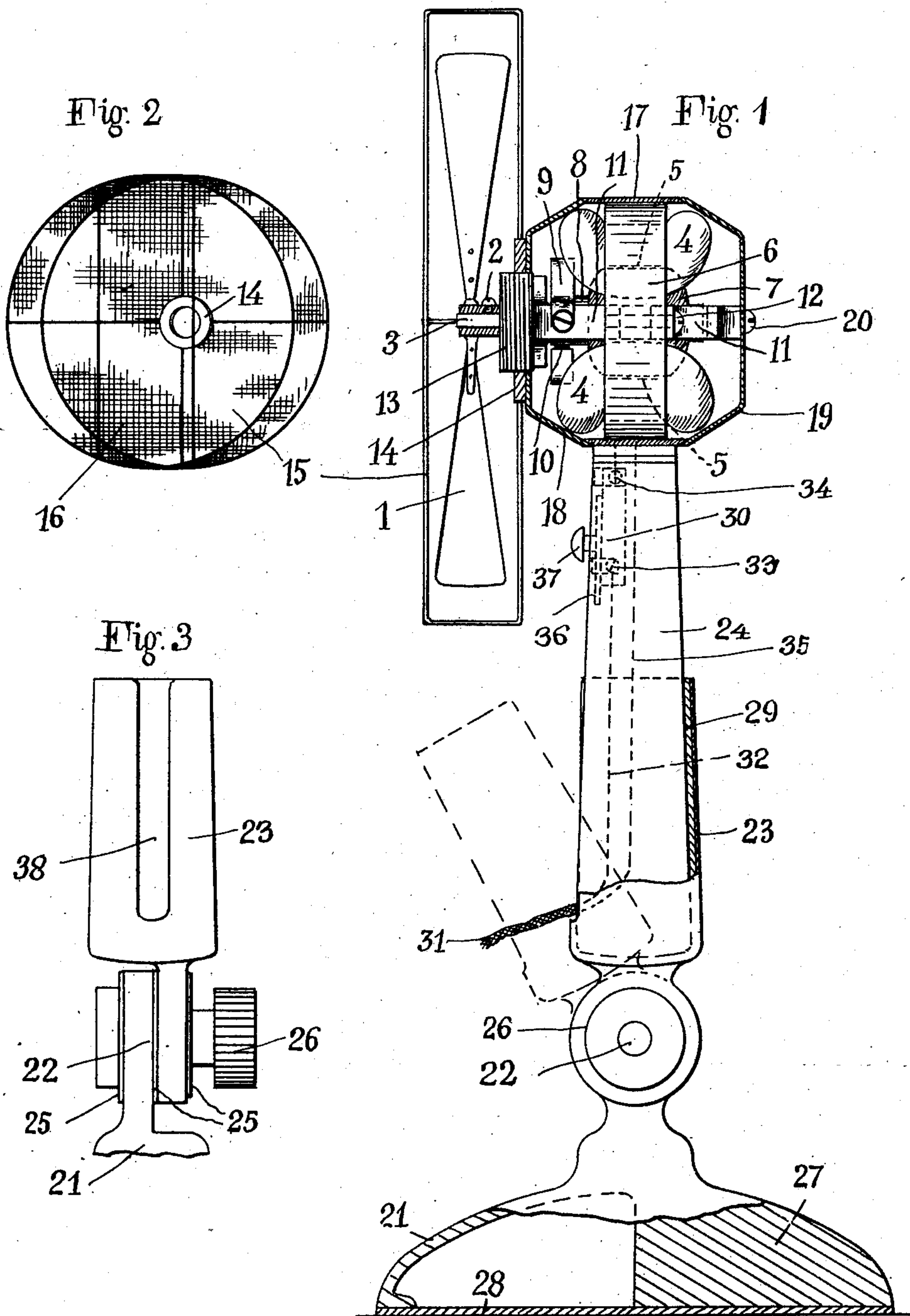


A. T. HOEVET.
ELECTRIC FAN.
APPLICATION FILED JAN. 11, 1908.

914,413.

Patented Mar. 9, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

ALFRED T. HOEVET, OF NEW YORK, N. Y.

ELECTRIC FAN.

No. 914,413.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed January 11, 1908. Serial No. 410,429.

To all whom it may concern:

Be it known that I, ALFRED T. HOEVET, a citizen of the United States of America, and a resident of the city, county, and State of New York, have invented certain new and useful Improvements in Electric Fans, of which the following is a specification.

This invention relates to electric fans and has particular reference to an electrically operated fan for use in offices and restaurants.

The special object of the invention is to provide a fan of compact design and neat of appearance and of but little weight, so that it may easily be moved about, and the particular new features of this invention reside in the novel and useful manner in which the fan is supported, whereby the current of cooling air may be directed in any desired direction and at any suitable angle. Another great advantage is this, that the support of the fan is so constructed that the fan itself and its motor may be held in the hand and the cooling air applied in any direction desired and while the person may recline in any convenient position.

To this end the invention comprises such features and elements of construction as will hereinafter appear in detail and which are illustrated in the accompanying sheet of drawing; but as changes may occur I claim all those which come within the spirit and scope of the claim.

In the said drawings Figure 1 is a view of a fan embodying my invention and partly in section. Fig. 2 is a detail view of the fan guard, and Fig. 3 is a detail view of the pivot in the supporting stand.

In the drawings the reference numeral 1 denotes the fan proper which is fastened by means of a set screw 2 on the armature shaft 3 of the motor, of which latter the field windings are indicated by 4 and are wound around the pole pieces 5, which are part of the ring 6 forming a frame for the support of the various elements contained in the motor.

7 denotes the armature and 8 the commutator, while 9 and 10 indicate the brushes, which are carried by a yoke 11 of suitable design and material and fastened to the ring 6 by screws as 12. The one end of said yoke terminates in the externally threaded head 13 which forms the one bearing for the armature shaft, while the opposite end of the yoke

forms the other bearing. Upon this head 13 is threaded the collar 14 which carries the fan guard 15. It will be noted that the guard is provided with a fine screen 16 behind and around the fan, to prevent injury.

The motor is incased in a nickel plated casing consisting of the central ring member 17, in which the frame 6 fits snugly, and the two end pieces 18 and 19, both of which lap over the edges of the ring 17 as shown. The member 18 is held in position by the fan guard and the member 19 by screws as 20.

I will now describe the support of the fan.

As will be seen from the drawing the fan is adapted to stand on a table or desk and to this end it is provided with the base 21, on which is pivoted at 22 a socket member 23 which is made springy and is adapted to receive the depending member or extension from the motor casing 24. In this manner the fan may be inclined at an angle as indicated in dotted lines and the pivot 22 is provided with frictional washers 25 of leather or other suitable material and the fan may be fixed in any position by tightening the nut 26. In order to prevent the fan from falling, when inclined, the base is weighted as indicated at 27, and it will be noted that this weighted portion is to the one side of the axis through the pivot 22.

A noise absorbing pad as 28 is provided and the socket member 23 is lined with a felt or other soft lining 29.

30 indicates a switch for starting and stopping the motor, and a cable 31 is provided ending in a plug as usual and not shown. The one main wire 32 of the cable leads to the one terminal of the switch 33, and from the other terminal 34 a wire leads on to the motor from which the other main wire 35 leads back to the cable. The sliding member 36 is operated by the button 37 for opening or closing the switch. The socket member is provided with a slot 38 through which the cable passes whereby the fan is always placed in the socket parallel to the axis of the pivot 22.

From the above it will be seen that I have provided a fan which may easily be moved about and which may be held in the hand or used in its support. The whole apparatus is of such a size that it may be handled with convenience.

What I claim is:

As a new article of manufacture a fan, an

electric motor for driving the same, a casing
surrounding said motor, a member extending
downwardly from said casing, a weighted
base, a socket member pivoted on the same
5 and adapted to receive the said depending
member and a switch in the latter for oper-
ating the said motor.

Signed at New York city this 20th day of
December 1907.

ALFRED T. HOEVET.

Witnesses:

E. VAN ZANDT,
IVAN KONIGSBERG.