

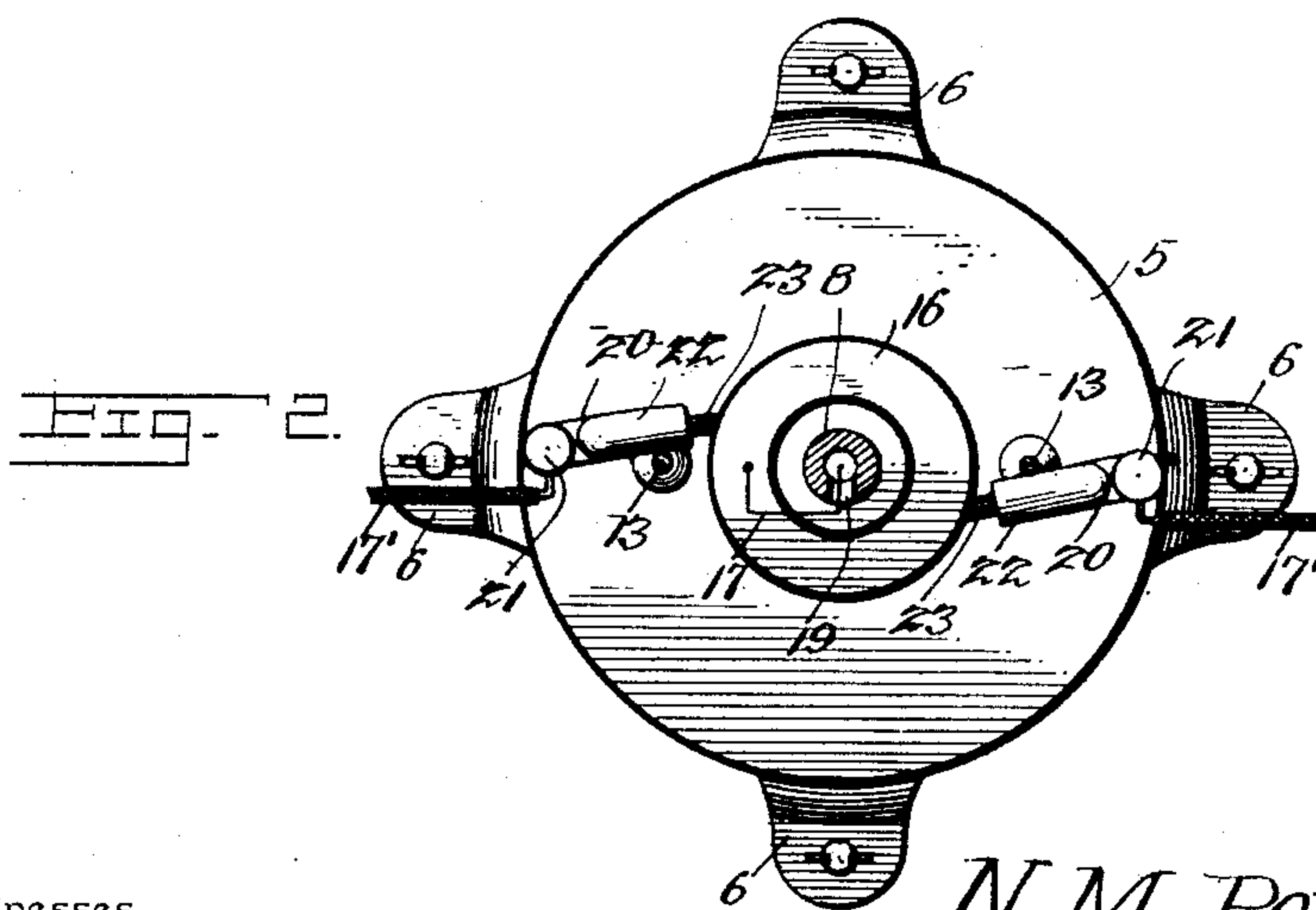
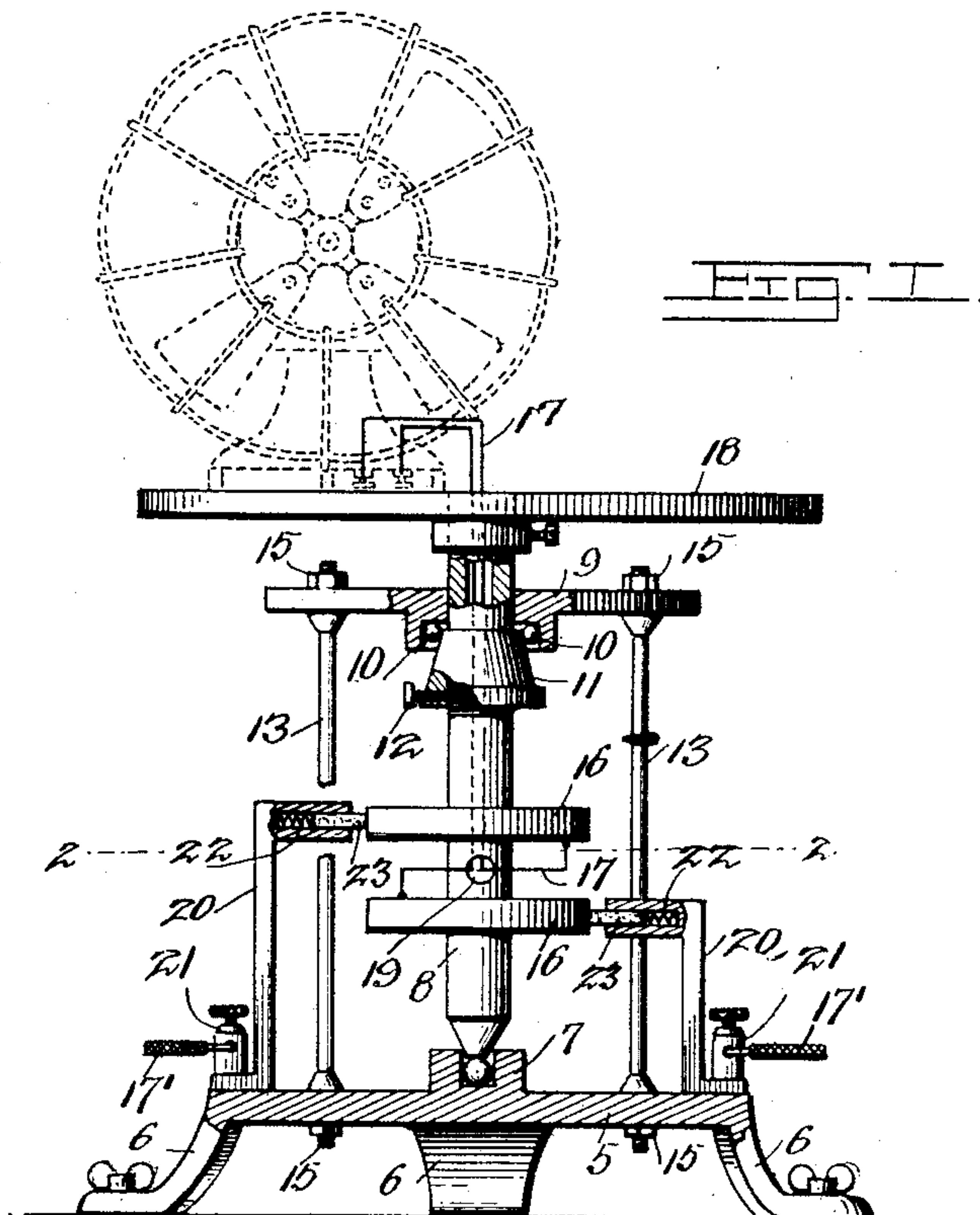
No. 696,191.

Patented Mar. 25, 1902.

N. M. POWELL.  
TURN-TABLE FOR MOTOR FANS.

(Application filed Aug. 27, 1901.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

NOAH MONROE POWELL, OF QUINCY, ILLINOIS, ASSIGNOR OF ONE-HALF TO  
WILLIAM ANDERSON SHUMATE, OF QUINCY, ILLINOIS.

## TURN-TABLE FOR MOTOR-FANS.

SPECIFICATION forming part of Letters Patent No. 696,191, dated March 25, 1902.

Application filed August 27, 1901. Serial No. 73,464. (No model.)

*To all whom it may concern:*

Be it known that I, NOAH MONROE POWELL, a citizen of the United States, residing at Quincy, in the county of Adams and State of Illinois, have invented a new and useful Turn-Table for Motor-Fans, of which the following is a specification.

My invention relates to certain improvements in devices for supporting electric fans, and relates particularly to the construction of an improved form of revolving table on which the fan is mounted, the fan in revolving causing the turning of the table, and thus effecting an even distribution of air to all portions of the room in which the fan is placed. A further object of the invention is to provide in such a device means for effecting the passage of the current to the fan without disturbing its continuity.

With these and other objects in view the invention consists in the novel construction and combination of parts hereinafter more fully described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is an elevation, partly in section, of a turn-table for electric fans constructed in accordance with my invention. Fig. 2 is a sectional plan view of the same on the line 2 2 of Fig. 1.

5 designates a suitable base having a number of supporting-legs 6 and provided at its center with a step-bearing 7 for the support of the lower end of a vertically-disposed shaft 8. The upper end of the shaft extends through and is supported in position by a yoke 9, having on its under side a recess for the reception of antifriction-balls 10. The opposite member of the ball-bearing is formed by a cone 11, adjustable on the shaft 8 and adapted to be secured in position by a set-screw 12.

The yoke 9 is held in place by vertical bars 13, having near their upper and lower ends shoulders for bearing against the upper surface of the base and the under side of the yoke-arms and the whole being firmly bound together by clamping-nuts 15, adapted to the threaded ends of said bars 13.

On the shaft 8 are mounted metallic contact-rings 16, insulated from the shaft and from each other, and from these contact-rings

extend conducting-wires 17 to the binding-posts of an electric fan carried by a table 18 at the upper end of the shaft 8. The shaft 8 is hollow for a portion of its length, and communicating with the interior of the shaft at a point between the two rings 16 is an opening 19, through which the conducting-wires extend, and thence up through the hollow shaft to the top of the table.

Secured to opposite sides of the base 5 are standards 20, having binding-posts 21 for the attachment of the current-conducting wires 17'. At the upper ends of the standards 20 are pockets 22 for the reception of carbon brushes 23, which are held in constant contact with the peripheries of the rings 16 by small compression-springs 23.

In the operation of the device the fan is placed on the table at a greater or less distance from the center thereof, and after the attachment of the current-conducting wires the fan is revolved as usual. Owing to the resistance of the air, the fan will tend to move backward and will cause the table to revolve with its shaft 8 and will continue to revolve so long as the fan revolves and is maintained in position at one side of the center of the table. If the fan is moved to the exact center of the table, the latter will remain in a stationary position as long as desired, or any suitable locking device may be employed to lock the table in a stationary position when desired.

The structure may be modified in a variety of ways and its proportions and size altered to suit various requirements of use without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described my invention, what I claim is—

1. A device of the class specified, comprising a fan-receiving table, a hollow vertical shaft carrying the same, and having a radially-arranged opening communicating with the interior of said shaft, contact-rings on said shaft on each side of said opening, conducting-wires extending therefrom to the surface of the table through said hollow shaft, spring-pressed contacts in engagement with said ring, supporting means for said contacts, and upper and lower bearings for said shaft, substantially as specified.



2. A device of the class specified, comprising a fan-receiving table, a vertically-disposed shaft carrying the same, a base having a step-bearing for the lower end of said shaft, 5 a yoke supported from the base, ball-bearing between said yoke and the shaft, and current-conductors leading from the table to the base.

3. A device of the class specified, comprising a base having a step-bearing, a yoke carried by the base, a shaft supported in the step-bearing and extending to said yoke, said shaft being hollow for a portion of its length and having a transversely-extending opening 15 near the lower end of the hollow portion, a fan-receiving table carried by the upper end of the shaft, contact-rings carried by said shaft, contact-brushes for conveying a current to the rings, and current-conducting 20 wires extending from said ring through the hollow shaft to the fan-receiving table.

4. In a device of the class specified, the

combination of the base 5 having a step-bearing 7, a shaft 8 supported by said step-bearing, a fan-receiving table 18 secured to the 25 upper end of the shaft, standards 13 carried by the base, a yoke 9 supported on said standards and embracing the shaft 8, antifriction-balls carried by said yoke, a bearing member 11 carried by and adjustable on the shaft 8, 30 contact-rings 16 carried by and insulated from the shaft, contact-supports 20 carried by the base and connected to current-conducting wires, and contact-brushes carried by said supports and adapted to make contact 35 with the rings 16, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

NOAH MONROE POWELL.

Witnesses:

CHARLIE BANGERT,  
A. J. PATTON.