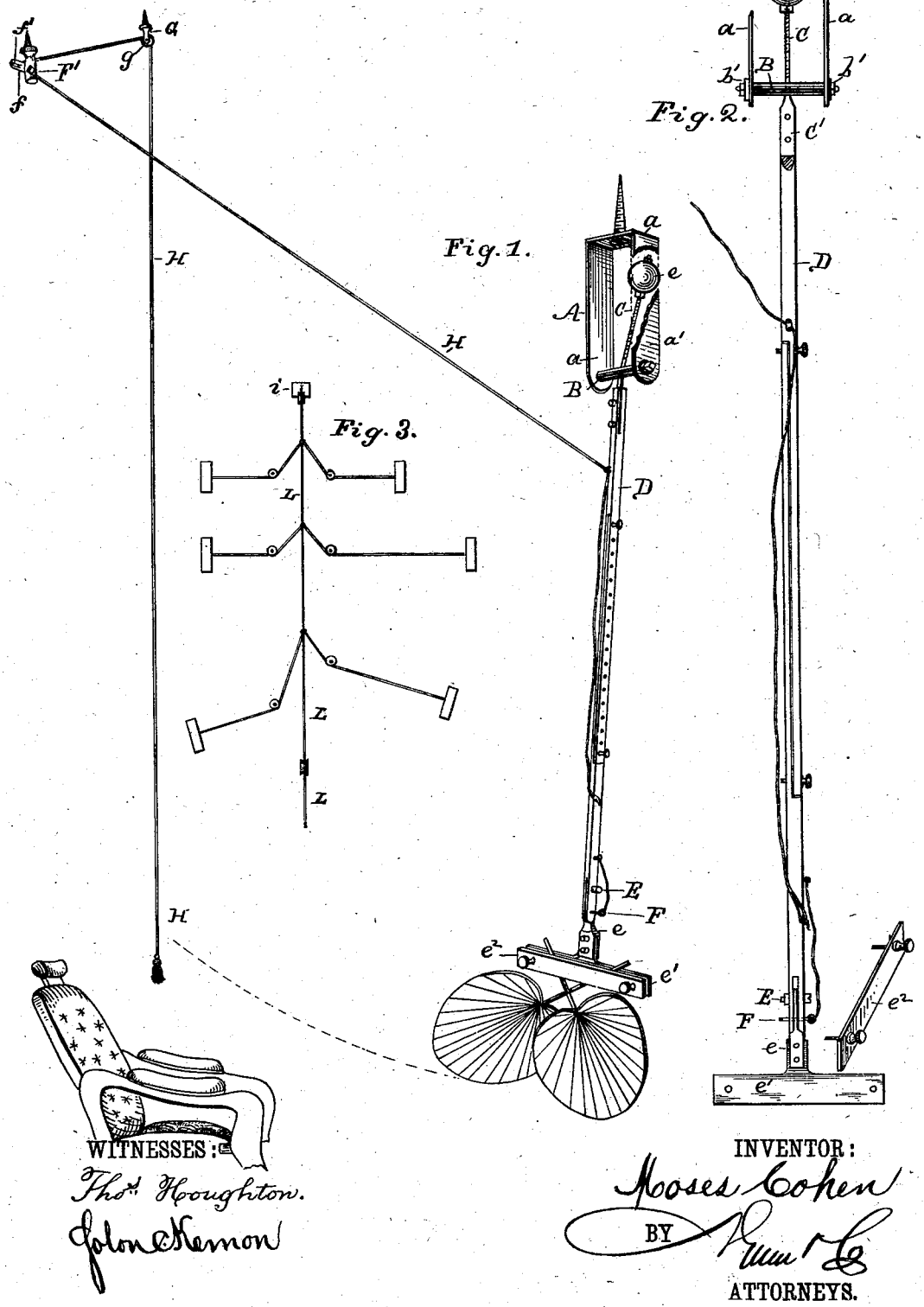
(No Model.)

M. COHEN.

FAN.

No. 259,820. Patented June 20, 1882.



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FAN.

SPECIFICATION forming part of Letters Patent No. 259,820, dated June 20, 1882.

Application filed March 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, MOSES COHEN, of Hallettsville, in the county of Lavaca and State of Texas, have invented a new and useful Improvement in Fans; and I do hereby declare that the following is a full, clear, and exact description of the same.

This invention relates to that class of mechanical fans which are specially adapted for attachment to the ceiling or frame-work for use in connection with a barber's chair; and it consists mainly, first, in the combination, with a swinging bar of metal or wood, or both, carrying the fans, of a balance-weight located at an angle to the line of the bar for the purpose of retarding its backward movement; and, second, in the combination, with a shaft and a hinge-connection uniting the fan-holder clamp to the shaft, of a removable pin by means of which the fans may be caused to move positively with the shaft or swing independently of it, as may be desired.

It further consists in certain details of construction, which, in connection with the foregoing features, will be fully described hereinafter.

In the drawings, Figure 1 is a perspective view of my improved fan and connection for operating a single fan. Fig. 2 is a front view of the swinging bar and fan-holder, and Fig. 3 is a plan of connecting several fans with one main operating-cord.

A represents a frame having a horizontal portion, *a*, adapted for attachment in any proper manner to the ceiling or frame-work, and the vertical side pieces, *a' a'*, in the ends of which are located proper bearings for the pivot-shaft B, as shown.

b' b' represent nuts screwed onto the threaded ends of the pivot-shafts, as shown.

C represents a metal rod extending through the center of the pivot-shaft B, the upper end of which is threaded to receive the ball or weight *e*, as shown. By means of the proper nuts or thumb-screws this ball is adjusted vertically upon the rod for the purpose of increasing or decreasing its effects, as may be desired. This rod, it will be observed, is so bent as to form an angle with the bar D, this construction being employed for the purpose of retarding the backward movement of the fan, as will be described hereinafter.

C' represents a flattened portion upon the lower end of the rod C, by which construction it is adapted for convenient attachment to the upper end of bar D by proper nuts and bolts, as shown. This bar D, it will be observed, is made in two parts, a portion of each being cut away at the center to form a splice-joint, which is capable, by means of proper nuts and bolts or thumb-screws, of being shortened or lengthened to accommodate either a high or low ceiling.

E represents a pivot-bolt located near the lower end of the bar D, and *c* an arm of the fan-holder clamp, which is held by the pivot-bolt in such manner as to swing freely thereon when not positively held.

F represents a pin secured to the bar D by a cord or other proper fastening device, which is adapted, when in place, to extend through proper openings in the bar D and arm *c*, and lock the arm *c* to the bar D, so that it moves positively with it.

e' represents a plate secured to the arm *c* at right angles thereto, and e^2 a loose plate attached to the plate *e'* by set-screws, which plates form a clamp for holding two or more palm-leaf fans, as shown.

F' represents a stud secured to the ceiling, and *f* a bolt held by the stud, which has a pulley, *f'*, as shown. By means of the construction described the pulley may be adjusted to suit different lines of direction.

G also represents a stud secured to the ceiling, which is provided with a pulley, *g*, as shown.

H represents a cord secured at one end to the bar D at any proper point, which is carried about the pulleys *f' g*, down to a point which is conveniently near the left hand of a person sitting in the barber's chair.

The operation is substantially as follows: The fan is attached to the ceiling or frame-work at a point not directly over the chair, but at some distance forward of the same, as shown. By pulling the cord H the bar D, with its attached fans, will be drawn back rapidly over the chair, and in consequence of this action a breeze will be blown directly into the face of the occupant of the chair. The cord being relaxed, the return movement occurs, this being less rapid than the forward movement, because the weight *e* is so located

relatively to the bar D as to resist the backward movement, the weight, in fact, being raised by this movement against the action of gravitation. By means of this weight the rearward movement is so retarded that no injury will result to the barber's mirror, even if the actuating-cord should accidentally break. By means of this weight, also, a much more uniform movement results than would otherwise be obtained.

The fans may be caused to swing rigidly with the bar D by having the pin F in its place, or independently of the bar by simply removing this pin.

I have described an arrangement of cord and pulleys which is adapted for use in connection with a single fan; but, if desired, a number of fans may be actuated from a common source of power. In such cases a main cord, I, having a weight, *i*, at one end, is carried over proper pulleys to a convenient point for the application of the power, and each individual fan is connected to the main cord by a branch cord which is given the proper direction by an individual pulley, as shown.

In a series of fans the cord H, secured at a proper point to the bar D, is continued from the proper point (so called) through one or more ring-screws down the bar D to a pin or hook in said bar, where it is attached by a loop or otherwise, and is thereby connected or disconnected with the other fans in motion without the necessity of stopping the same.

The construction described is especially adapted for use in connection with a barber's chair; but it may be employed in any place where it is desired to obtain a cooling breeze, such as dining-tables, hospitals, sick-rooms, &c.

The construction described is simple and yet very effective for the purpose designed.

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

1. The combination, with the frame A, adapted to be secured to a ceiling or frame-work, and provided with the pivot-bolt B, of the fan-bar D and rod C, provided with an adjustable weight, *e*, at its upper end, and passing through the pivot-bolt and secured to the upper end of the fan-bar at an angle thereto, substantially as described, and for the purpose set forth.

2. The combination, with the bar D, slotted at its lower end, arm *c*, pivoted in said slot by the bolt E, plate e', secured to said arm, and plate e^2, provided with set-screws, of the removable pin F, adapted to be inserted in holes in the lower end of the fan-bar, substantially as described, and for the purpose set forth.

3. The combination, with the frame A, provided with the pivot-bolt B, rod C, provided with the adjustable weight *e*, passing through the pivot-bolt and secured to the upper end of the fan-bar at an angle thereto, adjustable fan-bar D, arm *c*, clamp e' e^2, and cord H, substantially as described.

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