J. H. SCOFIELD.

EGG-BEATER.

No. 190,628. Patented May 8, 1877.

Fig. 1.

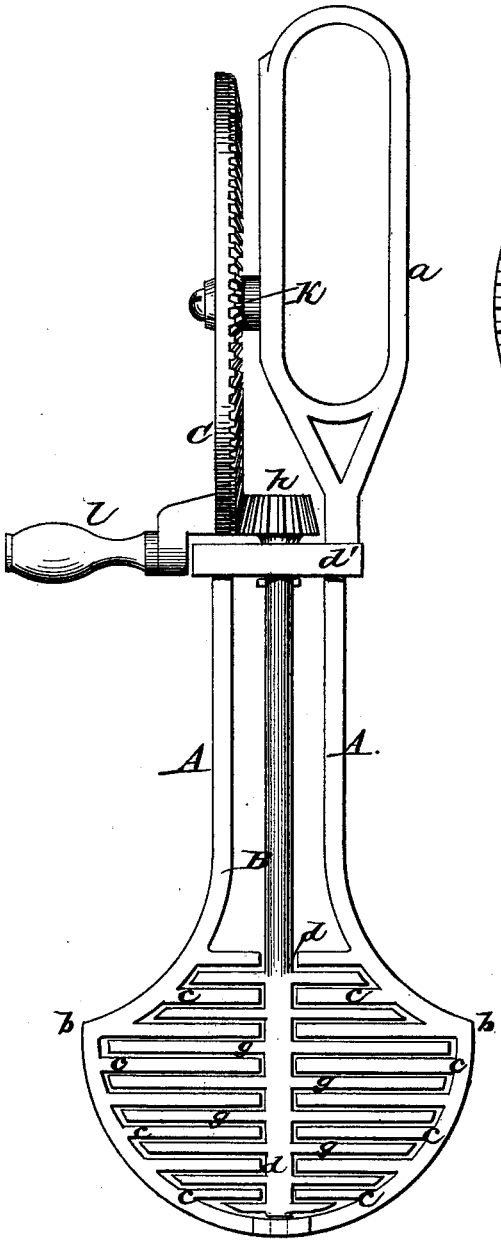
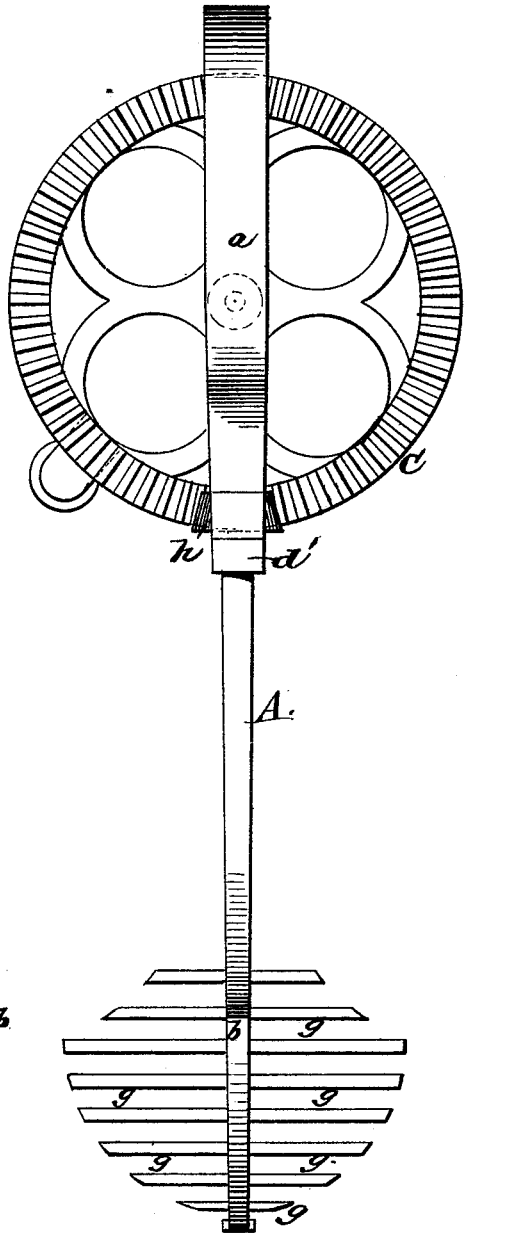


Fig. 2.



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JAMES H. SCOFIELD, OF NEW YORK, N. Y.

IMPROVEMENT IN EGG-BEATERS.

Specification forming part of Letters Patent No. **190,628**, dated May 8, 1877; application filed April 25, 1877.

To all whom it may concern:

Be it known that I, JAMES H. SCOFIELD, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Egg-Beaters, of which the following is a specification:

This invention relates to an improved egg-beater, its object being to obviate the labor heretofore experienced in beating the eggs to a froth, and accomplish the work with more expedition and in better manner than can be done by hand.

The invention consists, essentially, of a skeleton-frame constructed in one piece, with a handle, which supports the crown-wheel, a vertical shaft, carrying horizontal arms, being arranged in said frame, and being driven by the crown-wheel engaging with a pinion on the shaft, the enlarged lower end of the frame being constructed with a series of inwardly-projecting arms, between which the arms on the shaft pass, as will be more fully hereinafter described.

In the drawings, Figure 1 represents a front elevation of my improved egg-beater, and Fig. 2 a side elevation of the same.

The letter A represents a frame of metal, preferably cast in one piece, although it may be otherwise constructed, if desirable. The upper part of the said frame is formed with a handle, *a*, by means of which it may be held, and the lower part is enlarged, as shown at *b*, and provided with a series of parallel horizontal arms, *c*, extending from each side inwardly, terminating at a point each side of a vertical line midway between the two sides, leaving a vertical space, *d*, between the ends of the bars extending from opposite sides, in which the lower portion of the vertical shaft B sets. The lower end of said vertical shaft is journaled at the bottom of the frame A, and the upper end in a cross-piece, *d'*, forming part of the frame A, and located just at the lower termination of the handle *a*. That portion of the shaft B which lies between the parallel horizontal arms *c* is provided with a series of similar arms, *g*, extending radially from the shaft, and adapted to pass between the arms *c* as the shaft B is rotated. The upper end of the shaft B extends through the cross-piece *d'*, and is provided with a pinion, *h*, which gears into a crown-wheel, C, which is mounted on a pin, *k*, secured to the handle *a*, and which is provided with a crank, *l*, by which it may be put in motion.

Instead of forming the frame and handle in one piece, it is evident that they may be formed separately and secured together at the cross-piece, and the shape of the handle and the lower part of the frame may be varied at pleasure without materially changing the character of my invention, and the parallel arms of both the frame and the vertical shaft, instead of being formed with the shaft and frame, may be formed separately and attached in any suitable manner.

The operation of my invention is as follows: The apparatus is held by the handle, with the lower portion resting on the bottom of the vessel containing the egg to be beaten. Upon rotating the crown-wheel, an increased rotary motion will be imparted to the vertical shaft, causing the radial arms to rotate and pass between the parallel horizontal arms on the lower part of the frame, violently agitating the egg in the vessel, and bringing it speedily to the condition of froth; and, moreover, the horizontal arms being constructed with square edges, they rapidly cut the egg up.

Instead of the arms being horizontal, they may be arranged on the spindle or shaft in a spiral manner, so as to carry the egg up within itself; and there may be washers interposed between the horizontal arms, so as to separate the same.

It is also evident that the arms *c* can be made to revolve, and the arms *g* be made stationary.

Having described my invention, what I claim is—

The frame constructed in one piece, with a handle, *a*, for supporting the crown-wheel and the vertical shaft, and with a series of parallel horizontal arms, substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of the subscribing witnesses.

JAMES H. SCOFIELD.

Witnesses:

J. D. HUSBANDS, Jr.,

S. OTIS LIVINGSTON.