

No. 846,661.

PATENTED MAR. 12. 1907.

E. R. GODWARD.
EGG BEATER, WHISK, &c.
APPLICATION FILED APR. 19, 1906.

2 SHEETS—SHEET 1.

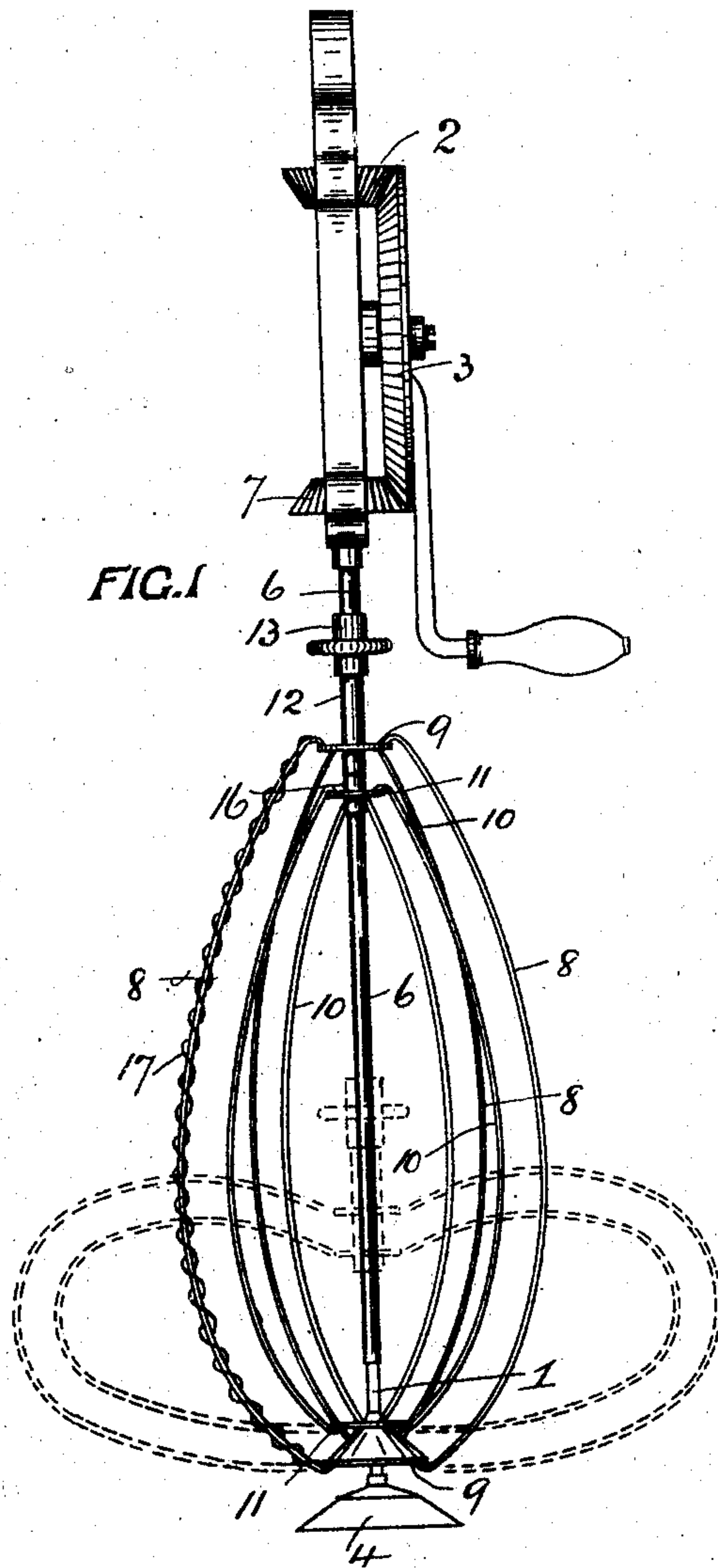
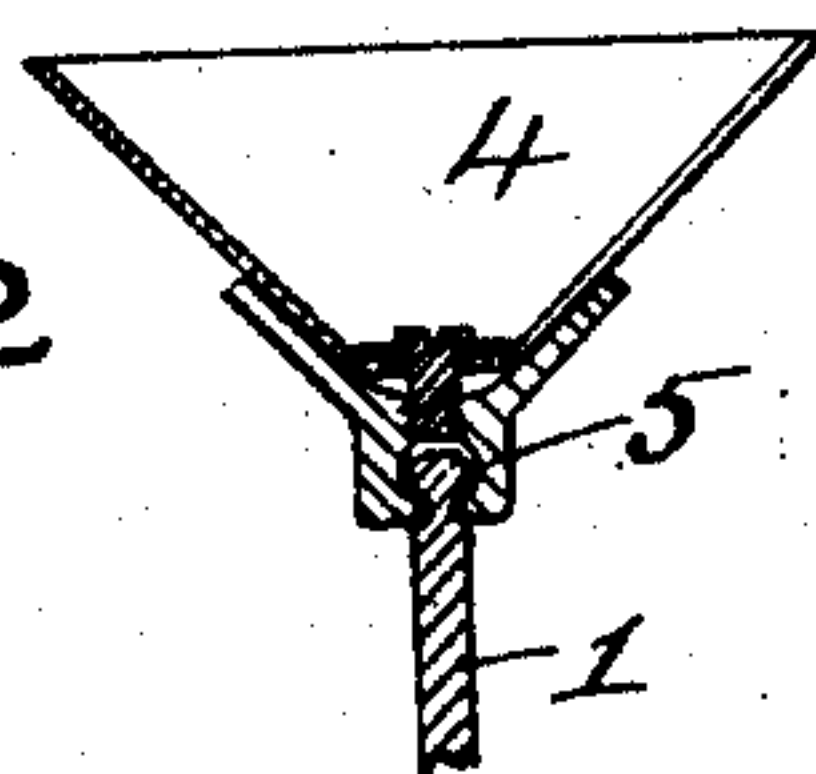


FIG. 2



WITNESSES:

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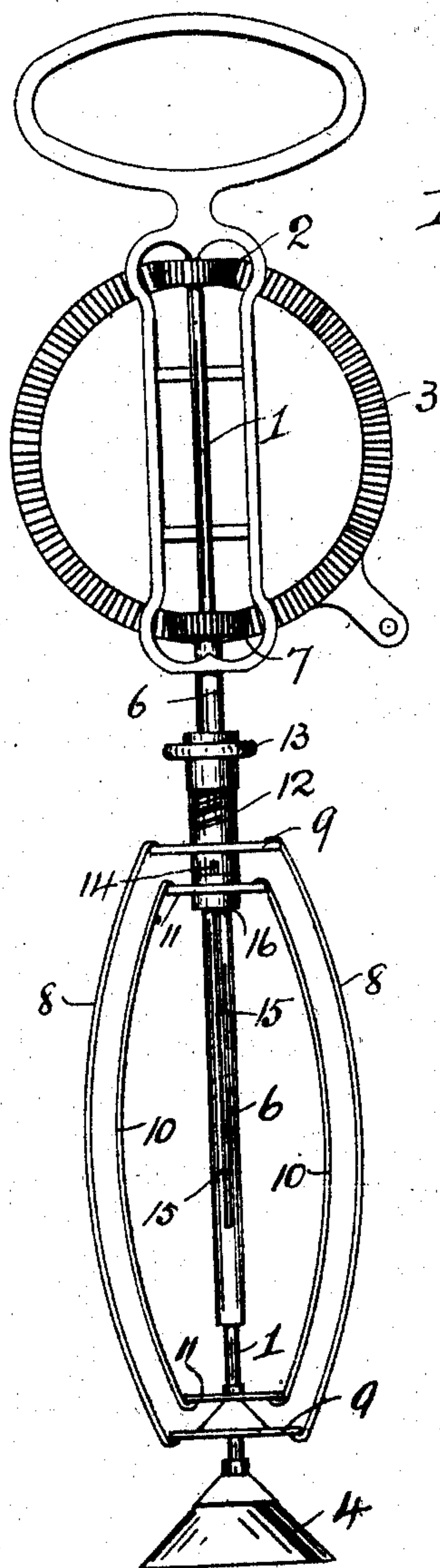


Fig. 3

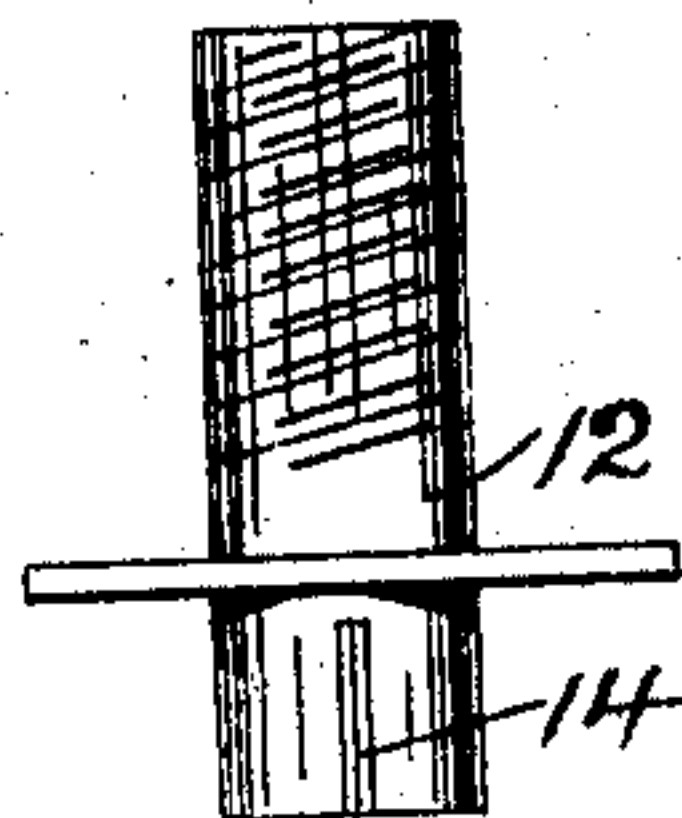


Fig. 4

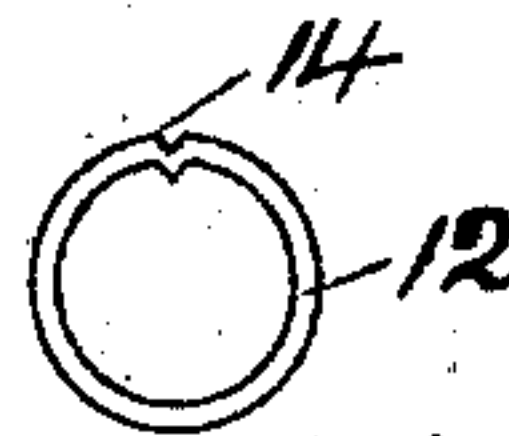


Fig. 5

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UNITED STATES PATENT OFFICE.

ERNEST ROBERT GODWARD, OF INVERCARGILL, NEW ZEALAND.

EGG-BEATER, WHISK, &c.

No. 846,661.

Specification of Letters Patent.

Patented March 12, 1907.

Application filed April 19, 1906. Serial No. 312,548.

To all whom it may concern:

Be it known that I, ERNEST ROBERT GODWARD, a subject of the King of Great Britain, residing at Invercargill, Southland, New Zealand, have invented new and useful Improvements in Egg-Beaters, Whisks, and the Like; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to egg-beaters, whisks, and the like, and provides means for keeping the appliance from slipping during action. For this purpose I arrange a sucker of rubber or other suitable material upon the lower end of the beater-spindle which will grip the glass, porcelain, or other surface upon which the beater may be placed.

The invention also provides improvements in connection with the beater-wires and the way they are mounted and will be found illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a beater or whisk. Fig. 2 is a sectional view of the sucker, showing its connection with the beater-spindle. Fig. 3 is a side elevation of Fig. 1. Fig. 4 is an enlarged detail showing friction-sleeve, and Fig. 5 is an end view of same.

The principal spindle 1 is mounted in a suitable frame and is rotated through the spur-wheel 2, which in turn is actuated by the hand-wheel 3. Attached to the lower end of spindle 1 by means of a ball-and-socket joint 5 is the sucker 4. By this arrangement the beater appliance can be held firmly upon a slippery surface, while at the same time it will be permitted to sway to and fro during action.

Enveloping the principal spindle 1 is a sleeve or hollow spindle 6, which is rotated through spur-wheel 7, acted upon by wheel 3.

The beater-wires are arranged in two sets and are intended to rotate reversely to each other. One set of beaters 8 is attached to rings 9, while the other set 10 is connected to rings 11. The uppermost of the pair of rings 9 is securely held upon a friction-sleeve 12, while the lower ring of the pair 11 is one with the principal spindle 1.

The beaters 8 and 10 are made of flexible material, such as steel wire or the like, which renders it possible to run the friction-sleeve up and down the spindle-sleeve 6, as shown in dotted lines in Fig. 1, in which the beaters are bulged outward. This prop-

erty of my invention is a useful one, as the beaters may be adjusted to suit various-shaped receptacles in which the appliance is to be used, and it also insures that the whole surface of the beaters may be submerged in the material being beaten instead of, as heretofore, only a portion thereof being used effectively.

The friction-sleeve 12 is split and provided with a thread at its upper end, whereon a nut 13 meshes for the purpose of pressing the sleeve against spindle 6. The lower part of the sleeve is provided with an indent 14, which takes into a V-shaped groove 15 in the spindle 6.

One of the rings 11 is mounted on a collar 16, distinct from the friction-sleeve 12 for the purpose hereafter explained.

The spindles 1 and 6 will be rotated reversely, and consequently the beater sets 8 and 10 also, the set 8 from the friction-sleeve 12 upon the spindle 6 and the set 10 directly from spindle 1.

The collar 16 will be kept close against the friction-sleeve 12 by virtue of the resiliency in the beaters 10 and will revolve on the spindle in the same direction as the spindle 1. The collar will maintain the same position with reference to the sleeve 12 as the latter is slid up or down the spindle 6.

By means of the flexible and adjustable beaters the shape of the latter may be made to approximately conform to, say, a bulb-shaped jug after the appliance has been placed therein for the purpose of more effectively agitating the material to be whipped.

The beaters are attached to their spindles preferably in the same way as the ribs of an umbrella are secured to the shaft.

If desired, the beaters in my appliance may be arranged to rotate in one direction only by mounting them entirely upon one spindle.

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

1. In a device of the kind indicated, in combination, spindles rotating in opposite directions to each of which beaters are attached, a friction-sleeve upon one spindle connected with one set of beaters, and a sucker upon the lower end of the principal spindle adapted to be fixed while the spindle rotates, as described and set forth.

2. In a device of the kind indicated, in

combination, a principal spindle and a sleeve-
spindle upon the same, adapted to rotate in
opposite directions, sets of beaters, one set
revolving with the principal spindle and one
5 set with the sleeve-spindle, a friction-sleeve
adapted to rotate with the sleeve-spindle and
to be moved up and down the same, a wire
or wires encircling each of the beaters, and a
sucker upon the lower end of the principal

spindle, all substantially as described and to
operating as set forth.

In testimony whereof I have signed this
specification in the presence of two subscrib-
ing witnesses.

ERNEST ROBERT GODWARD.

Witnesses:

W. ALEXANDER,

G. T. Mix.