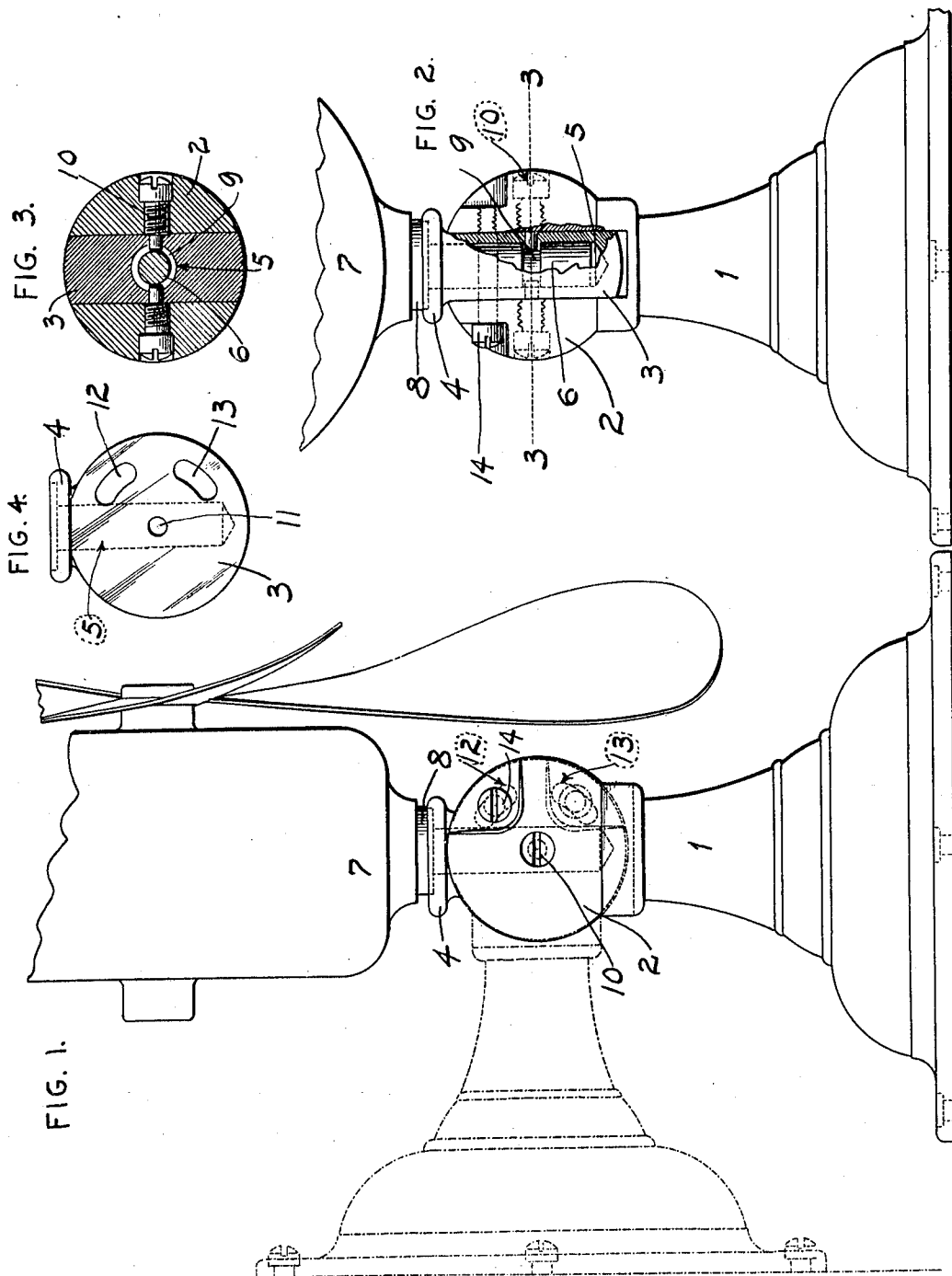


C. R. MESTON & H. I. FINCH.
COMBINATION DESK AND WALL FAN.
APPLICATION FILED APR. 23, 1909.

953,047.

Patented Mar. 29, 1910.



WITNESSES

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UNITED STATES PATENT OFFICE.

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EMERSON ELECTRIC MANUFACTURING COMPANY, OF ST. LOUIS, MISSOURI, A COR-
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COMBINATION DESK AND WALL FAN.

953,047.

Specification of Letters Patent.

Patented Mar. 29, 1910.

Application filed April 23, 1909. Serial No. 491,686.

To all whom it may concern:

Be it known that we, CHARLES R. MESTON and HERBERT I. FINCH, citizens of the United States, residing at St. Louis, Missouri, have invented a certain new and useful Improvement in Combination Desk and Wall Fans, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation of a combined desk and wall fan of our improved construction, with the upper part thereof broken away; Fig. 2 is an elevation of the base of our improved fan, a part thereof being shown in section; Fig. 3 is a horizontal section taken on the line 3—3 of Fig. 2; Fig. 4 is an elevation of a plate which forms a connection between the motor housing and the fan base.

Our invention relates generally to a combination desk and wall fan, our object being to provide a simple connection between the motor housing and the fan base whereby said base may be readily shifted from one position to another to permit the fan to be placed on a desk or table or upon the wall, said connection being of such construction that the motor housing and fan proper may be adjusted relative to the base.

To the above purposes, our invention consists in certain novel features of construction hereinafter more fully described and claimed.

Referring by numerals to the accompanying drawings, 1 designates the fan base which is of ordinary construction and provided at its upper end with a head 2.

3 indicates a plate which is adapted to cooperate with head 2, and formed on or fixed to the top of this plate is a bearing seat 4. Formed through the center of the plate 3 is an opening 5, which is occupied by a post 6 formed on, or fixed to, the motor housing 7. A shoulder 8 is formed at the upper end of the post, which shoulder rests upon the seat 4. Formed in the post 6 is an annular groove 9 in which engage the reduced ends of trunnion screws 10, which screws are seated in the sides of the head 2 and pass through suitable apertures 11 form-

ing the center of the plate 3. When the parts are assembled, the inner ends of the set screws 10 bear against the post 6 within the groove 9, and thus hold said post against rotation, and from being lifted from its seat in the opening 5. The reduced ends of the screws 10 form pivots or trunnions upon which the motor housing moves when it is adjusted. Formed through the plate 3 is a pair of short arcuate slots 12 and 13, and passing through suitably formed apertures in the sides of the head 2 is a screw 14 which passes through either one of the slots 12 and 13 corresponding to the relative positions of the motor housing and fan base.

When our improved fan is in use upon a desk or table, the screw 14 occupies the slot 12, and when said screw is tightened the plate 3 is clamped between the two parts of the head 2, and thus the motor housing is rigidly maintained in proper position upon the base. The housing 7 and the fan blades can be adjusted backward or forward, as desired, by loosening the screw 14, thus permitting the plate 3 to shift slightly between the two parts of the head 2, the degree of adjustment being regulated by the length of the slot 12, and during the movement of the plate in the head 2, said plate bears upon the reduced ends of the screws 10. When the fan is used upon a wall or the like, the screw 14 is removed from the head 2 and base 1 is swung into a position at right angles to the plane occupied by the motor housing 7, as shown by dotted lines in Fig. 1, moving about the trunnion screws 10 a center, and when the parts are thus arranged the screw 14 is resealed in the head 2 and occupies the slot 13.

It will be noted that in our improved device, a universal joint is formed between the base and the motor housing, which joint readily permits the base to be shifted from a vertical to a horizontal position, and also permits the motor housing to be rotated on the base so as to cause the fan blades to throw a current of air in any direction, and this universal joint is equipped with means whereby the housing is locked to the base after adjustment.

A fan of our improved construction is very simple and can readily be transformed from a desk to a wall fan, or vice versa, and the motor housing and fan blades can be

slightly adjusted backward or forward while the base is in either position.

It will be readily understood that minor changes in the construction, arrangement and combination of the various parts of our fan can be made and substituted for those herein shown and described without departing from the nature and principle of our invention.

10 We claim:

1. In a fan of the class described, a fan base, a plate adjustably positioned therein, a motor housing, a post carried thereby in which post is formed a groove, which post is seated in the plate, and fastening means seated in the base and extending through the sides of the plate into the groove in the post.

2. The herein described fan comprising a base, a plate removably and adjustably positioned in the base, means whereby said plate is locked to the base after adjustment, a motor housing, a grooved post carried thereby and seated in an aperture in the plate, and fastening devices seated in the base and extending through the sides of the plate into the groove in the post.

3. The combination with a fan base, the upper portion of which is bifurcated, of a plate removably and adjustably arranged in the bifurcated upper end of the base, there being a recess formed in said plate, a motor housing, a post on said motor housing, which post engages in the recess in the plate, there being a groove formed in said post, and fastening members seated in the bifurcated upper end of the fan base, which fastening members pass through the sides of the plate and engage in the groove in the post.

4. The herein described fan comprising a base, the upper end of which is bifurcated, a plate adjustably seated in the bifurcated upper end of the base, in which plate is formed a slot and a recess, a screw seated in the bifurcated upper end of the base, and passing through the slot in the plate for holding the same after adjustment, a motor housing, a pin carried thereby which pin is provided with a groove, and is seated in the recess in the plate, and fastening devices

seated in the bifurcated upper end of the base, and passing through the sides of the plate into the groove in the post.

5. The combination with a fan base, the upper end of which is bifurcated, and a motor housing carrying a grooved post, of a plate removably and adjustably seated in the bifurcated upper end of the fan base, which plate is provided with a recess which receives the post on the motor housing, and means seated in the upper portion of the fan base and engaging in the groove in the post for permitting the same to rotate in the plate and preventing its withdrawal therefrom.

6. The herein described fan comprising a base, a member removably and adjustably positioned in the upper end of the base, in which member is formed a recess, and there being apertures formed in the sides of said member which communicate with the recess, a motor housing, a grooved post thereon, which post is seated in the recess in the member, and means removably positioned in the fan base and extending through the apertures in the sides of the member, and in the groove in the post for normally holding said post in position in the member.

7. In a fan of the class described, a member adapted to form an adjustable connection between the fan base and the motor housing, which member comprises a plate in which is formed a recess adapted to receive a part of the motor housing, there being apertures formed in the sides of the plate communicating with the recess, which apertures receive fastening devices seated in the fan base and said plate being provided with a pair of slots adapted to receive a screw seated in the fan base for locking the plate after adjustment.

In testimony whereof we hereunto affix our signatures in the presence of two witnesses, this 19th day of April, 1909.

CHARLES R. MESTON.
HERBERT I. FINCH.

Witnesses:

F. R. CORNWALL,
LENORE CLARK.