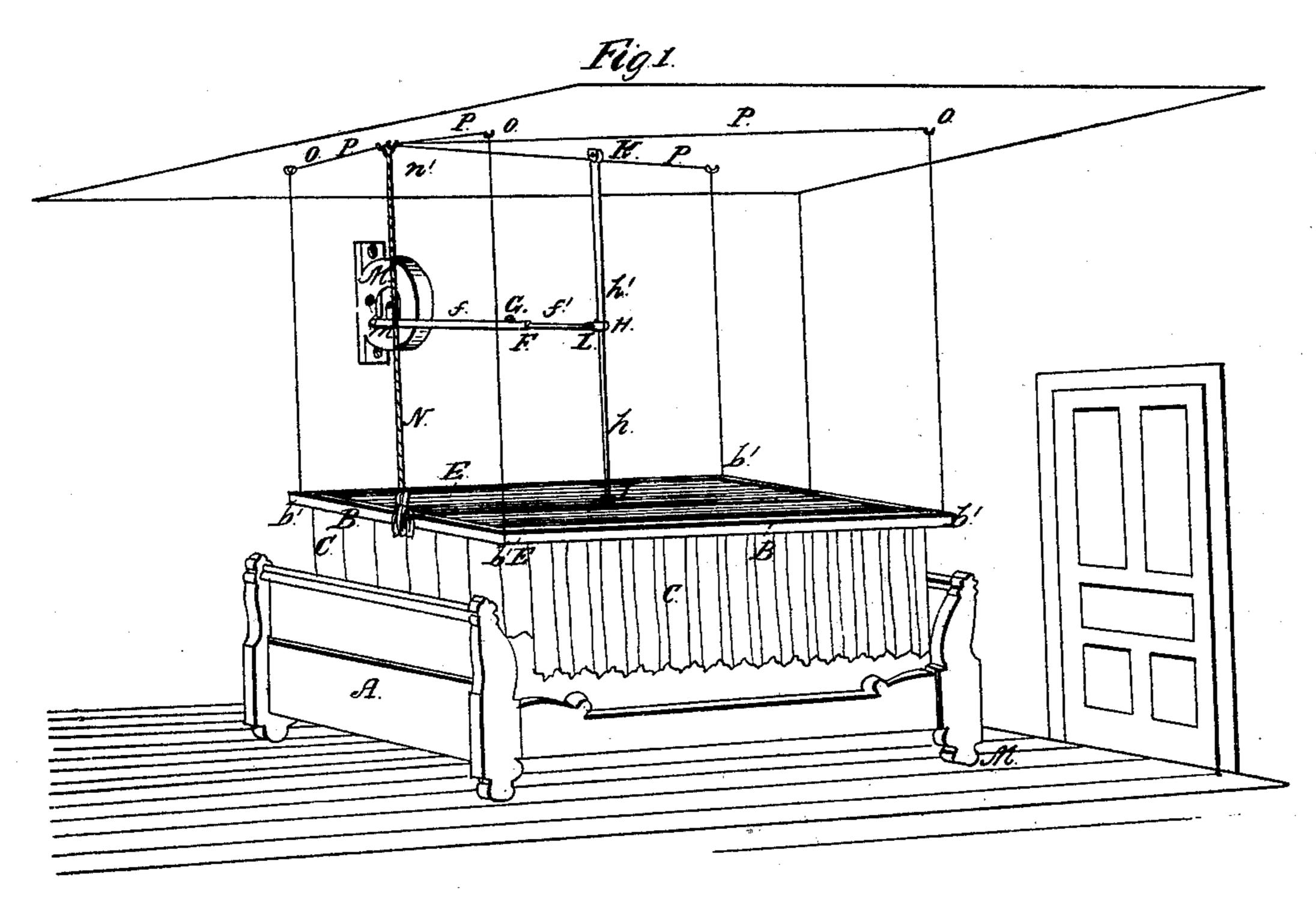
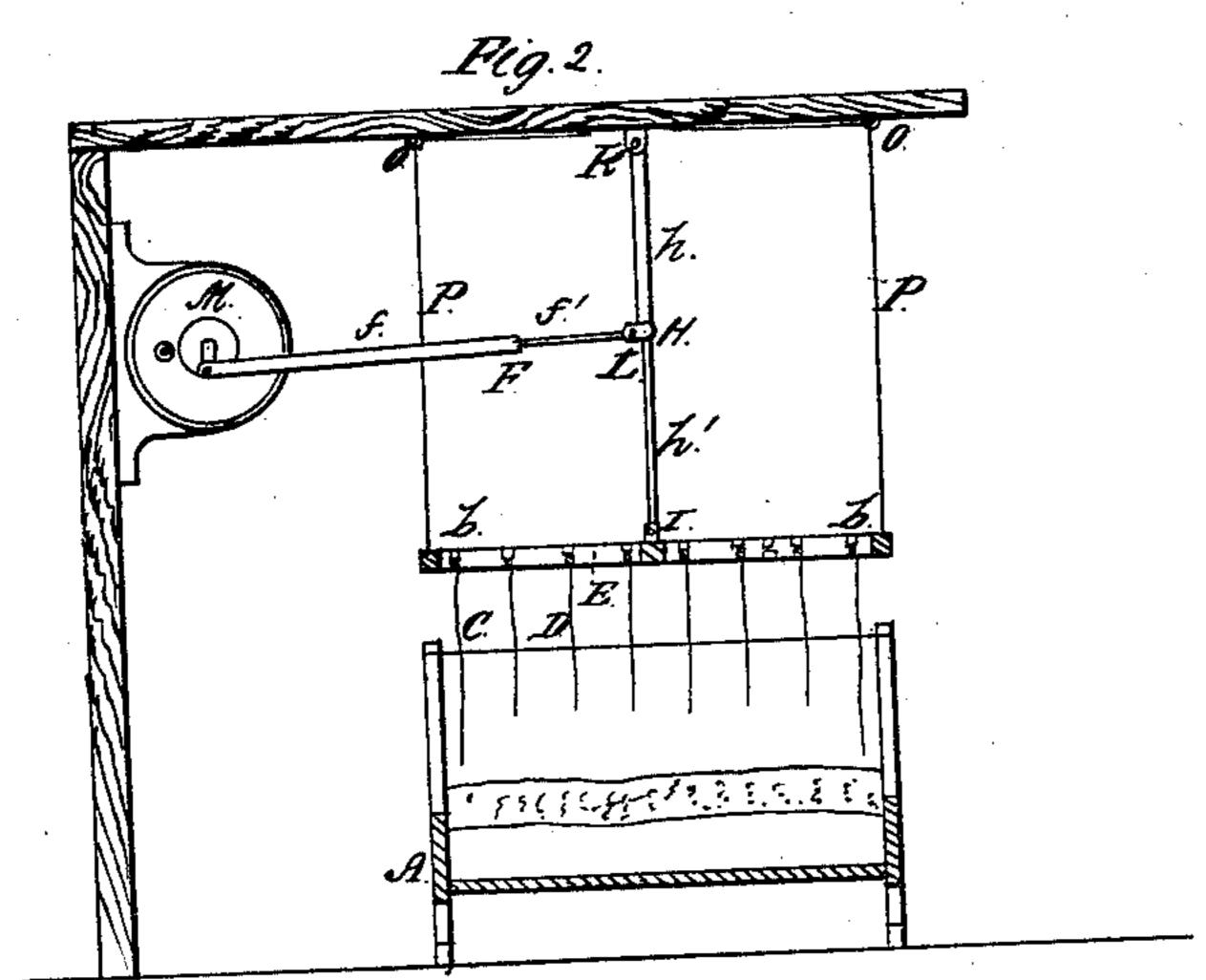
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Witnesses. Am Stout Chattlekher Chas. 8 Whitman

Henry X & games & nright

Inventor

## UNITED STATES PATENT OFFICE.

JAMES D. WRIGHT, OF BERGEN, NEW JERSEY, ASSIGNOR TO HIMSELF AND HENRY X. WRIGHT, OF ST. LOUIS, MISSOURI.

## IMPROVED MOSQUITO-FAN AND AIR-CIRCULATOR.

Specification forming part of Letters Patent No. 86,336, dated January 26, 1869.

To all whom it may concern:

Be it known that I, James D. Wright, of Bergen, in the county of Hudson and State of New Jersey, have invented a new and Improved Mosquito-Fan and Air-Circulator; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

Like letters represent like parts in both fig-

ures.

Figure 1 is a perspective view, and Fig. 2

a transverse vertical section.

The following description will enable those skilled in the art to understand and make use

of my invention.

My invention relates to an article of household furniture, which I term a "mosquito-fan and air-circulator;" and consists in a horizontal frame suspended over a bedstead, and of such a form that it will swing easily between the posts thereof; in attaching fans or flaps to the said frame, which move to and fro when actuated in the manner hereinafter described; in combining with the said frame a canopy to exclude insects; and in a hoisting apparatus, by which the said frame may be raised or lowered by the occupant of the bed while in a reclining posture.

In the figures, A is the bedstead, which may be of any of the ordinary forms in use. B is a horizontal and rectangular frame, made of some light kind of wood, and of such a form that it will swing easily to and fro between the posts of the bedstead. The width of the said frame is equal to that of the bedstead, and its length a little less than that of the bedstead. Sockets b b, Fig. 2, are cut in the end pieces of the frame, at the head and foot of the bedstead, for the reception of the ends of the fan-rods. C C are the outer fans, which are cut wider than the interior ones, in order that they may form a curtain on each side of the bedstead. D D are the interior fans, which, in this instance, are six in number; but the said number may be increased or diminished at pleasure. EE are the rods to which the said fans are attached, made of a length coextensive with that of the said frame, and fit-

ting loosely in the sockets b, in such a manner that they may be detached at pleasure.

F is the actuating-shaft, composed of the two parts f and f'. The part f, which is attached to the motor made use of, is a tube of thin metal or wood, the bore of which is sufficient size to allow the part f', which is a slender rod of metal or wood, to glide backward and forward within the same. This form of construction allows the said actuating-shaft to be lengthened or shortened at pleasure. G is an adjusting-screw, by means of which the parts of the said shaft F are held firmly in position.

H is the vertical pendulum-shaft, which is composed of two parts, h and h'. The upper part, h, is a hollow tube of metal or wood, the bore of which is of such a capacity as to admit the rod h'. I is a staple secured to the central bar of the frame B. To this staple the rod h' is attached by means of a link or hook. K is an eyebolt or staple attached to the ceiling, or, if I prefer it, to the top of a bedstead, to which the tube part h of the pendulum-shaft H is hooked, linked, or bolted in such manner as to admit of vibratory motion. L is an eyebolt or staple at the lower end of the tube H, into which the actuating-shaft F is hooked or bolted.

M is the motor, which, in this instance, is an escapement, operating the actuating-shaft by means of the crank m, but which may be any kind of motive power which I may prefer to use. N is the lifting-cord, the tassel n of which is within easy reach from the head of the bed. At its upper end, n', the said ends are separated into several strands. O O are staples or single-pulley blocks, secured to the ceiling, or, if I prefer it, to the top of the bedstead. PP are the four strands into which the lifting-rope is separated at the upper end, n'. The said strands are first rove together through the staple or pulley-block at n', and thence led separately through the four staples or single blocks o, and are secured to the four corners b' of the frame B.

Over the frame B a canopy of netting or lace may be secured in such a manner that its lower ends will drop over the sides of the bed, and thus prevent insects from getting in.

The operation of my invention is as follows:

The revolution of the crank of the motor made use of imparts a reciprocating motion to the actuating-shaft, which causes the pendulum-shaft H and the frame B, to which it is attached, as hereinbefore described, to vibrate to and fro, thereby, by means of the fans D, causing a constant circulation of the air about the occupant of the bed.

The frame is raised or lowered, to suit the convenience of the person within the bed, by the application of a slight force to the cord N.

I am aware that fans have been used in eastern tropical countries from time immemorial, and that they are in use, to a limited ex-

tent, in this country. I do not claim generally, therefore, the use of the same.

I claim and desire to secure by Letters Patent—

The combination and arrangement of the actuating shaft t, the pendulum-shaft H, the lifting-cord N, the strands P, the frame B, the rods E, the fans C D, and the canopy covering the frame, substantially as set forth.

JAMES D. WRIGHT.

Witnesses:

R. S. Ross, Wm. H. Brereton.