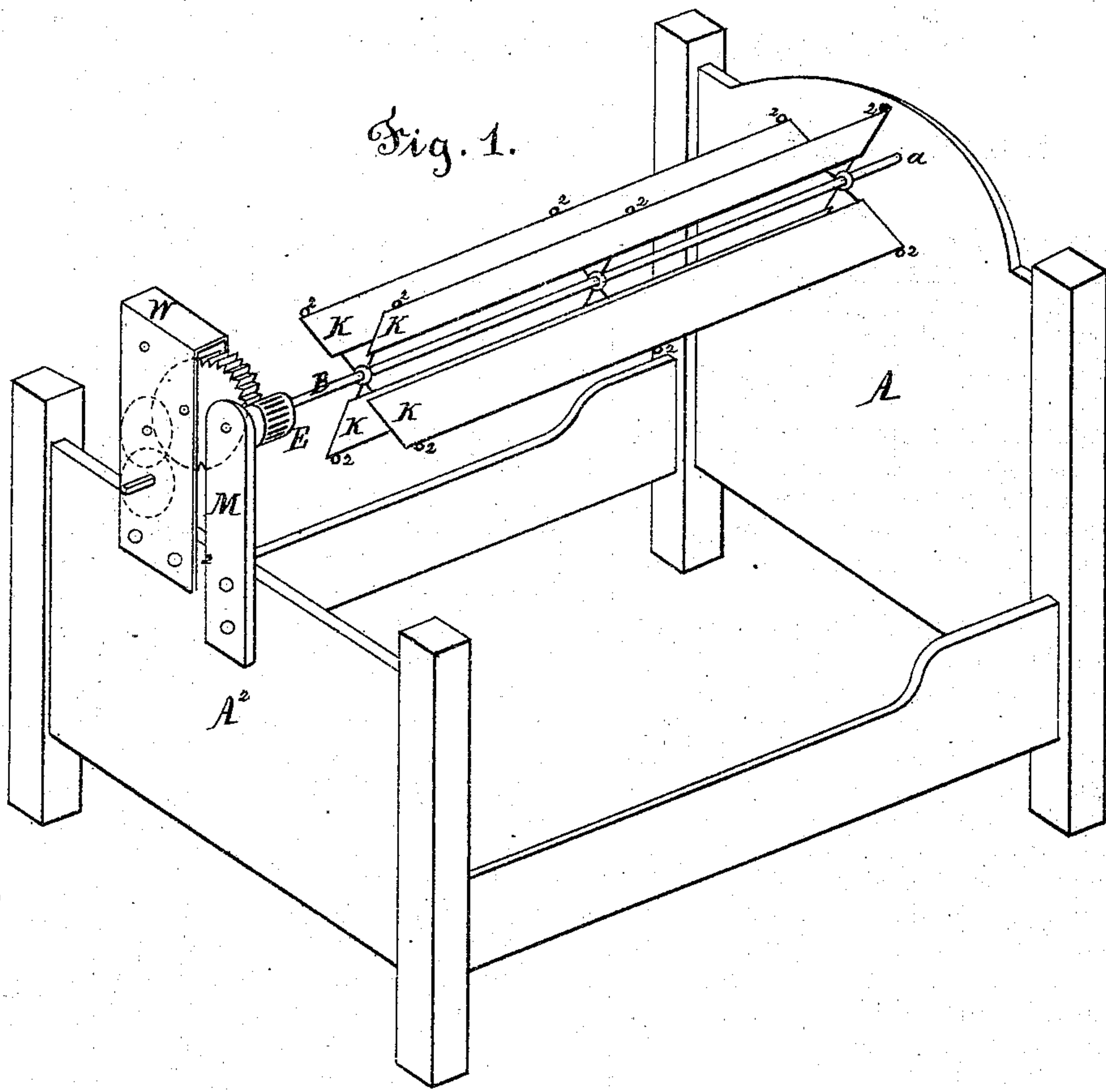


Edward D. Swartwouts
Bedstead Fan.

117346

PATENTED JUL 25 1871



Witnesses.

John Lane.
Julius A Lane.

Inventor.

Edward D. Swartout.

UNITED STATES PATENT OFFICE.

EDWARD D. SWARTWOUT, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN AUTOMATIC FANS.

Specification forming part of Letters Patent No. 117,346, dated July 25, 1871.

To all whom it may concern:

Be it known that I, EDWARD D. SWARTWOUT, of Chicago, in the State of Illinois, have invented certain Improvements Combining a Fan or Air-Agitator with a Bedstead, of which the following is a specification:

The nature of my invention consists in combining a fan with a bedstead, arranged in such a manner that the fan shall be caused to revolve or vibrate by means of clock-work and agitate the air immediately over the bed, substantially as is hereinafter set forth.

Referring to the drawing, Figure 1 is a perspective view of a fan and bedstead.

The bedstead may be of any known construction, the head-board A and the foot-board A² being a support, and from which is suspended the shaft B, and in case either the head-board or the foot-board is not of sufficient height, uprights M may be used as a support to the shaft B above the head-board or the foot-board, as shown in the drawing. One end of the shaft B is pivoted at a to the head-board A, and the other end is pivoted to the foot-board A² or to its upright M, as shown. The shaft B is provided with cross-arms 2 near each of its ends, and there may be more or less arms, and there may be, or may not be, arms at the center of the shaft. To the arms 2 I secure the blowers or air-agitators K. I prefer to use for the blowers a thin close-woven cloth, but any proper material may be used, and may be attached to the arms 2 in any proper manner. Near one end of the shaft B I secure a cog-wheel, E, which is geared into a cog-wheel of the clock-

work W. The clock-work W may be any common clock, or a train of more or less wheels driven by a spring or a weight, and the clock-work is so arranged and situated that one of its wheels, or an auxiliary wheel, shall mesh or gear into the cog-wheel E.

In operation the clock-work W imparts motion to the shaft B, causing it to revolve, carrying round the blowers K, agitating the air immediately over the bed. The shaft B may be caused to revolve at any desired speed by the proper adjustment and size of the wheels in the clock-work and of the wheel E, producing a slow motion to agitate the air, or a fast motion to fan persons lying on the bed.

Mosquito-bars and curtains may be used around and over the bedstead, and the air over the bed is kept constantly in motion from evening until morning.

I claim—

In combination with a bedstead, the bearing-shaft B, supported at the head and the foot of the bedstead, and to which is attached blowers K, constructed and arranged to operate with the clock-work, substantially as shown, whereby the blowers are caused to revolve or to vibrate and agitate the air immediately over the bed, all constructed and arranged relatively to each other, substantially as shown and for the purpose set forth.

EDWARD D. SWARTWOUT.

Witnesses:

JOHN LANE,
JULIUS A. LANE.