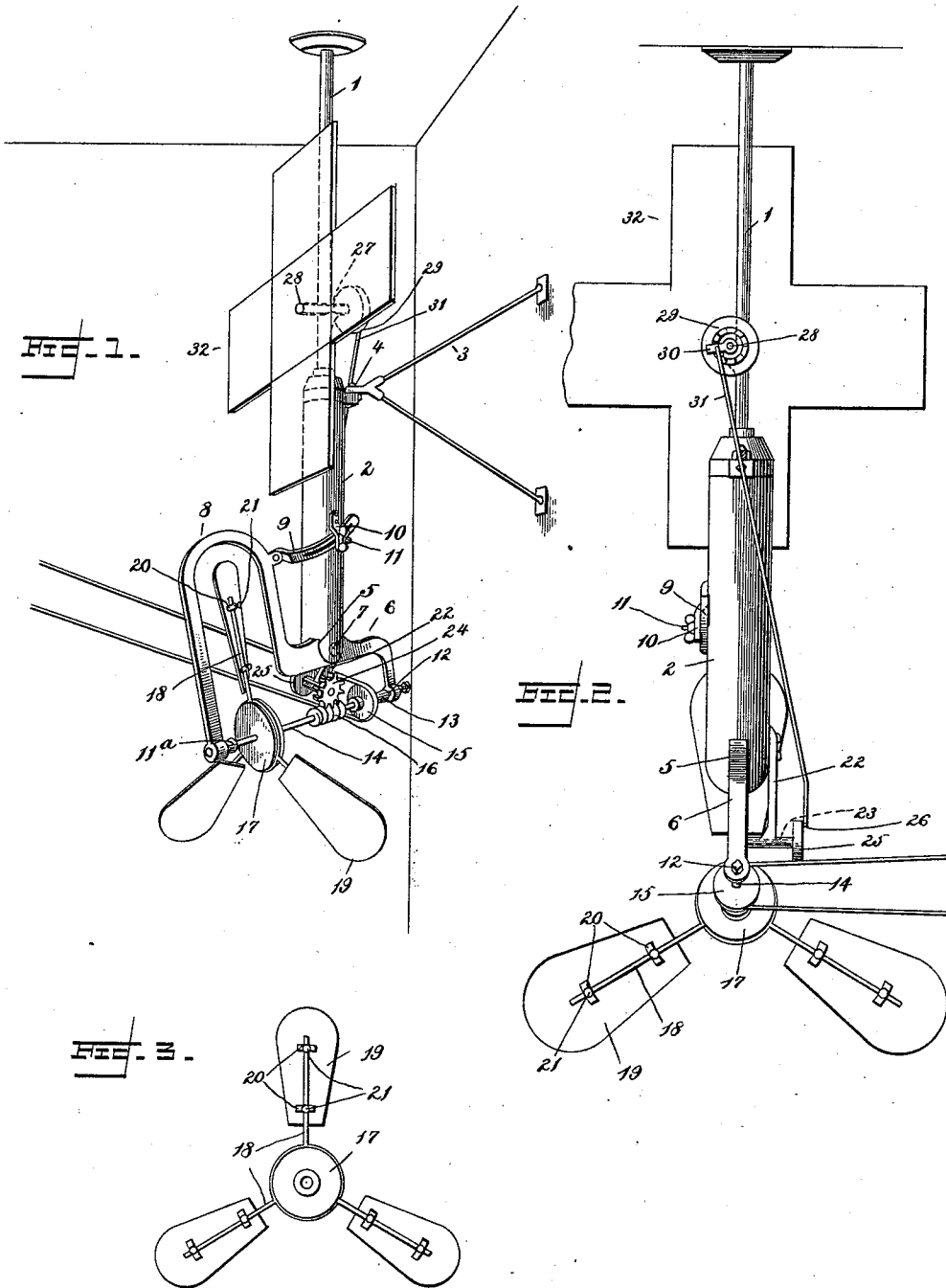


(No Model.)

T. LO CASTO.
ADVERTISING FAN.

No. 538,335.

Patented Apr. 30, 1895.



Witnesses:

Edw. S. Duvall, Jr.
W. J. Duvall.

Inventor:

T. Lo Casto.
By J. S. Duvall, Attorney

UNITED STATES PATENT OFFICE.

TONY LO CASTO, OF MARSHALL, TEXAS.

ADVERTISING-FAN.

SPECIFICATION forming part of Letters Patent No. 538,335, dated April 30, 1895.

Application filed April 14, 1894. Serial No. 507,589. (No model.)

To all whom it may concern:

Be it known that I, TONY LO CASTO, a citizen of the United States, residing at Marshall, in the county of Harrison and State of Texas, have invented certain new and useful Improvements in Advertising-Fans; and I do hereby 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.

My invention relates to improvements in advertising devices, and to that class known as mechanically rotated.

The objects of my invention are to produce an attractive sign, which by reason of its revolutions will receive notice from the general public and illustrate business cards or signs, and furthermore to operate the same by and in conjunction with a fan, such as is commonly used in public places.

Various other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawing,—Figure 1 is a perspective view of an advertising device embodying my invention. Fig. 2 is a rear elevation thereof. Fig. 3 is a detail of the fan.

Like numerals of reference indicate like parts in all the figures of the drawings.

In practicing my invention I secure to the ceiling a depending standard or hanger 1, to which is secured at the lower end thereof, a cylindrical casting 2. A V-shaped brace 3 is secured to the rear side of the casting as at 4, where it is convenient, and at its opposite or outer end has its terminals secured to the wall. The lower end of the casting is bifurcated as shown at 5, and arranged between the bifurcations is the fan-carrying frame 6. The fan carrying frame is of general U-shape, and is pivoted between the bifurcations by a bolt 7 so that it is free to oscillate. The outer side of the fan-carrying frame is bowed, or provided with an offset 8. A slotted bar 9 is pivoted to the offset 8 and passes loosely through a keeper 10 arranged upon the side of the casting 2, and a thumb-screw 11 passes through the slot of the bar 9 and the keeper, and therefore adjusts the fan-carrying frame at any desired angle.

The opposite terminals of the fan-carrying

frame are perforated, one of the same receiving a conical bearing plug 11^a, and the other being threaded to receive a screw 12 which carries a conical bearing-plug 13 at its inner end. Arranged in these bearing-plugs is the fan shaft 14. The fan shaft 14 has a pulley 15 designed to be belted with any desired form of motor, and is furthermore provided with a worm or thread 16.

Arranged upon the fan shaft is a hub 17 of the fan, and from this hub radiate the arms or spokes 18. Arranged upon each arm or spoke is a blade 19, the same being provided upon its rear side with eyes 20 which receive the spoke, and through which pass set-screws 21, by means of which the blades may be set at any angle desired and in a manner obvious.

A short arm 22 projects from the fan frame to a point above the worm, and arranged in this arm is a short cross-shaft 23. Upon one end of the shaft a worm-gear 24 is located, and on the opposite end a disk 25 which is provided with a wrist-pin 26. The worm-gear 24 it will be understood, meshes with the worm-screw of the fan-shaft.

A bearing 27 is produced at one side of the standard 1 above the casting 2, and in this bearing a horizontal shaft 28 is arranged for rotation. The rear or inner end of the shaft is provided with a ratchet-disk 29, with which a ratchet 30 is designed to mesh, and the end of this ratchet is by means of a pitman-rod 31 connected to the wrist-pin 26 of the disk 25. The outer end of the shaft 28 is designed to carry the revolving sign 32, and the same may be of any desired design and subdivided in any way desired for the reception of either one or a plurality of business signs or cards.

This completes the construction, and the operation of the device is as follows: The fan shaft receives its motion as before stated from any suitable motor by being belted through the medium of the pulley 15 therewith, and as the fan revolves it performs its usual function. The worm 16 on the shaft rotates the worm-gear 24 and the shaft 23, and this carries the disk 25 which is likewise rotated. The rotations of the disk 25 cause a reciprocation on the part of the pitman-rod 31, so that the pawl 30 is raised and lowered and each time engages one or more teeth of the ratchet disk 29, so that the latter is partially

rotated at each reciprocation of the said pitman-rod, and thus the various signs appear in a position to be read by the public.

From the foregoing description in connection with the accompanying drawings it will be seen that I have provided a very simple fan that is easily adjustable to give more or less wind, which may be easily operated, and which is conveniently connected with and designed to operate an attractive advertising device, so that the fan not only performs its usual function but also the additional function of advertising various businesses, and being located in public places will serve this useful function in an efficient manner.

I do not limit my invention to the precise details of construction herein shown and described, but hold that I may vary the same to any degree and extent within the knowledge of the skilled mechanic.

Having described my invention, what I claim is—

1. The combination with the support, of a U-shaped frame, a horizontal pivot connecting the same loosely at an intermediate point with the end of the support, means for adjusting the frame upon its pivot, a fan-carrying shaft journaled in the terminals of the frame, and means for rotating the shaft, substantially as specified.

2. The combination with a support, a fan-carrying frame of general U-shape pivoted between its ends to the end of the same, a shaft mounted in the ends of the frame, the fan carried by the shaft means for revolving the shaft, a slotted bar loosely connected to the frame and passing through a keeper on the support, and a binding bolt engaging the slot of the bar and the keeper, substantially as specified.

3. The combination with a support, of the frame 6, pivoted between its ends thereto and having the offset 4, the fan-carrying shaft arranged for rotation in the terminals of the frame, the fan carried by the shaft and extending into the offset and means for revolving the shaft and means for adjusting the frame 6, substantially as specified.

4. The combination with a supporting-frame having terminals, each having a perforation, one of which is threaded a screw arranged in the threaded terminal, the conical bearings arranged on the one end of the screw and the

opposite terminal, a fan-shaft arranged in the bearings, means for revolving the fan-shaft, and a fan arranged upon the shaft, substantially as specified.

5. The combination with a support, means for supporting the same, a horizontal shaft at the upper end of the support, a sign at one end arranged at an angle thereto a fan frame at the lower end of the support, a fan-shaft arranged in the frame, a fan carried by the shaft and means for revolving the shaft, of devices for transmitting motion from the fan-carrying shaft to the sign-carrying shaft, substantially as specified.

6. The combination with a support, means for supporting the same, a horizontal shaft at the upper end of the support, a sign at one end and arranged at an angle thereto a fan frame at the lower end of the support, a horizontal fan-shaft arranged in the frame, a fan carried by the shaft and means for revolving the shaft, and devices operated by the fan-carrying shaft and adapted to intermittently operate the sign-carrying shaft, substantially as specified.

7. The combination with a support and the frame 6 carried thereby, of the shaft 14 arranged in bearings in the terminals of the frame 6, the worm 16 arranged upon the shaft, the pulley 15 carried by the shaft, the bearing arm 22 depending from the frame 6 over the worm, the shaft 23 arranged in the bearing-arm, the worm-gear 24 on one end of the shaft 23, the disk 25 on the opposite end of the shaft 23, the superimposed bearing 27 on the support, the shaft 28 arranged in the bearing, adapted to carry a sign, the ratchet-disk 29 carried by said shaft, the loose pawl 30, and the pitman-rod 31 between the pawl and the disk 25, substantially as specified.

8. The combination with a depending support, a U-shaped frame pivotally and adjustably secured thereto between its ends and having its terminals provided with bearings, of a shaft arranged in the bearings, means for rotating the same, and a fan carried by the shaft, substantially as specified.

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

TONY LO CASTO.

Witnesses:

HENRY R. STEPHENS,
C. H. HACKWORTH.