

(No Model.)

T. W. BROWN.

EGG BEATER.

No. 369,273.

Patented Aug. 30, 1887.

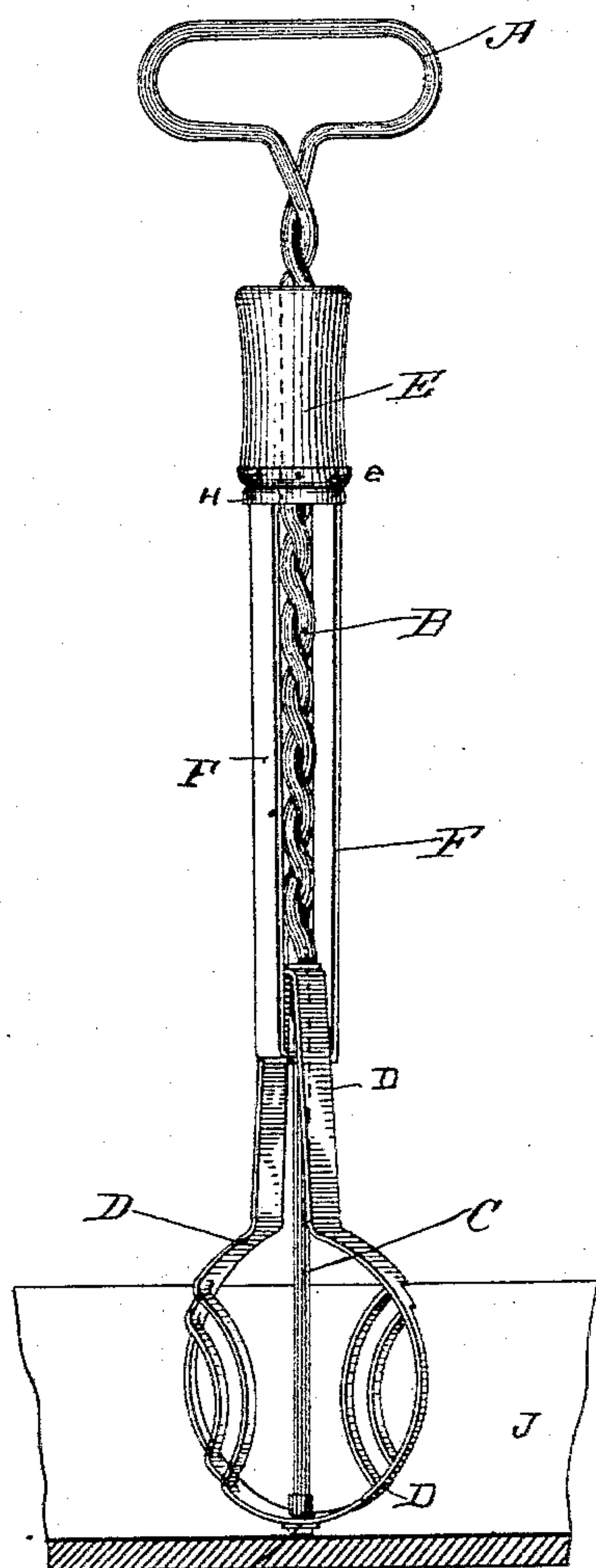


Fig. 1.

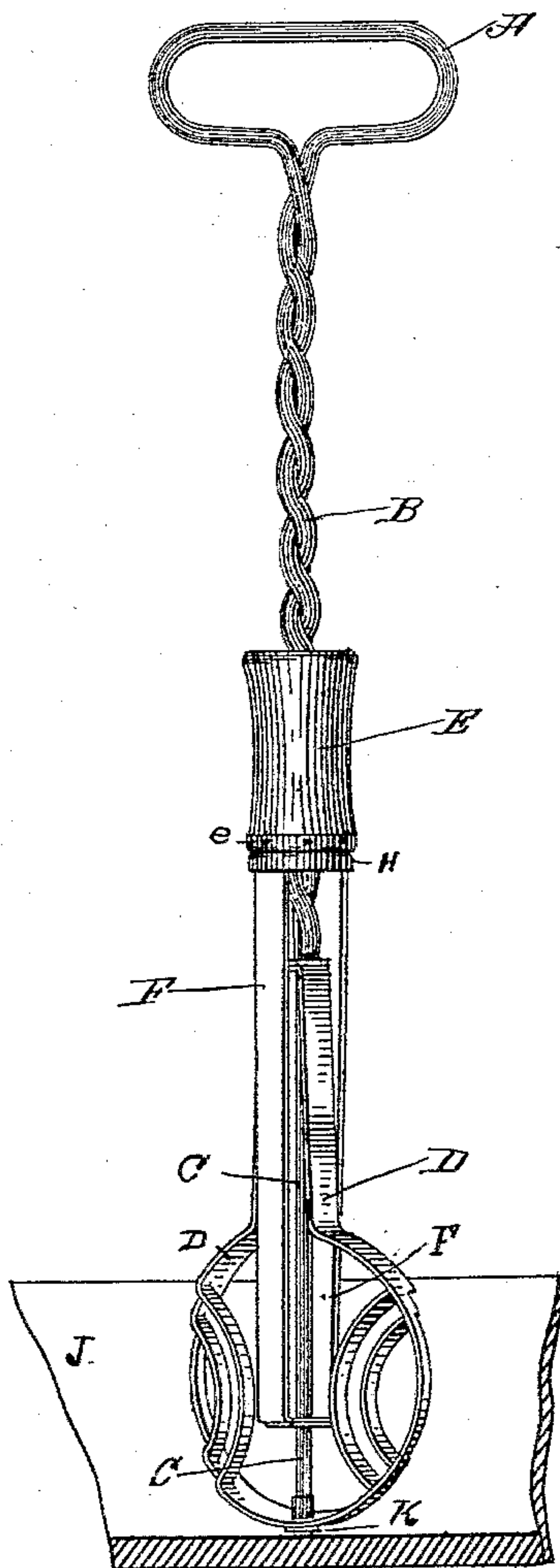


Fig. 2.

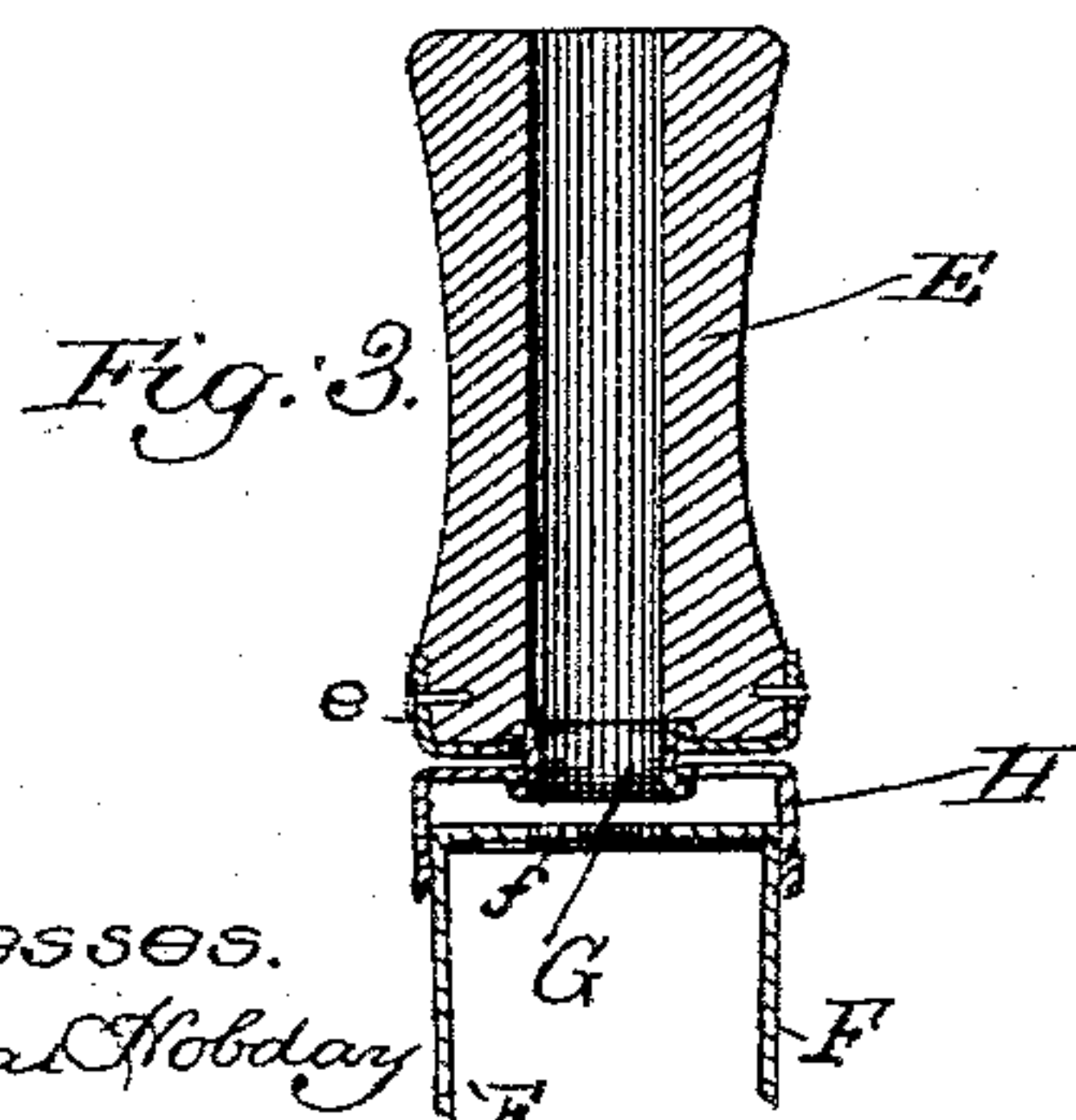


Fig. 3.

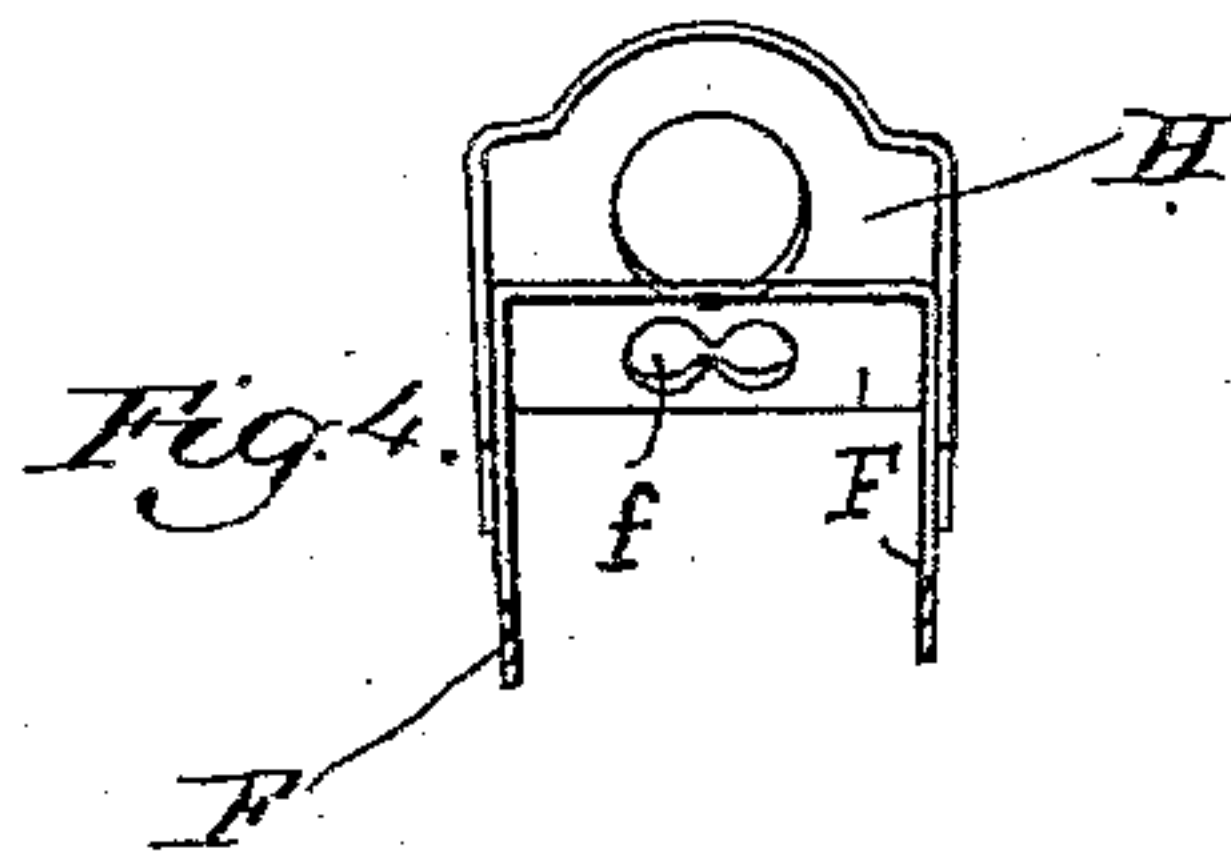


Fig. 4.

witnesses.
Thomas Hobday
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UNITED STATES PATENT OFFICE.

THOMAS W. BROWN, OF BELMONT, ASSIGNOR TO THE NATIONAL MANUFACTURING COMPANY, OF WORCESTER, MASSACHUSETTS.

EGG-BEATER.

SPECIFICATION forming part of Letters Patent No. 369,273, dated August 30, 1887.

Application filed February 17, 1887. Serial No. 227,904. (No model.)

To all whom it may concern:

Be it known that I, THOMAS W. BROWN, of Belmont, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Egg-Beaters, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention is an improvement in egg-beaters of that class having a twisted or spiral shank between the handle and the rotary beating-blade, which blade is actuated by reciprocating a movable slide upon the twisted shank. Heretofore said shanks have been caused to rotate with the blade and an external supporting-frame has been required.

By my improvement the spirally-twisted shank is formed in one with the handle, and a part of it is prolonged to form a bearing on which the beater revolves, and a terminal rest by which the operator may hold the implement steadily in position while being used.

Another peculiarity of my improvement is the swivel-connection between the rotary beater-blade and the non-rotary reciprocating slide.

My invention consists in the improved utensil herein described and shown and in the combination of devices set forth in the appended claims.

The drawings represent, in Figures 1 and 2, elevations of my improved egg-beater, showing two positions of the parts which reciprocate on the stationary screw-shank. Figs. 3 and 4 are details of the swivel-connection, Fig. 3 showing the tubular slide joined by the eyelet to the loop at the base of the spirally-moving coupling-arms, and Fig. 4 representing said base in perspective.

In the drawings, A is the handle; B, the shank, formed integral therewith by twisting together the ends of the wires of which both are made.

C is a straight prolongation of one end of the wire beyond the other, constituting a cylindrical bearing upon which the beater-blade revolves. This blade consists of a broad flattened wire or a narrow strip of sheet metal bent centrally nearly into the outline of a hoop and having its ends prolonged about parallel with each other and at each side of the bearing C and its extremities turned in

and perforated for said bearing-rod to pass through them. This rod C also passes through a central perforation in the hoop-shaped portion of the beater, thus giving the blade D a second bearing.

The rod C terminates in a small knob, K, which prevents the blade D from dropping off, and also constitutes a rest to support the beater while in use, to keep the blade D the desired distance from and out of contact with the bottom of the bowl J.

Rotation is imparted to the blade D by a reciprocating slide, E, and swivel-coupling F G. The part F is an elongated link, its sides extending parallel with the shank B and bearing C and engaging laterally with the prolonged parallel ends of the beater-blade while reciprocating at each side of them. The base of the link has a perforation, *f*, shaped to fit as a nut upon the twisted-wire shank which passes through it, and the tip of the link has a round hole through it to fit loosely upon the bearing-wire C, so that when the coupling is reciprocated it will also be rotated alternately in opposite directions and will impart such rotation to the blade D. An eyelet, G, through which the shank B passes freely, connects loosely the cap *e* of the slide E with the base of the coupling-link F, preferably by a loop, H, or a cup fixed to said base. This loose connection of the parts enables the coupling to swivel about the shank and to communicate a rotary movement to the beater-blade.

The elongated part F of the coupling may reciprocate from the upper end of the straight portion of the beater-blade across and into contact with the inner face of its curved part, the bearing C being a guide in such movement.

I claim as my invention—

1. In an egg-beater, the handle A, stationary screw-shank B, and bearing C, in combination with the rotary beater D, reciprocating slide E, and interposed swivel-coupling, F G, with its nut *f*, substantially as set forth.

2. In an egg-beater having a fixed screw-shank and rotary beater-blade, the swivel-coupling F G, consisting of the spirally-moving link F, and the eyelet G, loosely attaching said link to the reciprocating slide E, substantially as set forth.

3. In an egg-beater, the handle A, twisted
shank B, cylindrical bearing C, and rest K,
formed of a single length of wire, in combi-
nation with the beater-blade D, rotated about
5 said bearing by a reciprocating slide, and
coupling, with its nut *f*, substantially as set
forth.

In testimony whereof I have signed my

name to this specification, in the presence of
two subscribing witnesses, on this 11th day of 10
February, A. D. 1887.

THOMAS W. BROWN.

Witnesses:

A. H. SPENCER,
J. C. KENNEDY.