F. P. McBERTY.

CEILING FAN.

APPLICATION FILED NOV. 20, 1907.

905,089. Patented Nov. 24, 1908.

Fig. 1.

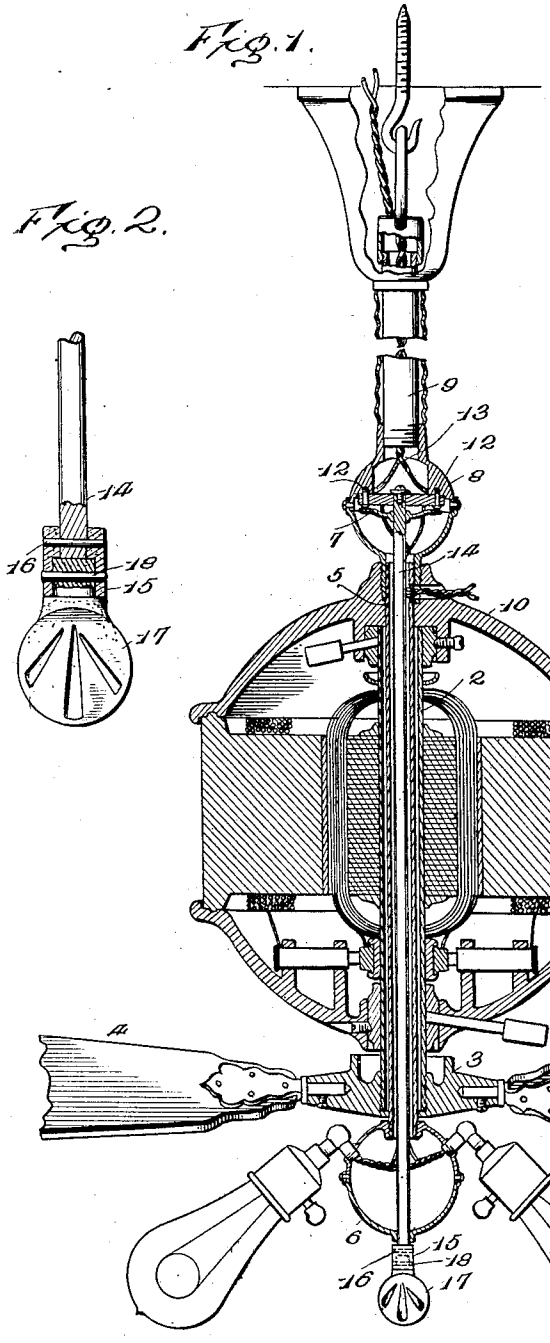
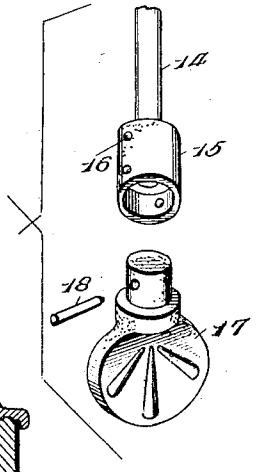


Fig. 2.

Fig. 3.



Inventor

Witnesses

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By

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UNITED STATES PATENT OFFICE.

FRED P. McBERTY, OF WARREN, OHIO, ASSIGNOR TO THE PEERLESS ELECTRIC COMPANY, OF WARREN, OHIO, A CORPORATION OF OHIO.

CEILING-FAN.

No. 905,089. Specification of Letters Patent. Patented Nov. 24, 1908.

Application filed November 20, 1907. Serial No. 403,025.

To all whom it may concern:

Be it known that I, FRED P. McBERTY, of Warren, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Ceiling-Fans; and I 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 appertains to make and use the same.

The object of this invention is to so locate the switch of an electrically-operated overhead or ceiling fan as to make it impossible or extremely difficult to effect the unauthorized closing of the circuit and actuation of the fan.

Another object is to avoid having the switch appear as a separate element from the fan and its motor.

The invention will be hereinafter fully set forth and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a vertical longitudinal sectional view of a ceiling fan equipped with my improvements, parts being shown in side elevation and other parts broken away. Fig. 2 is a sectional view of the key-end of the switch rod. Fig. 3 shows such end in perspective with the key or handle detached.

Referring to the drawings, 1 designates the motor in its entirety, all the parts of which may be of any suitable or preferred form of construction except as modified to carry out the purposes of my invention. The armature shaft 2 is made hollow, and to its lower end is secured the hub 3 of the fan blades 4. Within this armature shaft is located a tube 5 which extends beyond the fan hub 3 and supports at its lower end the tubular casing 6 carrying the ordinary electric light sockets.

7 designates the switch which is located within a globular casing 8 secured to the lower end of a supporting tube 9, while to its lower end is secured the upper hood 10 of the motor casing. The switch, as usual, comprises two laterally extended arms which are designed to have make-and-break contact with terminal posts 12 to which the service wires 13 are connected, such posts being mounted in an ordinary porcelain base.

The switch arms are mounted on the upper end of a rod 14 depending from the switch base and extended longitudinally through the armature shaft and inclosed supporting tube 5. This rod projects through and beyond the bottom casing 6, and at its lower end carries a sleeve 15, of suitable insulating material, held thereon by a pin 16. This sleeve 15 is designed to receive the reduced end of a handle key 17, which is secured by a pin 18 or other suitable means. When this key is attached to the switch rod the latter may be readily turned axially to open or close the switch, but by removing the key, as by withdrawing the retaining pin 18, it is practically impossible to effect the actuation of the switch without the use of special tools.

The advantages of my invention are thus made apparent. It will also be seen that by locating the switch above the fan and its motor, it is out of the way, and its casing instead of being unsightly tends to add to the attractiveness of the fan in its entirety. It will also be seen that the manipulation of the switch is readily effected, when the key is secured to this switch rod, such key being within easy and convenient reach. The key may be readily removed, and thus interference with the fan or switch rendered difficult, if not impossible.

I claim as my invention:

In combination, an electric motor having a tubular shaft, a casing for the motor, a fan located beneath such motor and designed to be actuated thereby, a switch for the motor located above the latter, a casing for such switch from which the motor casing depends, a depending switch rod extended longitudinally through and beyond the motor shaft, a sleeve of insulating material on the lower end of said rod, and a key for actuating the rod detachably secured to said sleeve.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

FRED P. McBERTY.

Witnesses:
F. H. FORD,
W. C. WARD.