7561X

W. Loomis,

Motor.

Patented Apr. 29, 1833.

Fig.

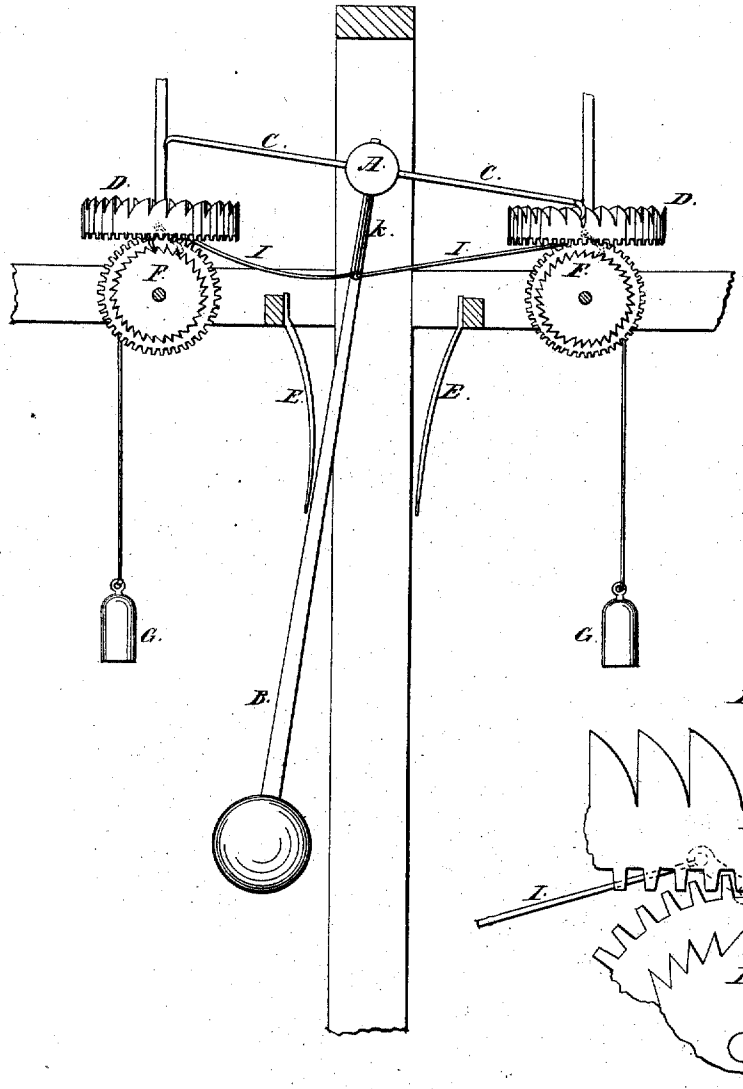


Fig.

AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

William Loomis 7561X 4-29-1833

The Schedule referred to in these Letters Patent and making part of the same containing a description in the case of the said William Loomis his mode of his improvement being a hitherto new machine

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The machine which is designed to operate any kind of mechanical machinery consists of a frame the size and proportion of which must be varied according to the machinery to be operated. At the centre of the top of the frame is an arbor to which is attached a pendulum rod at or near the end of which is the pendulum weight, on the arbor, and perpendicular to the pendulum rod are two arms of bending in opposite directions, each end operating in a crown or centre wheel, properly placed with teeth, and by the alternate action of these wheels the pendulum is kept in motion. Near the other end of the arbor, arms are also fixed to which the machinery to be operated is attached. When the pendulum is moving to either extreme its motion is accelerated back by means of springs operating on the pendulum rod.

The motion to each of the wheels is conducted by means of one or more other wheels and pinions from a weight attached to a ratch wheel or the machine may be kept in motion by any other sufficient power. To each of these crown or centre wheels is a dog to catch in the teeth of the wheel and suspend its motion while the other wheel is in operation. The dog is drawn from the teeth of the wheel when the pendulum is moving to its extreme opposite direction by a chain or rod to which it is attached, the other end of the chain or rod being fixed to a pin or bolt by turning sometimes from the arbor of the wheel when the dog becomes disengaged

[illegible] the cam, giving forth one revolution [illegible] the fundusses, and when the teeth of the wheel [illegible] cam, having passed beyond it reach, the motion of the wheel is again held in check by the dog. Thus by the alternate action of the wheels, & the motion communicated to the pendulum is continued until the weight is run down.

Witnesses

H.B. William S. Ellis

Jun. 1837 Charles Bulfinch Jr.

William Lovins

(Pr in Portfolio)

(Spanish)