(No Model.)

J. HUGO.

COMBINED TABLE FAN AND CASTER SUPPORTER.

No. 281,513. Patented July 17, 1883.

Fig. 1.

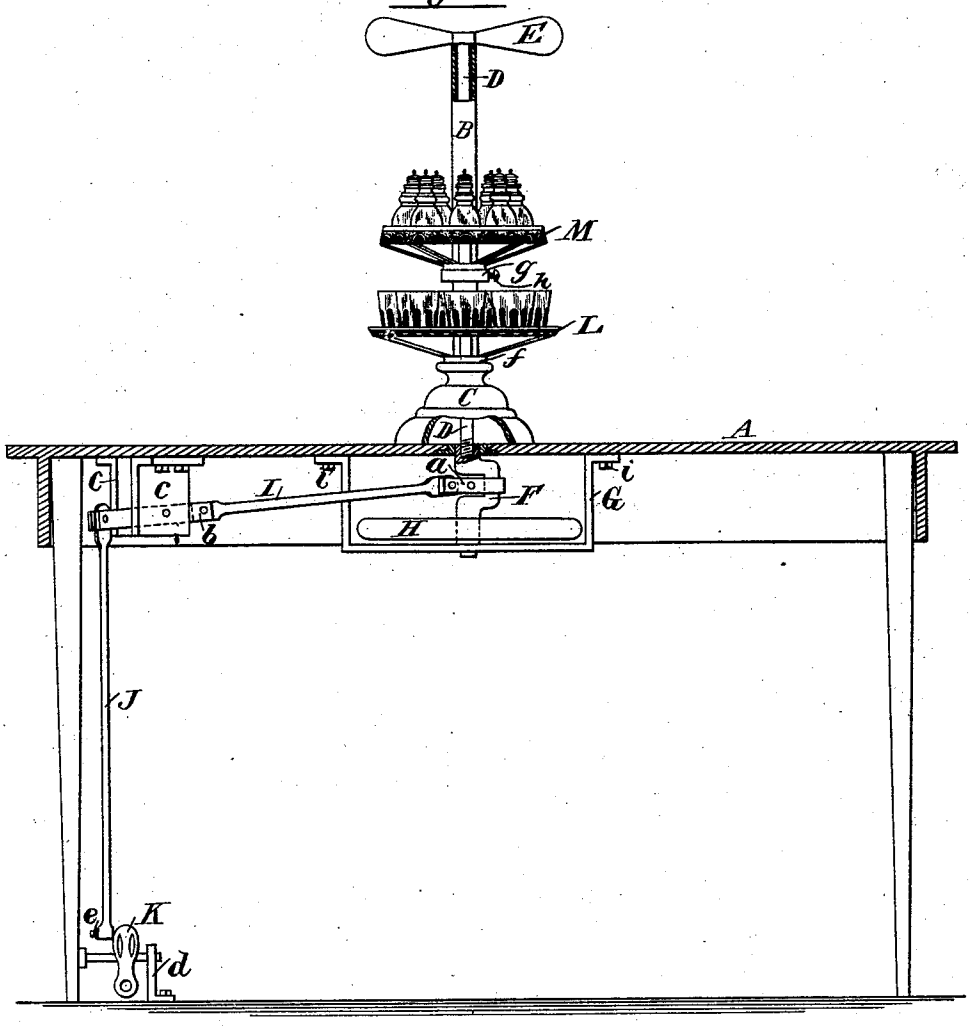
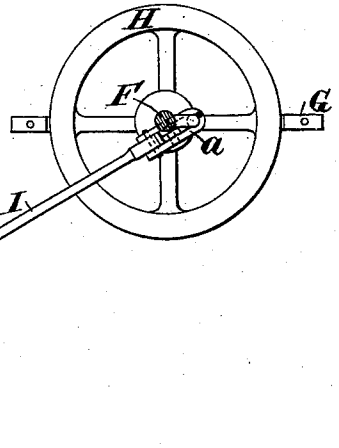


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOSEPH HUGO, OF NEW YORK, N. Y.

COMBINED TABLE-FAN AND CASTER-SUPPORTER.

SPECIFICATION forming part of Letters Patent No. 281,513, dated July 17, 1883.

Application filed March 14, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH HUGO, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Combined Table-Fans and Caster-Supporters, of which the following is a full, clear, and exact description.

The object of this invention is to provide attachments for dining-tables, adapted to operate one or more fans or paddles to produce a circulation of air in the dining-room, and adapted also to serve as supports for casters, tumbler-holders, or like devices.

My invention consists in the combination of a vertical rod carrying a paddle or fan at its upper end, a stationary hollow stem or upright, through which said rod extends, set on the table and supported vertically by the rod, a crank set beneath the table and centrally fixed to the lower end of said rod and adapted to be rotated by suitable mechanism actuated by foot or other power, whereby motion will be imparted to the paddle or fan to produce a circulation of air; also, in the combination, with the above, of a fly-wheel fixed to said crank, whereby when motion is imparted to said crank the motion is continued by the momentum of the fly-wheel, and the rotation of the paddle or fan is continued for a considerable length of time after the driving-power is taken off.

In the accompanying drawings, in which similar letters of reference designate like parts in both figures, Figure 1 is a side elevation, partly in section, of a table provided with my attachments. Fig. 2 is a detached plan view of the fly-wheel and connections.

The letter A designates a table, which may be of the ordinary or usual construction.

B designates a hollow stem or upright, terminating in an enlarged hollow base or pedestal, C, which rests on or may be suitably secured to the table A. Within this stem B is inserted a vertical rod, D, adapted to rotate freely independently of said stem, and carrying at its upper end a fan or paddle, E, said fan or paddle being provided with a central screw-threaded opening, and attached by being screwed onto said rod. The lower end of the rod D is inserted through an opening in the table and centrally fixed to one end of a crank, F, which is beneath the table. The other end of the crank F is journaled in a suitable frame or housing, G, which is bolted to the under side of the table, as shown at *i i*, Fig. 1.

H designates a fly-wheel fixed to the lower end of the crank F, and adapted to revolve within the frame or housing G.

a designates a rock-arm, one end of which is geared to the crank F, and the other end is pivoted to a connecting-rod, I.

b designates an oscillating lever pivoted in a frame, *c c*. This lever *b* is slotted at each end, and the connecting-rod I is pivoted to one end of said lever, and a connecting-rod, J, is pivoted to the other end. The frame *c c* is secured by bolts or in other suitable manner to the under side of the table A.

K designates a treadle pivoted in a frame, *d*, and connected to the rod J by a cranked arm, *e*.

The operation is as follows: The treadle K being actuated by pressure, the rod J is caused to rise and fall, thereby causing the rotation of the crank F, and imparting motion to the fly-wheel H and rod D, and driving the fan or paddle E by means of the oscillating lever *b*, connecting-rod I, and rock-arm *a*. It will be seen that after the fly-wheel has been set in motion its momentum will cause the rotation of the rod D and its fan or paddle for some time after the pressure has been taken off the treadle, and by this means a person sitting at the table may, by occasionally operating the treadle, keep the paddle or fan continually in motion, and thereby secure a constant circulation of air.

It is obvious that steam or other motive power may be easily connected and used instead of foot-power, and when this is done a number of such paddles or fans arranged at different parts of the room or rooms may be operated at the same time.

It is also obvious that more than one paddle or fan might be connected to the rod D by extending said rod sufficiently above the stem B to permit the free movement of the desired number of paddles or fans.

L designates a tumbler-holder secured to the stem B by a collar, *f*, and M designates a caster, also secured to the stem B, and by a col-

lar, *g*. Both the tumbler-holder L and caster M are adapted to slide on the stem B, and the collar *g* of the caster M is provided with a set-screw, *h*, whereby said caster may be held on the stem at any desired position above the tumbler-holder. By this arrangement I am enabled to apply my attachments for driving paddles or fans to obtain a circulation of air to any ordinary table without using any more space than is usually required for the caster or tumbler-holder, and at the same time these attachments may be made to improve the appearance of the table—as, for instance, by making an ornamental base or pedestal and by nickel-plating the stem or making it of polished brass.

My attachments may also be applied to counters, bars, and street-stands, as well as to dining-tables

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of a vertical rod, D, carrying a paddle or fan, E, centrally fixed to its upper end, a hollow stationary stem or upright, B, through which said rod extends, terminating in an enlarged hollow base or pedestal, C, supported on a table, counter, or like contrivance, and a crank, F, having one end centrally fixed to the lower end of said rod, and the other end journaled in a housing, G, and adapted to be rotated by suitable mechanism, whereby motion is imparted to the paddle or fan to produce a circulation of air, substantially as herein shown and described, for the purpose set forth.

2. The combination, with a vertical rod carrying one or more paddles or fans, a stationary hollow stem or upright, through which said rod extends, supported on a table, counter, or like contrivance, and a crank centrally fixed to the lower end of said rod and adapted to be rotated by suitable mechanism to impart motion to the paddle or fan, of a fly-wheel fixed to said crank, whereby when motion is imparted to said crank the rotation of the paddle or fan is continued by the momentum of the fly-wheel, substantially as herein shown and described, for the purposes set forth.

3. The combination, with a vertical rod carrying one or more paddles or fans, a stationary hollow stem or upright, through which said rod extends, supported on a table, counter, or like contrivance, a crank centrally fixed to the lower end of said rod, and a fly-wheel fixed to said crank, of the rock-arm *a*, connecting-rods I J, oscillating lever *c*, cranked arm *e*, and treadle K, substantially as herein shown and described, for the purposes set forth.

4. The combination, with the stem B, supported on the table A in the manner described, of the caster M, having a collar, *g*, and set-screw, *h*, and the tumbler-holder L, having a collar, *f*, substantially as herein shown and specified.

In testimony whereof I have hereunto set my hand this 9th day of March, A. D. 1883.

JOSEPH HUGO.

Witnesses:

ARTHUR C. WEBB,

GEORGE VAN GELDER.