

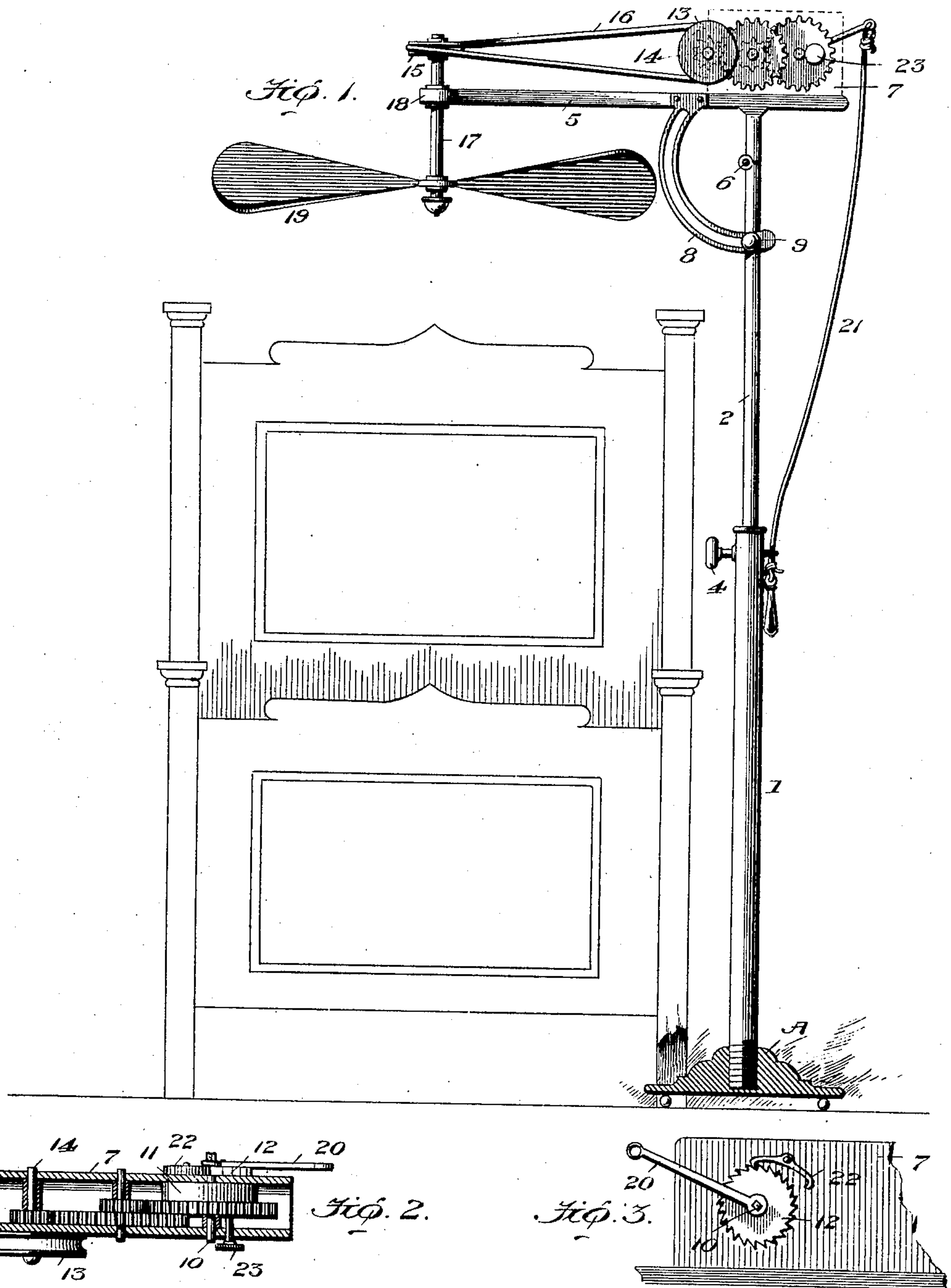
No. 829,622.

PATENTED AUG. 28, 1906.

W. H. C. BISHOP & G. L. SCHOPPERT.

PORTABLE FAN.

APPLICATION FILED JULY 24, 1905.



Witnesses  
*[Signature]*  
*[Signature]*

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William H. C. Bishop  
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By Henry S. Brewington  
Their Attorney



# UNITED STATES PATENT OFFICE.

WILLIAM H. C. BISHOP AND GEORGE L. SCHOPPERT, OF BALTIMORE,  
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## PORTABLE FAN.

No. 829,622.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed July 24, 1905. Serial No. 270,983.

*To all whom it may concern:*

Be it known that we, WILLIAM H. C. BISHOP and GEORGE L. SCHOPPERT, citizens of the United States, residing at Baltimore city, State of Maryland, have invented certain new and useful Improvements in Portable Fans, of which the following is a specification.

Our invention relates to an improvement in automatic fans; and the object of our invention is to provide a fan which can be moved to any part of the house and one consisting of few parts and which is easy to operate.

Our invention consists in certain other novel features of construction and combinations of parts which will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of the fan, showing the parts assembled. Fig. 2 is a top plan view of the mechanism for operating the fan, and Fig. 3 is a detail.

In Fig. 1 we have shown the fan extending over a bed. A represents the base of the fan, and 1 is a hollow standard which is screwed or otherwise secured in the base. A shaft 2 is received in the hollow standard and is capable of adjustment in the standard by means of the set-screw 4. An arm 5 is hinged to the shaft 2 at 6 to permit the arm to be adjusted to any position desired, and to permit of this adjustment I have secured a slotted arm 8 to the arm 5, and its adjustment is regulated by means of a set-screw 9 on the shaft 2. On one end of the arm is the operating mechanism which is secured in a frame 7. (Shown in dotted lines in Fig. 1.) This operating mechanism consists of a series of gears intermeshing with each other to drive the fan, and on the shaft 10, which carries the main driving-gear, is a spring 11. On the outside of the frame 7 and on the shaft 10 a ratchet-wheel 12 is mounted, and its movement is regulated by the pawl 22. Mounted on the shaft 14 is a wheel 13, which is connected with a similar wheel 15 by means of a belt 16. The wheel 15 is mounted on a shaft 17, supported in a bearing 18 at the outer end of the arm 5, and at the lower end of the shaft is secured the fan 19. Secured on the shaft 10 is a crank or lever 20 and at its outer end is connected with a rope or chain 21, which operates the ratchet-wheel 12.

When it is desired to operate the fan, the rope 21 is pulled, causing the lever 20 to revolve the ratchet-wheel 12 and at the same time winding the spring 11, and the tension of the spring will cause the gears to revolve and the fan to rotate, and when it is desired to regulate the speed of the fan a thumb-screw 23 is provided for stopping or regulating the speed of the fan by screwing it against or away from the main driving-gear.

It will be seen that we have provided a simple and inexpensive device which can be easily operated and one that can be moved to any position desired.

It is evident that slight changes might be made in the form and arrangement of the several parts described without departing from the spirit and scope of our invention, and hence we do not wish to limit ourselves to the exact construction herein set forth; but,

Having fully described our invention, what we do claim as our invention, and desire to secure by Letters Patent, is—

1. The combination of a portable automatic fan substantially as hereinbefore described comprising an extensible standard, of an arm hinged to the upper end thereof, of a fan journaled in the free end of the arm, of clockwork supported on the arm, of transmitting mechanism extending from the clockwork to the fan shaft or spindle, of means for winding the clockwork from a convenient point, of a thumb-screw for stopping or regulating the speed of the fan by screwing it against or away from one of the wheels of the clockwork.

2. The combination of a portable automatic fan substantially as hereinbefore described comprising an extensible standard and a hinged arm, of a fan journaled in the free end of the arm, of clockwork supported on the arm, of mechanism extending from the clockwork to the fan shaft or spindle, and means for winding and regulating the speed of the fan as herein set forth.

3. The combination of a portable automatic fan substantially as hereinbefore described comprising a base A provided with a hollow extensible standard 1 secured thereto, of a shaft 2 adjustably secured in the standard by means of a set-screw 4, of an arm 5 hinged to the shaft on the upper end thereof, of a fan journaled in the free end of

said arm, of clockwork supported on the arm,  
of transmitting mechanism extending from  
the clockwork to the fan shaft or spindle, of a  
slotted arm 8 secured on the arm 5 and ad-  
5 justably secured to the shaft 2 by the means  
of a set-screw 9, of a frame 7 secured on the  
arm 5 containing therein the clockwork or  
operating mechanism, of a shaft 10 carrying  
thereon a ratchet-wheel and pawl and means  
10 whereby the clockwork may be wound and

means for stopping and regulating the said  
clockwork for the purpose as herein set forth.

In testimony whereof we affix our signa-  
tures in presence of two witnesses.

WILLIAM H. C. BISHOP.  
GEORGE L. SCHOPPERT

Witnesses:

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