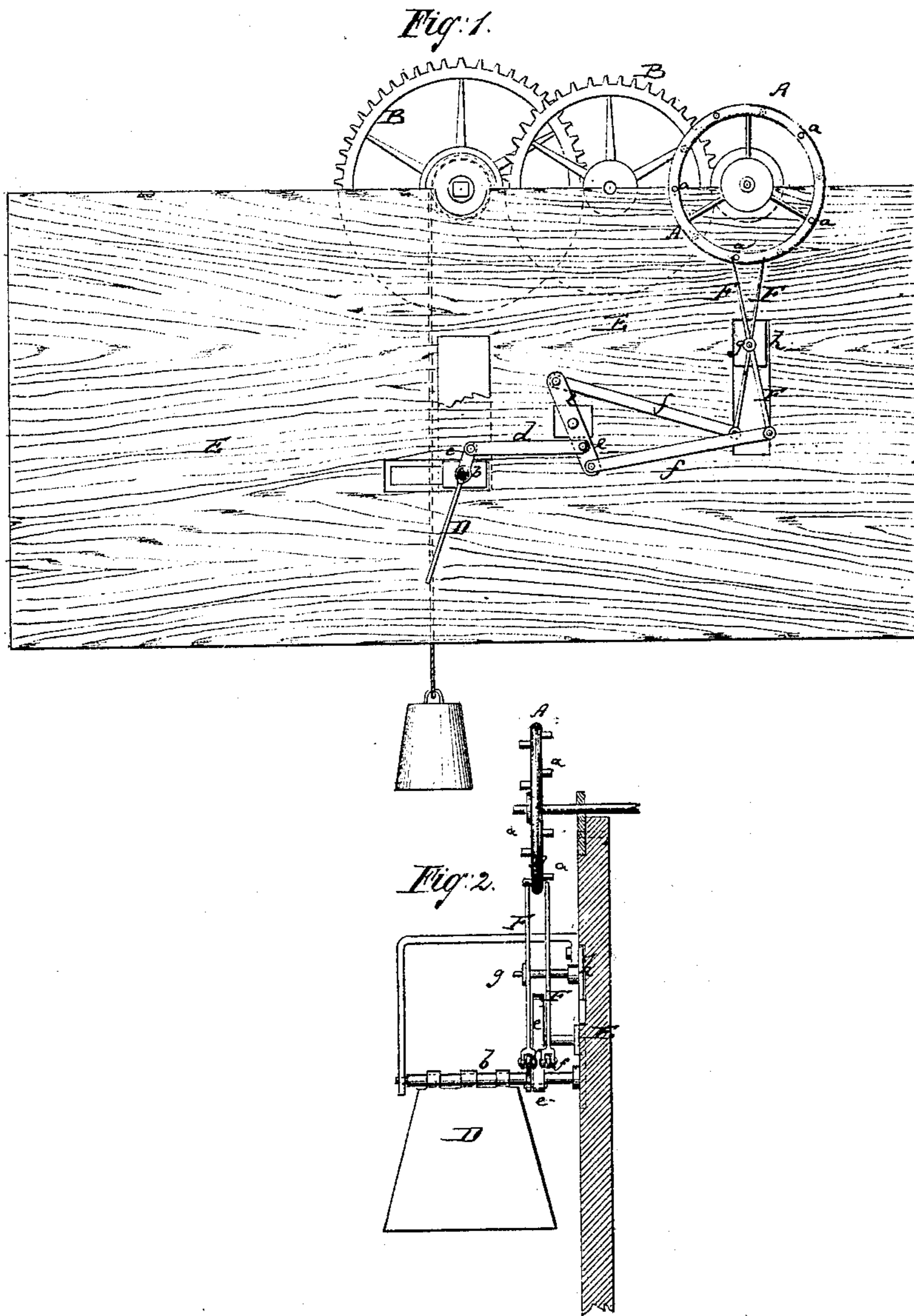


E. F. Doremus,

Automatic Fan.

No. 111,917.

Patented Feb. 21. 1871.



Witnesses:

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Inventor:

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EDWARD P. DOREMUS, OF WASHINGTON, LOUISIANA.

Letters Patent No. 111,917, dated February 21, 1871; antedated February 11, 1871.

IMPROVEMENT IN FANNING-MACHINES.

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, EDWARD P. DOREMUS, of Washington, in the parish of St. Landry and State of Louisiana, have invented a new and improved Fanning-Machine; 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, in which—

Figure 1 represents a front view of my improved fanning-machine.

Figure 2 is a transverse section of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new mechanism for moving fans by means of clock-work, and consists in the use of double-jointed levers, which are combined with the escapement-wheel of the works, to impart oscillating motion to a connecting-link and the fan.

The invention will be very convenient for working fans in parlor and work-rooms, but can also be used as an appendix to machinery of all kinds.

A in the drawing represents the escapement-wheel of a clock-work, B, which is of suitable construction, and propelled either by a spring weight or other power.

The wheel A has projecting pins *a* on both sides, set at equal spaces apart, those in front being set between those on the reverse side, and *vice versa*.

D is the fan to be oscillated. It is suspended from

a horizontal arbor, *b*, which is hung in the frame E of the apparatus.

The arbor *b* has a crank, *c*, which is, by means of a link, *d*, connected with a pivoted beam, *e*.

The beam *e* is pivoted to the frame E at the middle. Its ends are by means of rods *f f* connected with two levers F F.

Both levers F are pivoted by one common pin, *g*, to a vertically adjustable slide, *h*. Their lower ends are connected with the rods *f f*. Their upper ends are placed against the opposite faces of the wheel A, and are alternately struck by the pins *a* during the revolution of the wheel A.

As the levers F are oscillated by the pins *a* of the escapement-wheel, they impart similar motion to the beam *e*, which transmits it to the fan.

By being vertically adjustable, as aforesaid, the levers F can be set up, as their ends are worn by contact with the pins *a*.

Small friction-rollers may be fitted upon the pins *a*, and each roller covered with rubber, to reduce the noise of motion.

Having thus described my invention,

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

The combination of the wheel A and pins *a a*, with the levers F F, rods *f f*, beam *e*, and fan D, all arranged to operate as set forth.

Witnesses: EDWARD P. DOREMUS.

M. D. KAVANAGH,

GEORGE W. MORGAN.