

(No Model.)

G. H. PAINE.

EGG BEATER.

No. 365,624.

Patented June 28, 1887.

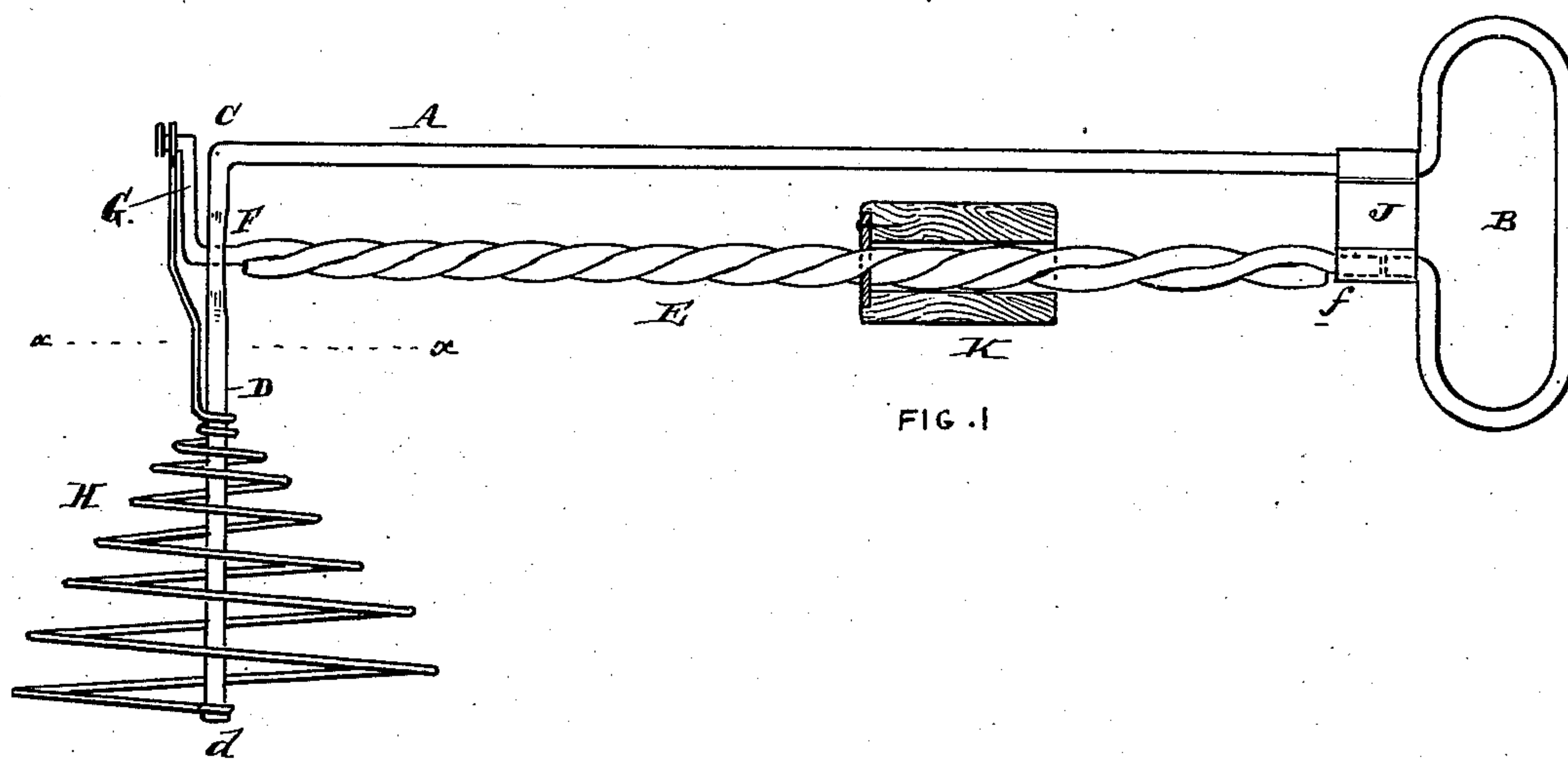


FIG. 1

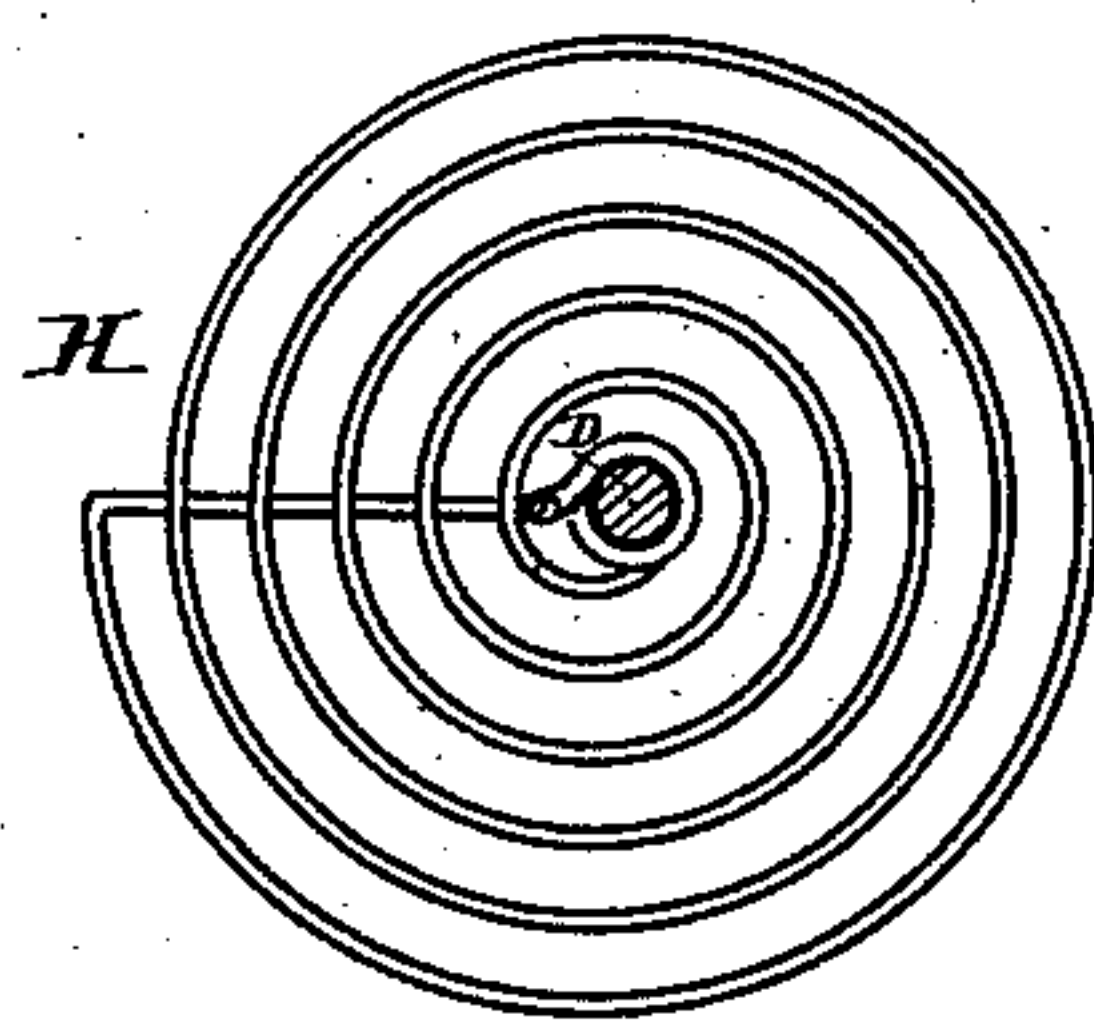


FIG. 2.

Attest
E. M. Dermott.
E. W. Breckinridge

Inventor
George H. Paine
By his atty
[Signature]

UNITED STATES PATENT OFFICE.

GEORGE H. PAINE, OF PHILADELPHIA, PENNSYLVANIA.

EGG-BEATER.

SPECIFICATION forming part of Letters Patent No. 365,624, dated June 28, 1887.

Application filed November 20, 1886. Serial No. 219,446. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. PAINE, of the city and county of Philadelphia, and State of Pennsylvania, have invented an Improvement in Egg-Beaters, of which the following is a specification.

My invention has reference to egg-beaters; and it consists of certain improvements, which are fully set forth in the following specification and shown in the accompanying drawings, which form a part thereof.

My invention is intended as an improvement on Letters Patent No. 331,662, December 1, 1885, and Patent No. 350,025, September 23, 1886, but differs materially from them in some of the most important features. In addition to the general principle of the beater set out in these patents, I have embodied in my improvement the general construction of the spiral and its frame for producing the motion as set out in Patent No. 319,191, June 2, 1885, the invention in which latter patent up to the present has been embodied in all the egg-beaters manufactured by me.

Egg-beaters have heretofore been made with a straight central rod, at the end of which is placed the dasher or beating device. Now, in my invention I use a rod bent at an angle, forming a crank-shaped support, and on one end of this supporting-rod is the dasher and at the other end a handle. A second rod, spiral in form and parallel to the upper or handled part of the supporting-rod, is loosely supported by the handle and bent part of the supporting-rod, and is attached by a crank to the dasher, which latter is formed of a spiral wire, one end of which is preferably fastened to the end of the supporting-rod and the other end to the crank. Motion is imparted by means of a tubular handle.

In the drawings, Figure 1 is a side elevation of my improved egg-beater, and Fig. 2 is a sectional plan view on line *x x*.

A is the crank-shaped supporting-rod, of any kind of metal wire or casting, one end of which is formed into the handle B, and the other end at an angle, C, is bent over into the vertical part D, the lower end of which, *d*, is the point on which the beater rests when in use.

E is the spiral rod parallel to the rod A, and loosely supported at F and *f*. A portion of this spiral E extends through the hole or

point of support F in the part D and forms a crank, G, to which the upper end of the dasher H is attached. This dasher is made preferably of wire spirally twisted and has its other end attached to the supporting-rod at *d*.

K is a tubular handle or loose nut on the spiral E.

J is a link or connecting-piece to keep the handle B firm, and also acts as the support for the spiral rod E. When the tubular handle or nut K is moved rapidly to and fro, the spiral E will revolve, and with it the crank G, to which the upper end of the dasher is attached. This revolution of the crank G will cause the dasher H to take a rapid motion of expansion and contraction, which is a motion particularly to be desired in a beating-machine.

Of course the mere details of construction may be varied without departing at all from the invention; and I do not limit myself to those here shown, as they have been chosen simply as best suited to explain the principle of the invention and not as a limitation of it.

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

1. In an egg-beater, a supporting-crank or angular rod or frame, a spiral rod loosely journaled upon the same and having a crank at one end, a loose nut or tubular handle to rotate said spiral rod, and a reciprocating dasher supported upon one arm of the frame and connected to the crank of the spiral rod, substantially as and for the purpose specified.

2. In an egg-beater, a supporting-crank or angular rod or frame, a spiral rod loosely journaled upon the same and having a crank at one end, a loose nut or tubular handle to rotate said spiral rod, and a reciprocating dasher formed of spirally-bent wire supported upon one arm of the frame, and having one end connected thereto and the other end connected to the crank of the spiral rod, substantially as and for the purpose specified.

3. In an egg-beater, the combination of the rod A, having handle B and bent part D, spiral E, loosely supported in said rod A, and having crank-extension G, reciprocating dasher H, attached to said crank G and bent part D, and tubular handle K, substantially as and for the purpose specified.

4. In an egg-beater, the combination of the rod A, having handle B and bent part D, spiral E, loosely supported in said rod A, and having crank-extension G, dasher H, made of light bent wire formed into a spiral, the inner end of which encircles the part D and is attached to said crank G, and the outer and lower end of which is connected to the bottom of the bent part D, and tubular handle K, substantially as and for the purpose specified.

5. In an egg-beater, a supporting rod or frame, a spiral rod carried thereby and adapted to rotate, a loose nut or tubular handle to rotate said spiral rod, a reciprocating dasher carried by the supporting-frame, and a connection between said spiral rod and dasher, whereby the rotary action of the spiral rod causes a reciprocation of the dasher.

6. In an egg-beater, a supporting rod or frame, a spiral rod carried thereby and adapted to rotate, a loose nut or tubular handle to rotate said spiral rod, a reciprocating dasher formed of spiral wire carried by the supporting-frame, and a connection for converting rotary motion into reciprocatory motion between said spiral rod and dasher, whereby the rotary action of the spiral rod causes a reciprocation of the dasher.

In testimony of which invention I hereunto set my hand.

GEORGE H. PAINE.

Witnesses:

R. M. HUNTER,

E. M. BRECKINSEED.