J. HENZ.

FAN.

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984,918. **Patented Feb. 21, 1911.**

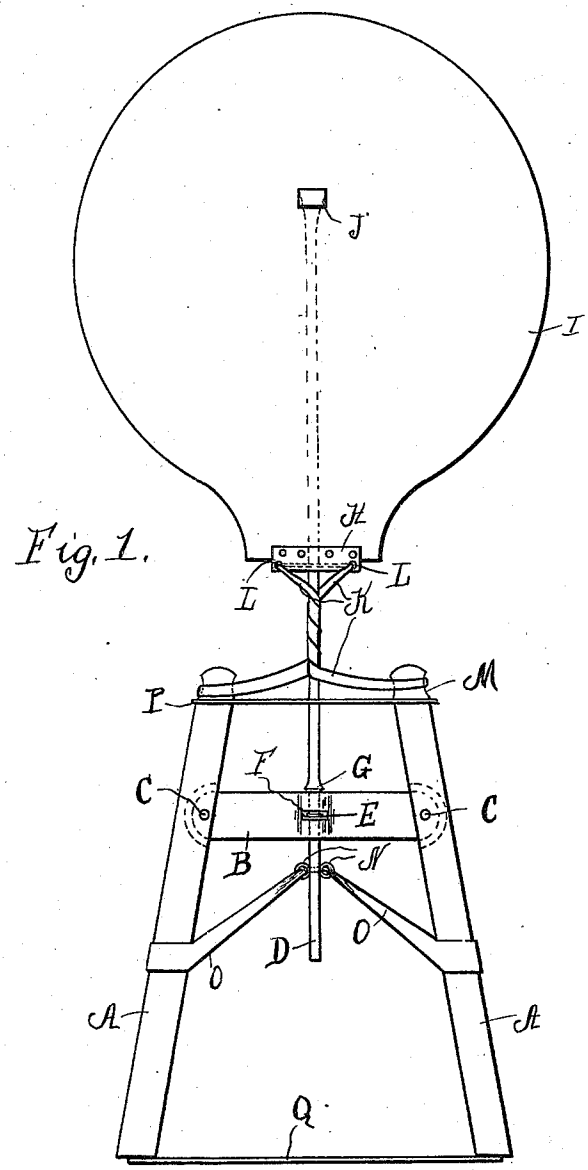

Fig. 1.

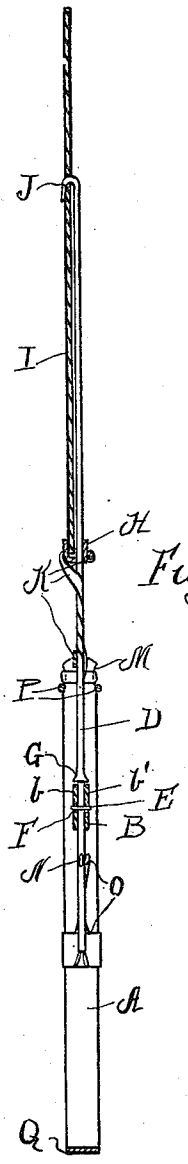

Fig. 2.

WITNESSES

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To all whom it may concern:

Be it known that I, JOSEPH HENZ, a citizen of Hungary, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improvement in Fans, of which the following is a specification.

My invention relates to a new and useful improvement in fans, and has for its object to provide an exceedingly simple and effective device of this character, in which the fan will be revolved by the oscillation of the handles, which are connected with the stem of the fan, by ribbons, said ribbons being wound about the stem.

Another object of the invention is to provide a fan of the character described with improved attaching means for fastening the handles and fan together.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction in detail, referring by letter to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a front elevation of a fan made in accordance with my improvement, and Fig. 2, a vertical sectional view thereof.

In carrying out my invention as here embodied, A represents a pair of handles, each pivoted to one end of the cross piece B, as at C. This cross piece is made of two parallel plates *b* and *b'*, the center thereof being spread apart for the reception of the stem D. On said stem is formed an annular rib E, which rests in the groove F in both members of the cross piece B, thus preventing the stem from moving vertically. In order to positively insure that the stem will not move downward, another annular rib G may be provided which will rest upon the upper edge of the cross piece B. On the stem is mounted the attaching plate H, the edges of which are bent upward and rest upon both sides of the fan I, thereby attaching its lower end to the stem. The upper end of the stem is passed through the fan I and bent upon itself, indicated by J.

K denotes a ribbon, the ends of which are passed through the perforations L in the attaching plate, then spirally wound about the stem of the fan and fastened to the upper ends of the handles A, which handles may be provided with grooves M to prevent said ribbons slipping from the handles.

In proximity to the lower end of the stem D are mounted the eyelets N, and through these are passed the ribbon O, the ends thereof being securely fastened to the handles A at a point opposite the end of the stem.

Around the upper ends of the handles A is placed a rubber band P which normally draws the upper ends of said handles together, thus spreading the lower ends, and in order that this movement will be limited I provide a ribbon Q, each end of which is fastened to one of the handles at its lower end, of course it will be understood that the different parts may be decorated for beautifying the same.

Having thus fully described my invention what I claim as new and useful, is—

1. In a fan, a fan blade, a stem, the upper end of which passes through the blade and is bent upon itself, an attaching plate mounted upon the stem and bent upon both sides of the lower edge of the fan blade, a cross piece composed of two parallel plates having slots therein, the stem being journaled between these plates, annular ribs formed upon the stem, one of said ribs resting above the cross piece and the other resting in the slots, handles pivoted to the ends of the cross piece, a rubber band attached to the upper ends of the handles for normally drawing them toward one another, and means secured to the handles and the stem about which they are adapted to be wound.

2. In a fan, a fan blade, a stem, the upper end of which passes through the blade and is bent upon itself, an attaching plate mounted upon the stem and bent upon both sides of the lower edge of the fan blade, a cross piece composed of two parallel plates having slots therein, the stem being journaled between these plates, annular ribs formed upon the stem, one of said ribs resting above the cross piece and the other resting in the slots, handles pivoted to the ends of the cross piece, a rubber band attached to the upper ends of the handles for normally drawing them toward one another, rings mounted upon the stem, a ribbon passing through said rings and secured to the handles, another ribbon passing through the at-

taching plates and the ends thereof secured to the handles, said ribbons adapted to be alternately wound about the stem for revolving the same, and means for limiting the movement of the handles.

3. In a fan, a fan blade, a stem, the upper end of which passes through the blade and is bent upon itself, an attaching plate mounted upon the stem and bent upon both sides of the lower edge of the fan blade, a cross piece composed of two parallel plates having slots therein, the stem being journaled between these plates, annular ribs formed upon the stem, one of said ribs resting above the cross piece and the other resting in the slots, handles pivoted to the ends of the cross piece, a rubber band attached to the upper ends of the handles for normally drawing them toward one another, rings mounted upon the stem, a ribbon passing through said rings and secured to the handles, another ribbon passing through the attaching plates and the ends thereof secured to the handles, said ribbons adapted to be alternately wound about the stem for revolving the same, and a ribbon the ends of which are attached to the lower ends of the handles for limiting the outward movement of the lower ends of the handles.

In testimony whereof, I have hereunto affixed my signature in the presence of two subscribing witnesses.

JOSEPH HENZ.

Witnesses:
HERMANN KAAZ,
CHARLES GRUBER, JR.