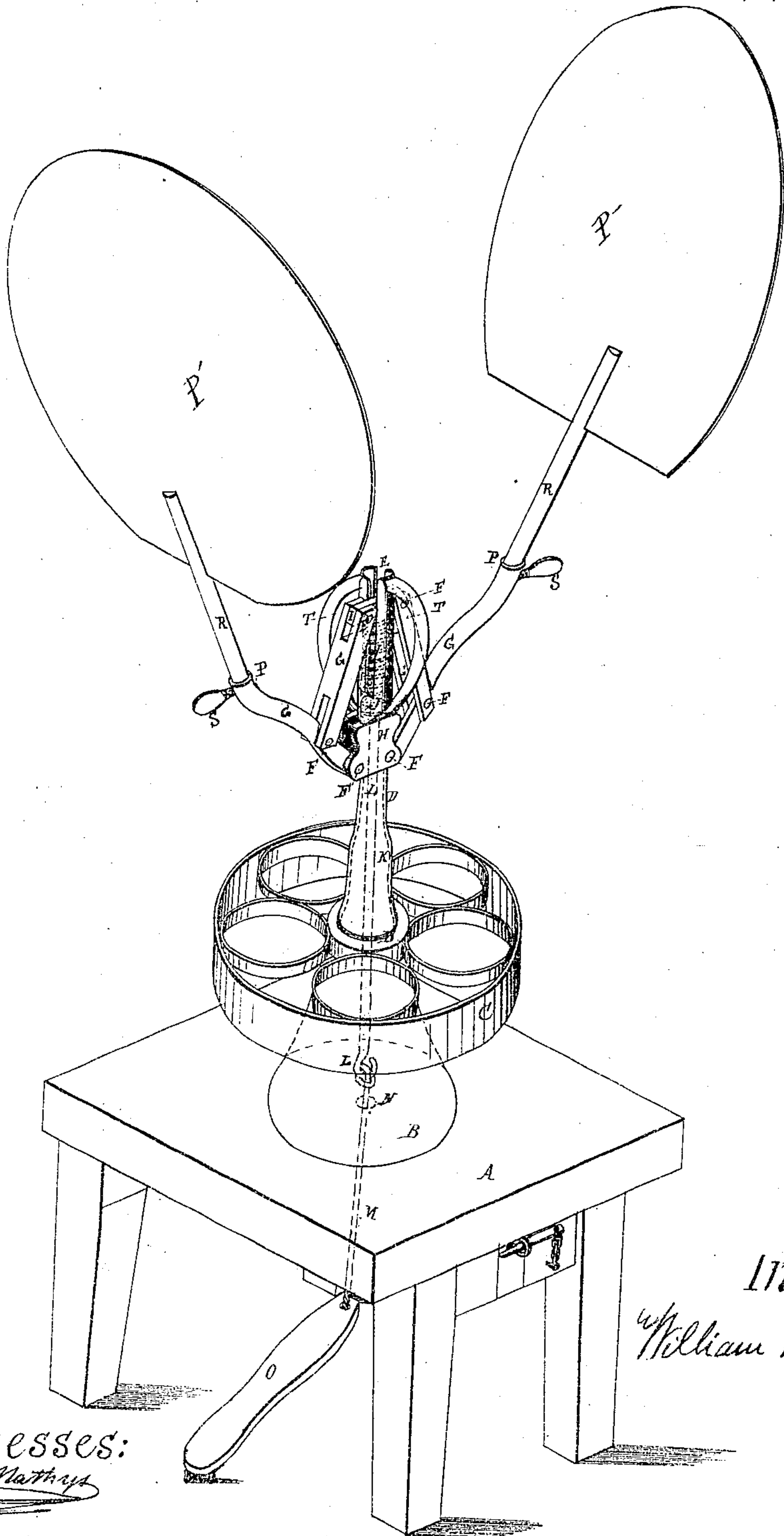


W. M. Smith,

Automatic Fan.

No. 99,965.

Patented Feb. 15, 1870.



Witnesses:

J. Mathias

L. Ballouf

INVENTOR:

William M. Smith

United States Patent Office.

WILLIAM M. SMITH, OF AUGUSTA, GEORGIA.

Letters Patent No. 99,965, dated February 15, 1870; antedated February 5, 1870.

IMPROVEMENT IN TABLE CASTER.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, WILLIAM M. SMITH, of the city of Augusta, in the county of Richmond, and State of Georgia, have invented certain new and useful Improvements in the Construction of Table Casters, adapted to driving flies from the dining-table during meal hours; and I do hereby declare that the following is a full, clear, and accurate description of the same, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 represents, in perspective, a dining table with a caster in the center of the same, to which my improvements have been applied.

Similar letters of reference indicate like parts in all the drawings.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same, with reference to the drawings.

A represents a table, supporting in the center of the same an ordinary caster.

B represents the base of the caster.

C, swivel-wheel, in which is placed the bottles containing the condiments for table use.

D is the stem or handle of the caster.

E is a slot in the top end of the same.

F F F F represent the pins or axis on which vibrate the arms.

G G G G, levers forming a toggle-joint, which unites at its lower end with the projection on the stem or handle of the caster represented by H, and at its upper end with the piece represented by I, as seen resting upon the top of the spiral spring J, which spring has a base within the hollow slotted stem D on the top of the projection H.

From the base of said spring, down through the center of stem D, is a small hole indicated by the dotted lines K.

In the center of the piece I is a hole near an eighth of an inch in diameter, in which is rigidly riveted a suitable wire extending its length from the piece I through the center of spring J and hole K to the ring L, which ring is formed of the lower end of said wire.

To the ring L is tied a small cord, represented by M, and passes from said ring through a small hole made in the center or other part of the table, as may be desired, for the use of this device, represented by N.

The lower end of cord M is tied in a ring fastened in the elevated end of a piece of plank made in the shape of a shoe-sole, having two projecting springs or sharpened nails in the heel of the same, and resting upon the floor represented by O.

The two lower arms of toggle-joints G G G G are not united with the upper ones in the usual way of forming such joints, but the ends of each extend be-

yond the point of union some one or more inches, as may be desired, and have holes in the same of sufficient size to receive the handle of a fan or fly-brush represented by P' P'.

R R represent the handles of two fans placed in the holes P P of the lower arms G G and rigidly held in their position by means of thumb-screws S S.

To operate this device after being adjusted as herein represented, place either foot upon the piece O and press quickly to the floor the elevated end of the same, and the wire L and cord M will cause the arms G G G G to vibrate the fans R R. Allow the foot to yield its pressure, and the spiral spring J will quickly elevate the fans to an upright position ready for another stroke.

The slot E in the top of stem D must have a length sufficient to allow the arms G G G G of said toggle-joint to give the fans R R a full stroke at the flies on the table A, and must be continuous to the top of stem D.

The two sides at the top of stem D forming the slot E should form two links or rings for the hand, as represented by T T.

If it is desired to use more than two fans or brushes, the two arms G G which support the fans R R must have forked ends with holes and thumb-screws for the reception of four fans, as herein directed, of the two; or it would be better to have adjustable pieces with forked ends, that two or four fans may be used, as desired.

I do not confine myself in the construction of this device to a combination with a caster, but will use any similar support to that of stem D without the swivel wheels C and vials, as herein set forth.

The piece I, which compresses the spring J, should be made to fit snugly the slot E and the hollow end of stem D.

The piece represented by O can be made of any character of light plank, and should always have one or more sharpened nails in the head of the same, in order that when the elevated end thereof is pressed to the floor, manipulating the fans R R, the heel of piece O will not slip under pressure.

Having thus fully described my invention, and shown how it operates.

What I claim as new therein, and desire to secure by Letters Patent, is—

In combination with table A, caster B C D, toggle-joint G G G G, operating one or more fans or fly brushes by means of spiral spring J, wire L, cord M, and piece O, substantially as and for the purpose set forth.

WILLIAM M. SMITH.

Witnesses:

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D. BALLAUF.