(No Model.)

J. T. WALLACE & W. D. HOLLEMAN.

FANNING MACHINE.

No. 453,453. Patented June 2, 1891.

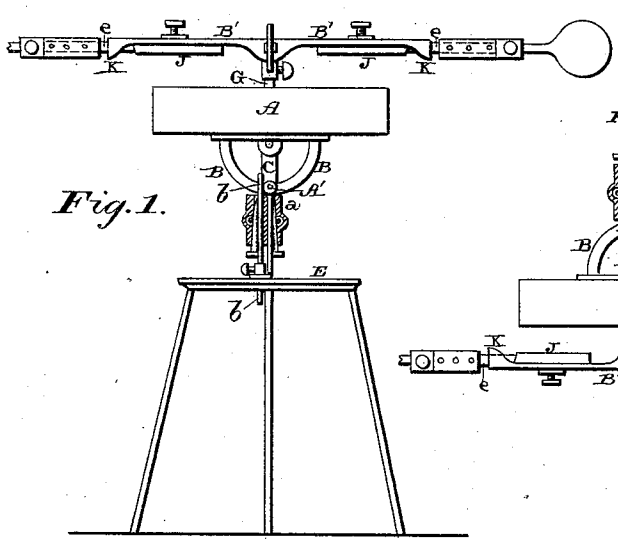


Fig. 1.

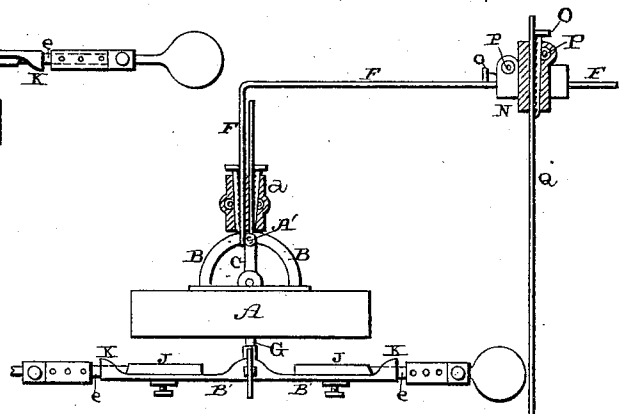
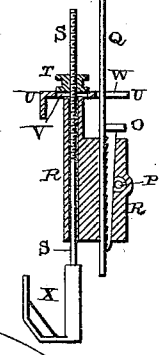


Fig. 2.



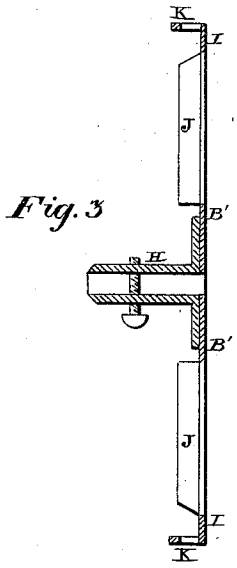


Fig. 3

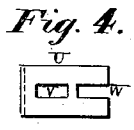


Fig. 4.

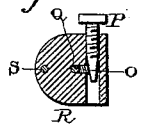


Fig. 5.

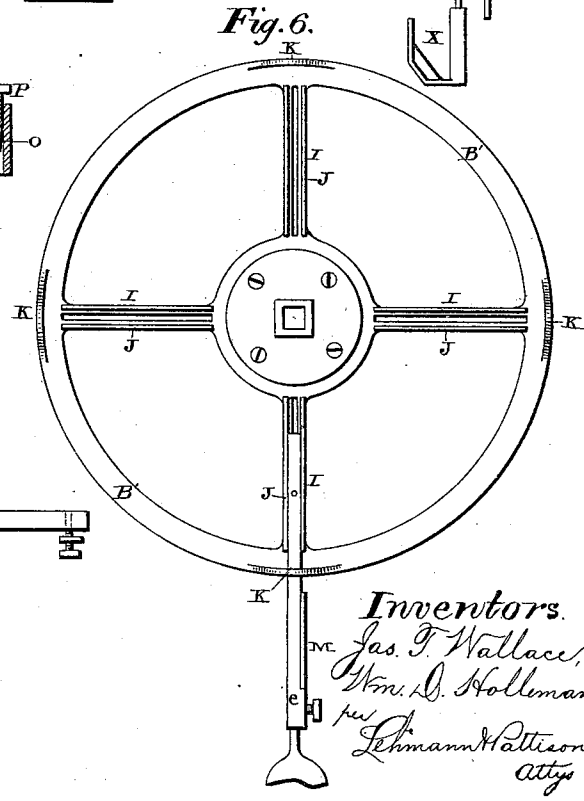


Fig. 6.

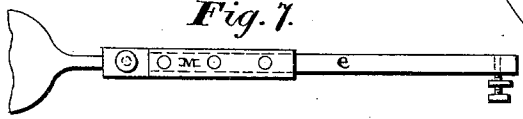


Fig. 7.

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UNITED STATES PATENT OFFICE.

JAMES T. WALLACE AND WILLIAM D. HOLLEMAN, OF GOULD, TEXAS.

FANNING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 453,453, dated June 2, 1891.

Application filed May 17, 1890. Serial No. 352,229. (No model.)

To all whom it may concern:

Be it known that we, JAMES T. WALLACE and WILLIAM D. HOLLEMAN, of Gould, in the county of Rusk and State of Texas, have invented certain new and useful Improvements in Fanning-Machines; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form part of this specification.

Our invention relates to an improvement in fanning-machines; and it consists in the construction and arrangement of parts, which will be fully described hereinafter.

The object of our invention is to produce a portable fanning-machine which can be placed upon a table or other support or attached to a bed, chair, lounge, or seat of any kind, so as to both fan and keep away flies and insects from a person who may be sleeping or resting, or from a sick person, as may be desired, and which fan is cheap and simple in construction and can be made to revolve at any desired speed.

Figure 1 is a side elevation of a machine which embodies our invention, showing the fan placed upon a table or support. Fig. 2 is a similar view showing the fan suspended from the back of a chair, the clamping-devices being shown in section. Fig. 3 is a vertical section of the fan-wheel to which the arms are attached. Figs. 4, 5, 6, and 7 are detail views.

A represents the case or frame in which the fanning mechanism is placed, and secured to one side of this frame is the semicircular frame B, which is secured rigidly to the frame in any suitable manner. Pivoted at the center of this frame B is the arm C, which can sweep through a portion of a circle for the purpose of placing the frame A at any desired angle, and it is secured in the adjusted position by means of the set-screw A'. The lower end of the arm C is secured in one of the openings made in the clamping-frame *a*, and in the other opening is secured the upper end of a rod *b*, which has its opposite end fastened to or in any suitable support. Upon the top of the stand or table E is placed a suitable tube, through which passes a set-screw, so that the rod *b*, which passes down through the tube in the top of the table, can be held in any desired position. In case it is not desired to place the fan A upon a stand or table E, but to suspend it above a chair, bed, lounge, or other place for the purpose of keeping flies or insects away from a sleeping, resting, or sick person the frame A will be inverted and the rod *b* will be removed and the bent rod F will be substituted for it.

Secured to the fan-shaft G, which projects from the frame A, is a flange, tube, or thimble H, which is secured to the end of the shaft G by the set-screw which passes through the thimble at one side of its center. To the flange on the outer end of this thimble is secured a fan-wheel B', having slotted spokes I, which are formed of sheet metal, and provided with the flanges J, which extend at right angles to the slotted portions, and with a rim which connects the outer ends of the spokes I. Through the slots in the arms are passed set-screws, and the flanges J hold the fan-arms in a line with the spokes. At the outer edge of the wheel, opposite the slotted spokes, are the flanges K, which are turned backward and provided with holes through which the fan-arms pass. The set-screws, which are provided with suitable clamping-flanges, pass through the slots into the spokes and into the arms, and thus clamp the arms in any desired position. The slots through the arms, being made to extend the whole length of the spokes, enable the arms *e* to be adjusted back and forth at the will of the operator, either for the purpose of causing the fan to run slower or faster, as may be desired. The fan-arms will be of any length desired, and are provided with sockets at their outer ends to receive fans of any desired shape, and which fans are held by set-screws or other clamping devices. To the side of each arm may be applied a flat piece M of any suitable material, and through this piece M are passed set-screws for the purpose of fastening fringe or any suitable material which may be used independently or in connection with the fan, as may be preferred. By using a wheel to which the arms are attached the arms are made to sweep around more evenly and with a greater force than can be done where the arms are used alone, and by making the wheel

of light cheap material it can be stamped up and made much more quickly and readily than where iron or other similar material is used. If desired, however, the wheel may be cast or molded of any suitable material.

The rod F has its outer end passed through a cruciform frame N, through which vertical and horizontal openings are made, and which rod is held in any desired relation to the frame N by a wedge O and a tapering screw P, which bears against the outer side of the wedge or key, and forces the teeth of the wedge tightly in contact with the rod F. Passing vertically through the frame N is a rod Q, upon which the frame N is supported at any desired elevation or point by means of a wedge or key O and a tapering screw P. The lower end of this supporting-rod Q passes down through a clamping-frame R, and the lower end of this rod is also held in any desired relation to the frame R by means of a wedge or key O and a tapering screw P. Passing loosely through the front edge of the frame R is a screw-threaded rod S, and placed upon the upper end of this rod S is a nut T, which secures the clamping-plate U to the top of the frame R. This plate U is provided with a slot V, through which the rod S passes, and which slot allows the plate to be adjusted back and forth to accommodate any thickness of material to which it is to be fastened, and it has in its outer end an open-ended slot W, through which the rod Q passes for the purpose of preventing the plate U from getting twisted or turned around. Secured to the lower end of this rod S is a suitable hook X, which is to catch under the top of the chair or any other suitable support to which the fan is to be attached, and which hook is adjusted vertically by the nut T.

By means of a clamping device such as is shown here the fan can be attached to the back of a chair or any other suitable support and held suspended above the top of the chair itself or above the lounge or bed, as may be desired. It is only necessary to place the fan in position, and then by allowing the arms of the fan to revolve it will keep away all flies or insects at the same time that the person is fanned and kept cool.

Having thus described our invention, we claim—

1. In a fanning-machine, the combination of a clamp N, having a vertical and a horizontal opening, the rod F, having one end placed in the said clamp and a fan-frame secured to its opposite end, a supporting-rod Q, having one end placed in the said clamp and its opposite end secured to some object, and a key and a tapering screw in the said clamp for each rod for holding them, substantially as described.

2. In a fanning-machine, the combination, with a fan-supporting rod Q, a frame in which one end is secured, a screw-rod which passes through the said frame, having a hook or clamp upon one end, the slotted plate U, and the nut T, whereby the supporting-rod is secured to an object, substantially as set forth.

3. In a fanning-machine, the combination of the fan-shaft, a wheel having a thimble at its center to catch over the shaft, longitudinally-slotted spokes having flanges at their sides, openings through its periphery opposite the said spokes, and the fan-arms which pass through the openings and between the flanges, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

JAMES T. WALLACE.
WILLIAM D. HOLLEMAN.

Witnesses:
G. R. WOOD,
B. H. BLONTON.