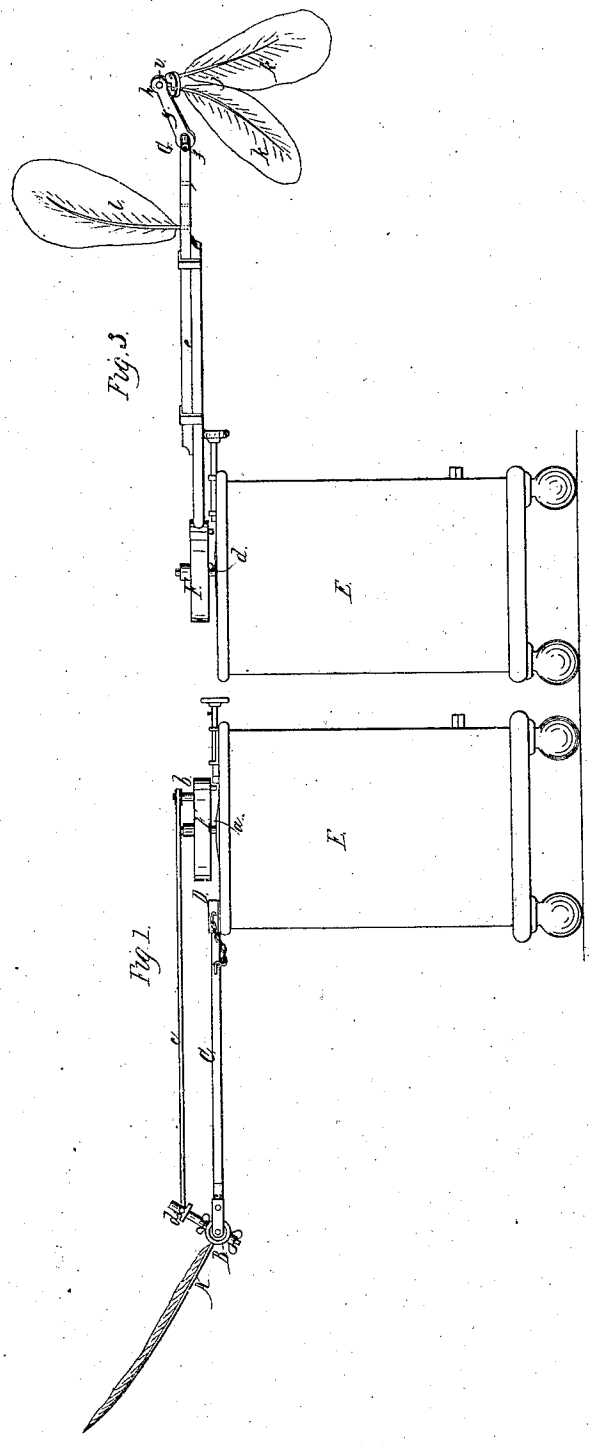
W. Carpenter,

Automatic Fan,

No. 32,970, Patented July 30, 1861.



Witnesses:
Jno Coombs
Wm Simpson

Inventor,
Sophia Carpenter admx
by Munn & Co
Attys.

UNITED STATES PATENT OFFICE.

SOPHIA CARPENTER, OF FLUSHING, NEW YORK, ADMINISTRATRIX OF WM. CARPENTER, DECEASED.

AUTOMATIC FAN AND FLY-BRUSH.

Specification of Letters Patent No. 32,970, dated July 30, 1861.

To all whom it may concern:

Be it known that WILLIAM CARPENTER, deceased, late of Metamora, in the county of Woodford and State of Illinois, did invent a new and Improved Automatic Fan and Fly-Chaser; and I, SOPHIA CARPENTER, of Flushing, in the county of Queens and State of New York, administratrix of WILLIAM CARPENTER aforesaid, do hereby declare that the following is a full, clear, and exact description of the said invention of WILLIAM CARPENTER, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a side elevation of the fan. Fig. 2 is a plan or top view of the same. Fig. 3 is a side elevation of the fly-chaser.

Similar letters of reference indicate corresponding parts in the three figures.

This invention consists in the arrangement of a rock-shaft to which the fan is attached in combination with an eccentric wrist pin on a rotating wheel in such a manner that by the action of the wheel on the rock-shaft an oscillating motion is imparted to the fan and a current of air is created until the motion of the wheel stops; it consists further in the arrangement of a revolving fan attached to an arm which extends from the rotary wheel in a radial direction in such a manner that by the motion of the wheel and by the action of the air an independent rotary motion is imparted to the fan giving to the same the appearance of a bird, and rendering it very effective in chasing away flies, etc.

To enable those skilled in the art to make and use this invention its construction and operation will now be described with reference to the drawing.

The fan A, which is made of feathers, or of any suitable material is secured to rock-shaft B, that has its bearings in the forked end of an arm C. This arm is firmly inserted into a loop or staple D, on the top of the case E, which contains the clock movement, through which motion is imparted to the wheel F. This wheel is secured to a vertical arbor *a*, which extends through the top of the case, and one of the arms of said wheel is provided with an eccentric socket or wrist *b*, that connects by means of a rod *c*, with a short lever *d*, connected to the rock-shaft B. By imparting a rotary motion to the wheel F, therefore an oscillating motion is imparted to the rockshaft B, and fan A, and a pleasant and agreeable current of air is created until the motion of the wheel is stopped, and if the case is placed on a table or desk or before a bed, the person sitting at such table or desk, or lying on the bed will receive the benefit of the fan without moving his or her hands. The wheel F, may also be used for the purpose of giving motion to the fly chaser G. In this case the arm C, with the fan A, is removed and a rod *e*, is inserted into a hole in the circumference of the wheel. Secured to the end of this arm by means of a pivot *f*, is a short link *g*, with a hole *h*, in its extreme end; and this hole forms the bearings for the center pin *i*, of the revolving fan *j*. This fan is constructed with two wings *k*, *k'*, placed obliquely in such a position that the action of the air on the fan as it is rotated with the arm C, and wheel F, gives to the same an independent rotary motion on the pin *i*. By this motion the winged fan assumes the appearance of a bird or living body, and serves to chase away the flies, mosquitoes, etc. with amazing effect.

It is obvious that both the fan and fly-chaser might be attached simultaneously to the same arbor, simply by continuing the same to such a height that the fly-chaser would revolve above the fan, and by attaching the connection rod *e*, to a crank in the arbor instead of the eccentric wrist pin *b*. Thus arranged the case E, may be placed on a desk and the fan will create a pleasant current of air toward the person occupying the desk while at the same time the fly-chaser may be made to revolve over the head of the said person to keep away the flies and mosquitoes.

The rod *e*, to which the fly chaser is attached is made to extend so that its length can be adjusted at pleasure, and the link *g*, which forms the fulcrum of the center pin of the fly-chaser is so arranged that it can be turned up and down, and that by its aid the fly-chaser can be adjusted higher or lower at pleasure. This arrangement is desirable if the fly-chaser is to be used on a table so that it can be set according to the height of the dishes, fruit baskets cans and

other articles from which it is desirable to chase away the flies. The form and construction of the fly-chaser as well as that of the fan may of course be changed and an ordinary pin wheel made of paper may be used instead of the winged fan *j*. A feather *l*, inserted into a socket in the rod *e*, serves to regulate the speed of the fly-chaser.

This device is very simple in its construction and its parts are so arranged that they do not get easily out of order. The case E, forms a perfect protection to the clock movement so that the same cannot be tampered with by inexperienced persons, and the whole device may be gotten up in a more or less ornamental style to suit the taste and convenience of purchasers.

What I claim as the invention of WILLIAM CARPENTER aforesaid, and desire to secure by Letters Patent, is:—

1. The arrangement of the rockshaft B, in combination with the fan A, connecting rod *e*, and revolving wheel F, constructed and operating in the manner and for the purpose shown and described.

2. The arrangement of the adjustable link *g*, and extension rod *e*, in combination with the revolving fan *j*, constructed and operating substantially as and for the purpose set forth.

SOPHIA CARPENTER,
Admx. of Wm. Carpenter, deceased.

Witnesses:
PETER BORUM,
JOHN SCOTT.