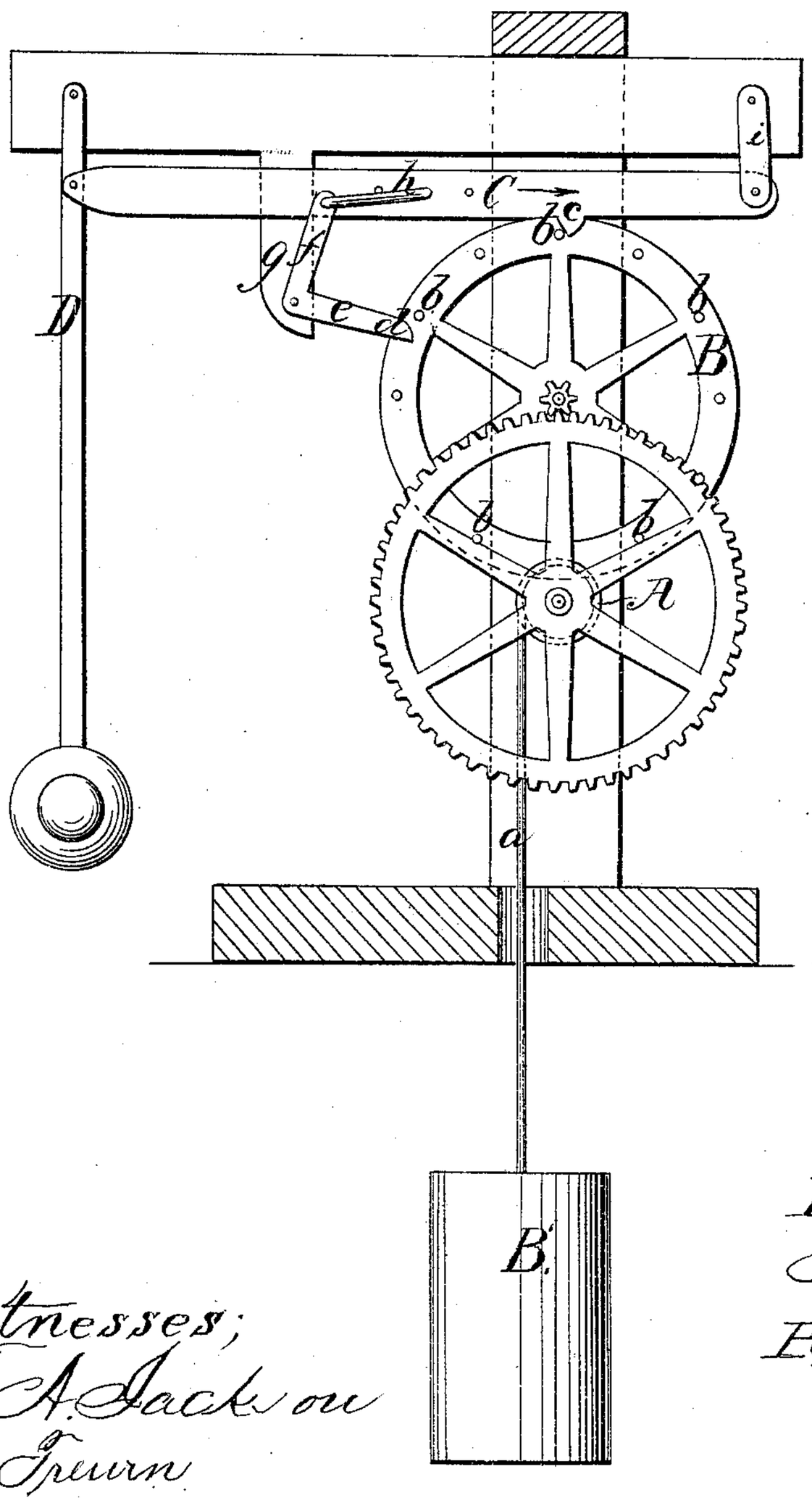
A. Eckert,

Motor.

No. 61,179. Patented Jan. 15, 1867.



Witnesses;
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AUGUSTUS ECKERT, OF TRENTON, OHIO.

Letters Patent No. 61,179, *dated January* 15, 1867.

IMPROVEMENT IN CONVERTING MOTION.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, AUGUSTUS ECKERT, of Trenton, Butler county, State of Ohio, have invented a new and useful Improvement in Converting Motion; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

The drawing represents a sectional side elevation of this invention.

This invention relates to a novel kind of an escapement, which is so constructed that by the action of a weight or spring or suitable gear-wheels an oscillating motion can be imparted to a pendulum, and a device is obtained which can be used with advantage for operating a fan or for imparting motion to a device of a similar nature.

A represents a drum, on which a rope or cord, *a*, is wound, and from this rope or cord is suspended the weight B, which forms the driving power of my mechanism. It is obvious that instead of the weight a spring may be employed to produce the required power. The drum A connects, by a train of wheels, with the escape-wheel B, which is provided with a series of pins, *b*, projecting from its side, and these pins act alternately on the pallets *c d*. One of these pallets is formed by a nose projecting from the lower edge of a rod, C, and the other pallet is formed by one arm, *e*, of an elbow-lever, *e f*, which has its fulcrum on a stationary hanger, *g*. The arm *f* of said elbow-lever connects by a rod, *h*, with the rod C, which is suspended at one end from a link, *i*, while its opposite end is hinged to the pendulum D near its fulcrum *j*. The length of this pendulum and the weight of its disk depend upon the work to be accomplished. If a revolving motion is imparted to the drum A by a weight or spring, one of the pins *b* in the escape-wheel bears against the pallet *c* and forces the rod C out in the direction of the arrow marked thereon in the drawing. By these means the pendulum is disturbed from its position of rest, and as soon as the pin of the escape-wheel releases the pallet *c* the pendulum begins to oscillate, and an impulse is given to it by the action of one of the pins of the escape-wheel against the pallet *d*. If said pin passes the pallet *d*, one of the other pins *b* is caught by the pallet *c*, and an impulse is given to the pendulum in the opposite direction, and as the oscillating motion of the pendulum continues, an impulse is given to it at the beginning of each oscillation, and a device is obtained which can be used with great advantage for the purpose of operating a fan or for driving any other light mechanism or machine where an oscillating motion is required.

I claim as new, and desire to secure by Letters Patent—

The lever C with its nose *c*, pivoted at one end to the link *i*, and to the other end to the pendulum D, connected by the rod *h* to the elbow-lever *e f*, having its fulcrum on the stationary hanger, operating in combination with the escape-wheel B, with pins *b*, in the manner described for the purpose specified.

The above specification of my invention signed by me this 8th day of July, 1866.

AUGUSTUS ECKERT.

Witnesses:

WM. F. MCNAMARA,

ALEX. F. ROBERTS.