

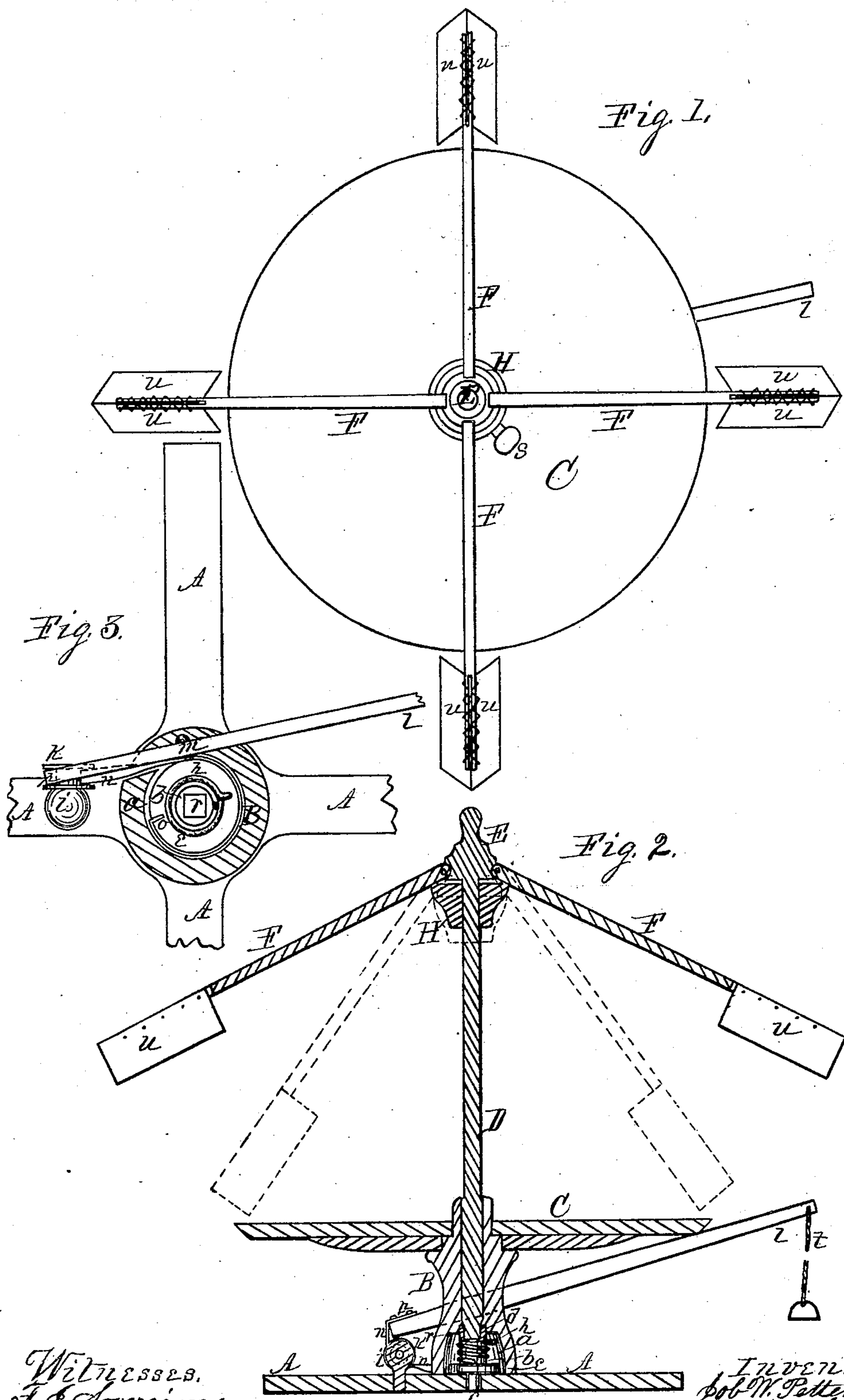
(No Model.)

J. W. PETTENGILL.

Fan Attachment for Dumb Waiters.

No. 238,429.

Patented March 1, 1881.



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FAN ATTACHMENT FOR DUMB-WAITERS.

SPECIFICATION forming part of Letters Patent No. 238,429, dated March 1, 1881.

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To all whom it may concern:

Be it known that I, JOB W. PETTENGILL, of the city of Rockford, in the county of Winnebago and State of Illinois, have invented a new and useful Improvement in Dumb-Waiters with Fan Attachments, of which the following is a specification.

This invention relates to that class of machines known as "dumb-waiters," employed in connection with breakfast, dining, and tea tables.

The object of this invention is to provide a dumb-waiter of such construction as to be conveniently applicable and capable of use on all or nearly all varieties of tables commonly used for breakfast, dining, and tea purposes, and to combine these with a fly brush or fan in a detachable manner; and it consists in a stand on which is supported a leaf capable of a rotary movement, a fly-fan capable of an oscillatory movement and made removable, and means to impart an oscillatory movement to the same. These and other improvements, all of which will be hereinafter more fully described, constitute the subject-matter of this specification.

In the accompanying drawings, Figure 1 is a plan view of my improved waiter. Fig. 2 is a vertical central section; and Fig. 3, a plan view of the feet, vertical shaft, and moving mechanism.

In the drawings, the bars A are placed at right angles, crossing each other centrally, at which crossing they are gained on each other and securely fixed in place.

B represents a pedestal having a chambered base, *a*, and is firmly fixed on the crossing-center of the bars forming the spider-base.

At *b* is represented a shaft capable of an oscillatory movement on a foot-bearing, *c*, in the spider-formed base, and its upper bearing, *d*, in the pedestal. To this shaft, immediately above the spider-base, is fixed a pulley, *e*, and immediately above this pulley the shaft is provided with a spiral spring, *h*, having one of its ends fixed to the shaft, and its other end fixed to the pedestal.

At *i* is represented a stud which rises from one arm of the spider-formed base, and a pul-

ley, *k*, is supported and revolves on a bolt or pin projecting from its side.

At *l* is represented a lever, having its fulcrum-support on a suitable bolt or pin, *m*, projecting from the side of the pedestal.

At *n* is represented a belt, having one of its ends, as at *o*, fixed to the pulley, from which point it is passed on the periphery of the pulley in the opposite direction to the spring, and out through an opening in the shell of the pedestal under the pulley *k*, and is fixed to the inner end of the lever, as at *p*. From this arrangement it will be seen that if the free end of the lever is pressed down, the action of the belt on the pulley will cause the shaft to move in its bearings in opposition to the action of the spring, and when it is permitted to rise, the action of the spring will cause the return movement of the shaft, and by means of the combined action of the lever and spring an oscillatory movement may be imparted to the shaft, and said movement will be under control of the operator.

The upper end of the shaft *b* is provided with a rectangular recess, *r*, adapted to receive the lower end of a vertical shaft.

At C is represented the leaf or platform of the waiter, made of boards, and, in this instance, circular in plan, mounted upon the upper portion of the pedestal in such a manner as to revolve thereon freely.

At D is represented a vertical shaft, fitted to revolve in a vertical axial bearing in the pedestal fitted for its reception, in such a manner as to revolve therein freely. The lower end of this shaft D is fitted to enter the recess *r* in the upper end of the shaft *b* snugly. The upper portion of the shaft D is provided with an enlargement, E, into which are hinged radial arms F, in such a manner that their free ends will be capable of a free vertical movement. The outer portion of these fan-arms are provided with fans *u*, preferably of any flexible material suitable for such purposes, and may be connected therewith in any suitable manner.

At H is represented an arm-support, having its upper edge notched to receive the radial fan-arms to support them, in such a manner as

to cause them to oscillate with the movement of the standard and prevent strain on their pivot-connection therewith. This arm-support is made vertically adjustable on the standard, to vary the inclination of the fan-arms, as represented in dotted lines, and when in the desired position the support is fixed to the standard by means of the thumb set-screws, operating in the usual manner.

From the foregoing it will be seen that the fans will be made to conform to the oscillatory movements of the shaft by means of its foot-connection therewith.

In use my improved waiter is placed on the table, supported in position thereon by means of its spider-formed base. The articles to be supported thereon are then placed in position on the leaf supported on the pedestal and the fans properly adjusted. A party seated at the table in position to operate the lever can impart an oscillatory movement to the fans, which will serve to keep flies from the contents of the waiter, and also from the table, which will be found a great comfort to the guests seated at the table, and when so seated they will be enabled to help themselves to anything contained on the waiter by turning it on its pedestal-support to any position to bring the article within their reach without disturbing any one seated at the table.

In the season of the year when flies are not troublesome the fans and their appliances may be removed without detracting from the efficiency of the waiter as such.

At *t* is represented a cord connected with the free end of the lever, which is designed to extend over the edge of the table nearly to the floor, having its end portion fitted with a loop adapted to receive the toe of the operator's foot, to enable him to operate the fans; or, instead of the loop, the cord may be attached to a foot-pedal as a convenient arrangement by which to operate the fans.

It will be seen that the construction of the base in spider form will not materially interfere with the arrangements of the articles to be placed on the table, as they can be placed in position in the several angles formed by the cross-arms of the base.

I claim as my invention—

1. In a dumb-waiter, the combination, with a spider-base adapted to be placed on the top of a table, of a chambered pedestal rigidly secured to said base, spring mechanism located in the pedestal and adapted to actuate a vertical shaft axially mounted in the pedestal, in rotary movement, and a platform mounted on the pedestal and adapted to have free movement thereon, substantially as set forth.

2. In a dumb-waiter with fan attachments, the combination, with a waiter-base adapted to be placed on the top of a table, a pedestal, and a rotating platform, of a shaft journaled in the pedestal and waiter-base, a spring lo-

cated within the chambered pedestal and encircling the shaft journaled therein, and flexible connection with the shaft, adapting it to be rotated in opposition to the spring, substantially as set forth.

3. In a dumb-waiter with fan attachments, the combination, with a waiter-base and a pedestal secured thereto, of a shaft journaled in the chambered standard and base, a spring encircling said shaft, a drum mounted on the shaft, and flexible connection between the drum and a lever to actuate the shaft in opposition to the spring, substantially as set forth.

4. In a dumb-waiter with fan attachments, the combination, with a chambered pedestal, of a shaft journaled in the waiter-base, and a spring located within the chambered pedestal and encircling the shaft therein journaled, one end of said spring being secured to the shaft and one to the wall of the pedestal, substantially as set forth.

5. In a dumb-waiter with fan attachments, the combination, with a chambered pedestal, a shaft journaled therein, and a spring encircling said shaft, of a lever fulcrumed on the pedestal, and flexible connection between the lever and shaft, to actuate the shaft in opposition to the spring, substantially as set forth.

6. In a dumb-waiter with fan attachments, the combination, with a chambered pedestal, a shaft journaled in the pedestal, a spring encircling the shaft, and a drum mounted on the shaft, of a lever fulcrumed on the pedestal, and having flexible connection with the drum mounted on the shaft, and a pulley secured to the standard and adapted to transmit the motion of the lever to the said drum, substantially as set forth.

7. In a dumb-waiter with fan attachments, the combination, with a chambered pedestal, a shaft journaled therein, and means for imparting an oscillating motion to said shaft, of a fan-supporting standard, the lower end of which is received in the upper end of the shaft, substantially as set forth.

8. In a dumb-waiter with fan attachments, the combination, with a vertical standard, of an arm-supporting block located at the top of the standard, the said block having an annular recess around its lower edge, and of fan-arms the inner ends of which are adapted to be received in the recess of the arm-block, to be pivotally secured therein by a ring, substantially as set forth.

9. In a dumb-waiter with fan attachments, the combination, with a rotating fan-supporting standard, of fan-arms pivotally secured to the enlarged upper end of said standard, and a sleeve mounted upon the standard and made vertically adjustable thereon, to vary the inclination of the fan-supporting arms, substantially as set forth.

10. In a dumb-waiter with fan attachments,

the combination, with a base, a chambered
pedestal and a platform, a shaft journaled in
the pedestal, and a spring encircling the shaft,
of a lever fulcrumed to the pedestal, flexible
5 connection between the lever and shaft, and a
fan-supporting standard arranged to partake
of the motion of the shaft, fan-arms pivoted
to the end of the standard, and a sleeve

mounted on the standard and adapted to
change the inclination of the fan-arms, sub- 10
stantially as set forth.

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Witnesses:

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