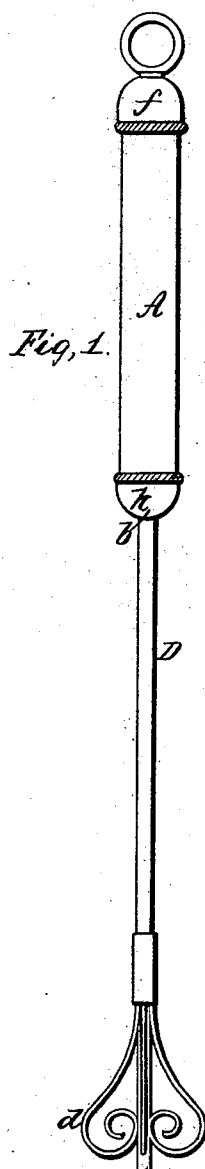
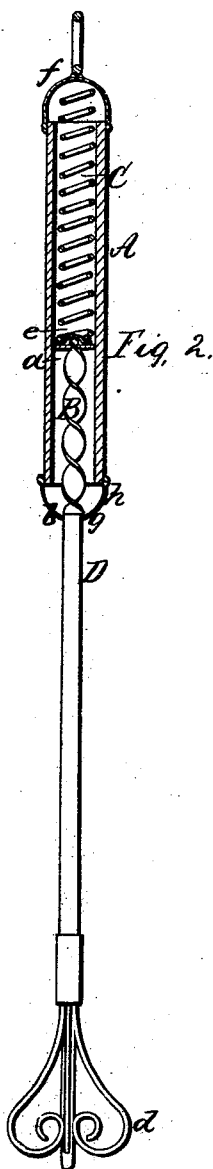


D. D. Mackay,

Egg-Beater.

N^o 85,460.

Patented Dec. 29, 1868.



Witnesses;
Fred. Haynes
A. Hunter

Inventor;
D. D. Mackay

United States Patent Office.

D. D. MACKAY, OF WHITESTONE, NEW YORK.

Letters Patent No. 85,460, dated December 29, 1868.

IMPROVED EGG-BEATER.

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, D. D. MACKAY, of Whitestone, in the county of Queens, and State of New York, have invented a new and useful Improvement in Muddlers and Egg-Beaters; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a side view of a muddler or egg-beater constructed according to my improvement, and

Figure 2, a vertical section of the same.

Similar letters of reference indicate corresponding parts in both figures.

This invention consists in a novel arrangement of devices within the handle of a toddy-muddler or egg-beater, whereby, when the handle is held in the hand, with the bottom of the muddler or beater in a tumbler or other vessel, the shaft or stem of the muddler, and the attached stirrers or beating-wings, may have an alternate rotary motion imparted to them, by alternately pressing down and raising the handle.

In order that others may be better enabled to understand the construction and operation of my invention, I will proceed to describe it, with reference to the drawings.

A is the handle, with an opening through its entire length, and closed at its extremities by caps, *f* and *h*.

Below and near the central portion of the handle, and within this opening or cavity, is secured a nut, *a*, between which and the upper cap, *f*, is inserted a spiral spring, C, carrying at its lower extremity a concave bearing, *e*.

D is a rotary vertical shaft or stem, working through an opening, *b*, in the lower cap, *h*, and which has its upper portion, B, flattened and twisted, or otherwise rendered spiral or threaded, said spiral or threaded

portion being of somewhat greater diametral proportions than the cylindrical portion of the shaft or stem D, so as to form a stop, *g*, for preventing its passage through the opening *b* of the lower cap, *h*, and is fitted so as to work in and through the nut *a*, and against the concave bearing *e* of the spiral spring C, its upper extremity being pointed for that purpose.

At or near the lower extremity of the shaft or stem D are attached stirrers or beating-wings, *d*, for mixing or beating the substance to which it is applied.

In operating this invention, the lower part of the stem, carrying the beating-wings *d*, is placed into a tumbler or other vessel containing the substance to be mixed, and the handle A moved downward by depression of the hand, which causes the stem or shaft, acting upon its rounded or pivoted extremity, as a pivot against the bottom of the tumbler or vessel, to rotate, by means of the nut *a*, passing over the spiral or threaded portion B of the stem D, which movement exerts a tension upon the spiral spring C, by the action of the pointed extremity of the spiral B under and against the concave bearing *e* on the lower extremity of said spring. Upon the said tension being relieved by a relaxation of the hand, the spring C forces up the handle A, causing the stem to rotate in the opposite direction.

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

The combination of the spiral thread or screw B on the shaft or stem D, the nut *a*, the upper spindle-bearing *e*, the spring C, and the stop *g*, all arranged within the handle A, substantially as herein specified.

D. D. MACKAY.

Witnesses:

HENRI T. BROWN,
HENRY PALMER.