

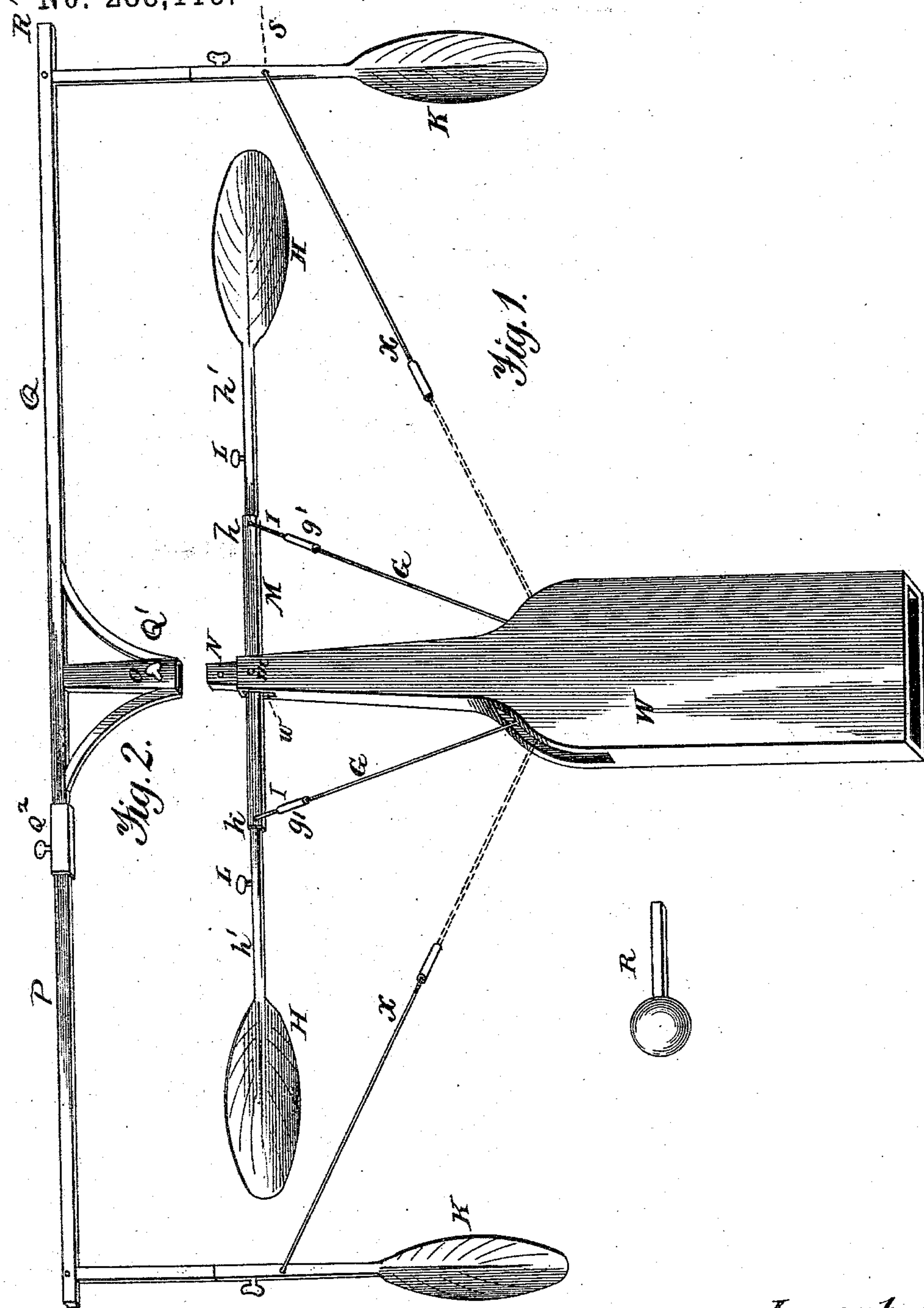
(No Model.)

2 Sheets—Sheet 1.

A. M. RICHARDSON.  
AUTOMATIC FAN.

Patented Nov. 6, 1883.

No. 288,119.



Witnesses:  
A. Ruppert.  
E. Gaddis

Inventor:  
A. M. Richardson  
by J. R. Nottingham  
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(No Model.)

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Fig. 3.

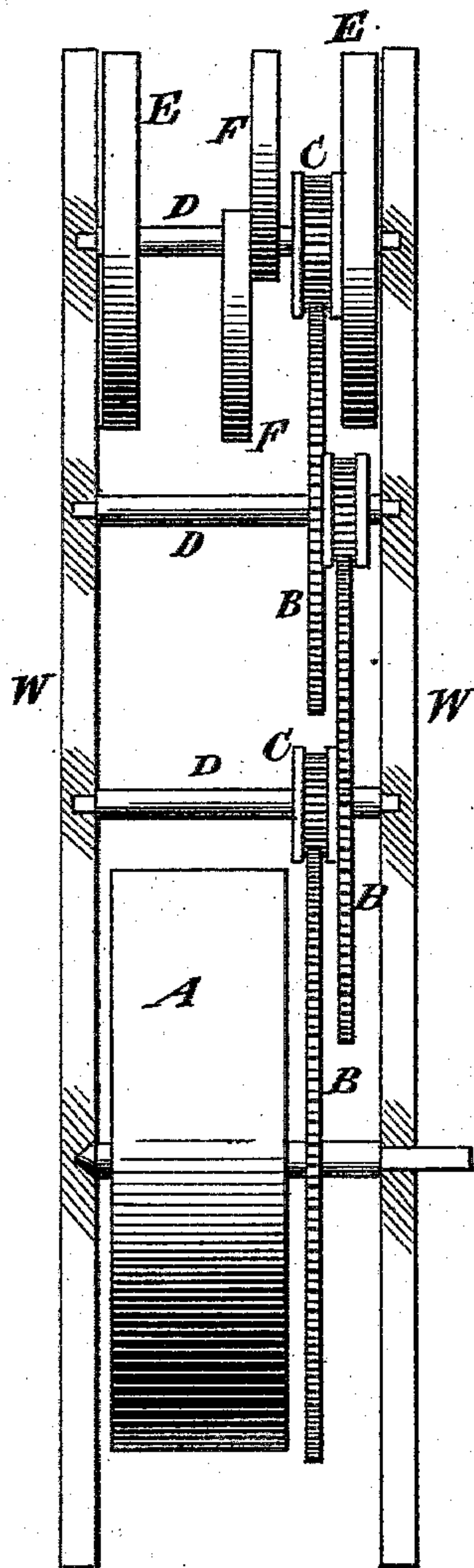
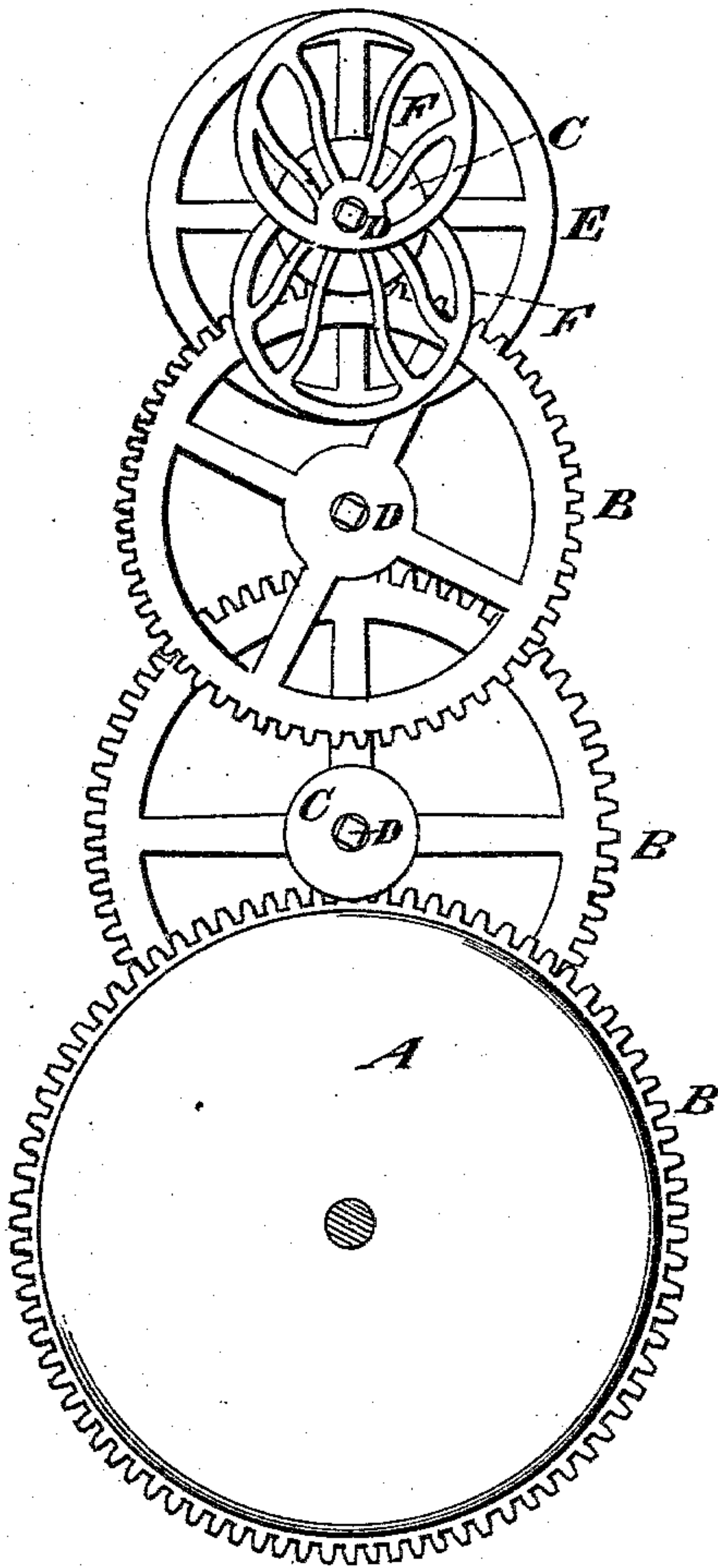


Fig. 4.



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# UNITED STATES PATENT OFFICE.

ALISTER MANLY RICHARDSON, OF CHARLESTON, SOUTH CAROLINA.

## AUTOMATIC FAN.

SPECIFICATION forming part of Letters Patent No. 288,119, dated November 6, 1883.

Application filed August 11, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, A. M. RICHARDSON, a citizen of the United States, residing at Charleston, in the county of Charleston and State of South Carolina, have invented certain new and useful Improvements in Automatic Fans; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to a fan or fans operated by a spring-motor to keep up a current of air; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth, and specifically pointed out in the claims.

The object of the invention is to provide a device adapted to create and continue a current of air in the vicinity of one or more persons, to keep them cool and prevent their annoyance by flies; one which shall be inexpensive in manufacture, simple in operation, and efficient in service; one which shall be operated by a mechanical power stored in a compact form, and one which will adapt itself to the convenience of persons sitting at a table, reclining on a lounge, or while they sleep in a bed.

The invention is fully illustrated in the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of the device; Fig. 2, an elevation of an attachment; Fig. 3, an edge view of a train of gear, and Fig. 4 a view of the same taken at right angles thereto.

Referring to the drawings, W designates the stationary case, in which are journaled the several shafts, D, of the train of gears B C, which connects the spring-drum A with the eccentrics F F on the shaft D, which carries the balance-wheels E.

M designates a tilting frame, which is pivoted at *m* in a slot, *w*, in the upper portion of the case W, and to each end of this frame is secured a tie or rod, G, each of which is provided with a strap, which loosely embraces one

of the eccentrics F. These eccentrics are arranged oppositely, so that when one is up the other is down, and by this arrangement the bar M is made to tilt, as is obvious.

The bar M is provided at each end with a socket, *h*, which is adapted to receive the shank *h'* of a fan, H, and a weight, R, is adapted to take the place of either fan and counterbalance the other when but one fan is used.

N designates a mortise formed on the top of the case W, and it is designed to receive the socketed shank O of a cross-bar, Q, having an extension-arm, P. Pendent from these arms Q and P are vertical fans K, which are pivoted above, as shown. The tie-rods G are provided with detachable connections *g'*, by which they may be disconnected from the bar M and connected to the shanks of the fans K by means of the ties X.

R' is a socket on the end of the rod Q.

The machine, as illustrated per Fig. 1, may be used to fan persons on opposite sides of a table; or one fan, H, may be detached and weight R attached to balance single fan. Rods G G may be unjointed at I I, cross-bar M removed, and the attachment shown in Fig. 2 adjusted to the standard shown in Fig. 1 at N by thumb-screw Q', the ties or rods G being attached to rods *x*, to lengthen them sufficiently to drive fans K. Section P may be detached and placed in socket R', placing both fans on the same side of standard, and connected by rod S, for the purpose of placing the machine at side of a bed and fanning two persons while lying.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with a supporting-case, a spring, a train of gears, and a double eccentric, a tilting bar having detachable fans, and ties or rods connecting said tilting bar with said eccentrics, as and for the purposes set forth.

2. In combination with the eccentrics F, bar M, and ties G, the detachable fans H and weight R, as and for the purposes set forth.

3. The socketed frame O, having pendent pivoted fans K, combined with the case W, having tenon N, the tie G, having detachable swivel



$g'$ , the ties X, and the eccentrics F, as and for the purpose set forth.

4. In combination with cross-bar Q, having socket R' and section P, the eccentrics F,  
5 ties G  $x$ , connections  $g'$ , and rod S, for connecting the fans K K, when said fans are arranged on one side of the standard W, as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ALISTER MANLY RICHARDSON.

Witnesses:

J. B. HOCKADAY,  
H. C. HAZYCK.