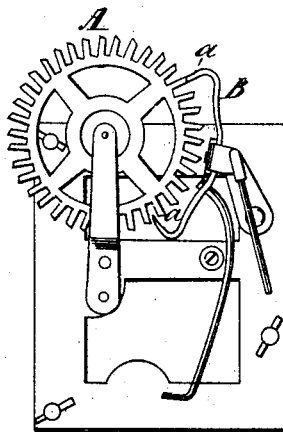


B.B. Lewis

Clock Escapement.

N^o 106,843.

Patented Aug. 31, 1870.



Witnesses

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BENJAMIN B. LEWIS, OF BRISTOL, CONNECTICUT, ASSIGNOR TO HIMSELF,
AND WELCH, SPRING & CO.

Letters Patent No. 106,843, dated August 30, 1870.

IMPROVEMENT IN CLOCK-ESCAPEMENTS.

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

I, BENJAMIN B. LEWIS, of Bristol, in the county of Hartford and State of Connecticut, have invented a new and useful Improvement in Escapements, of which the following is a specification.

My invention consists of a verge having repose-pallets only, in combination with an escapement-wheel provided with hooked teeth, the ends of which teeth are beveled, and act upon the ends of the verge, giving them the necessary impulse to propel the pendulum-rod and ball.

The accompanying drawing is a front view of an escapement of my invention.

A designates the escapement-wheel, having hooked teeth, the sides of which teeth are parallel, or nearly so, and the ends of which are slightly beveled.

B designates a verge, provided with repose-pallets, *a a*, both of which are alike, or nearly so.

The ends of the metal forming each pallet *a a* are rounded, to present a smooth surface to the beveled ends of the teeth of the escapement-wheel A.

The wheel and verge can be pivoted to the plates of the clock in any of the ordinary modes; but, for a cheap clock, I prefer to arrange the escapement-wheel in front of both of the movement-plates, and pivot the verge by ears, in the same manner of pivoting the common recoil-verge.

The operation is as follows:

The ends of the verge alternately swing into the space between the teeth of the escapement-wheel, while one corner of one of the teeth rests upon one of the repose-pallets *a a*, until the pendulum-ball has swung its full arc, and returned so far as to withdraw the repose-pallet *a* from the space between the teeth of the escapement-wheel when the ends of the verge rest upon the beveled end of one of the teeth, which gives the verge and pendulum-ball an impulse toward the opposite side of the clock, when the other end of the verge acts upon the escapement-wheel, as before.

The advantages of my invention are, that the verge is reversible, so that it can be worked with the crotch-wire in either direction, and that I produce a first-class escapement, which can be made at as small a cost as any other escapement.

I claim as my invention—

The escapement-wheel A, constructed with the beveled end teeth, as shown, in combination with the verge B, having repose-pallets only, both constructed and operating together substantially as described.

BENJAMIN B. LEWIS.

Witnesses:

S. C. SPRING,
JAMES SHEPARD.