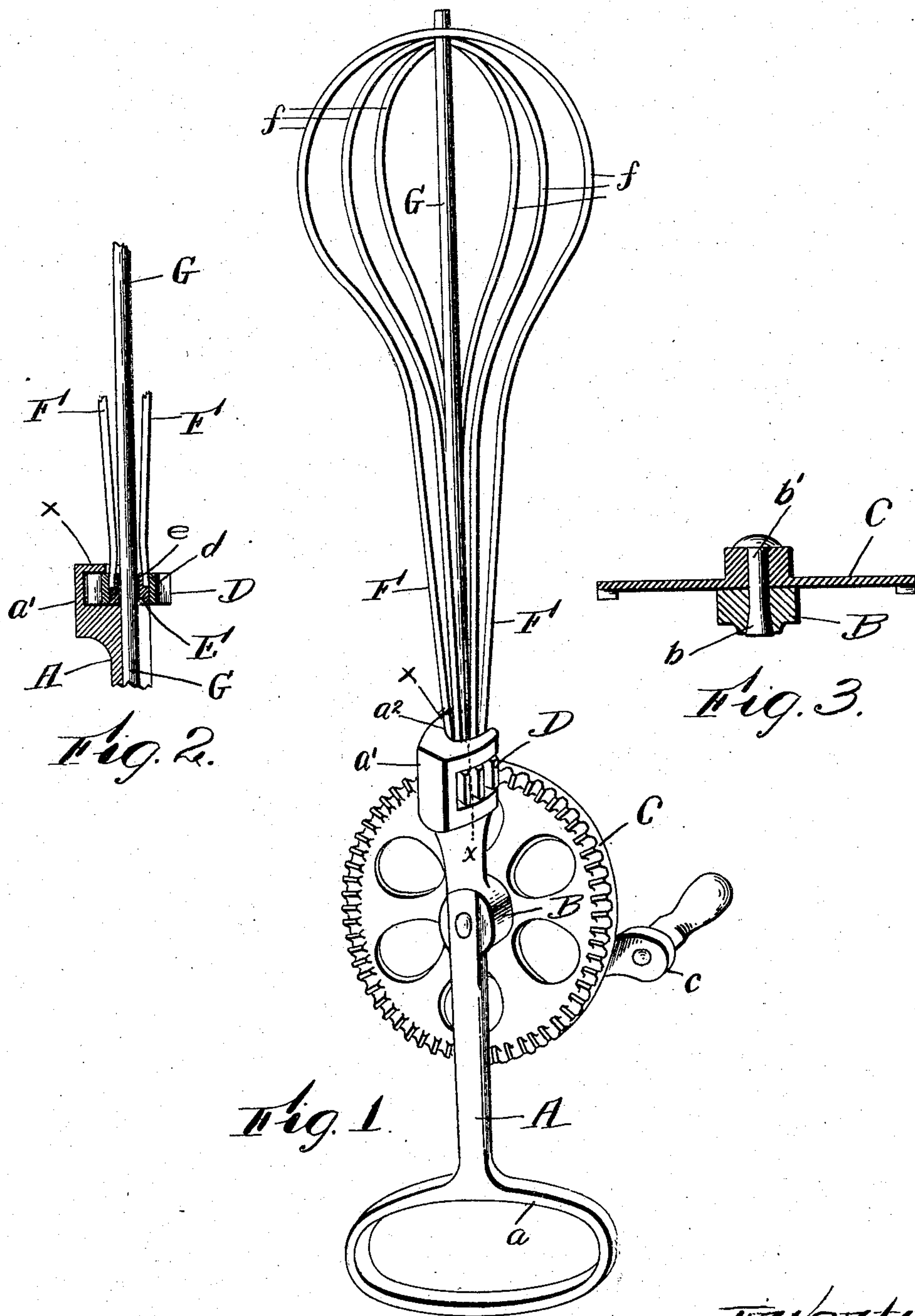


No. 785,114.

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G. M. MUNN.
EGG BEATER.

APPLICATION FILED MAY 9, 1904.



Witnesses:
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UNITED STATES PATENT OFFICE.

GEORGE M. MUNN, OF FITCHBURG, MASSACHUSETTS.

EGG-BEATER.

SPECIFICATION forming part of Letters Patent No. 785,114, dated March 21, 1905.

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To all whom it may concern:

Be it known that I, GEORGE M. MUNN, of Fitchburg, in the county of Worcester and State of Massachusetts, have invented certain
5 new and useful Improvements in Egg-Beaters; and I do hereby declare that the following is a full, clear, and exact description of the same.

This invention relates to stirrers and beaters, and particularly to a device designed for use
10 as an egg-beater.

An object of this invention is to provide novel means for anchoring and rotating the beaters, the said beaters being so secured as to permit their looped ends to stand away from the cen-
15 tral standard by reason of the centrifugal force incident to the rotation of said beater, thus causing the said beaters to describe a larger circle in their movement than they do when the said beaters are in their normal position
20 and the circle described being proportional to the speed at which they are rotated.

Furthermore, an object of this invention is to provide novel means for rotating the beaters independently of the central standard, which
25 forms a support for the operating mechanism.

Furthermore, an object of this invention is to provide novel means for mounting the power-wheel with relation to the frame and the pinion which carries the beaters; and the
30 invention further contemplates the provision of means for anchoring the ends of the beaters with relation to the pinion in order that an ordinary pinion may be utilized and in which the construction is simplified.

Finally, an object of this invention is to provide an egg-beater of the character noted which will prove simple in its construction and comparatively inexpensive to manufacture.

With the foregoing and other objects in
40 view the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully set forth and specifically claimed.

In describing the invention in detail refer-
45 ence will be had to the accompanying drawings, forming part of this specification, wherein like characters denote corresponding parts throughout the several views, in which—

Figure 1 is a perspective view illustrating
50 an egg-beater embodying the invention. Fig.

2 is a sectional view on the line X of Fig. 1, with fragments of the beaters in elevation and with the gear-wheel removed. Fig. 3 is a sectional view through the power-wheel and its supporting member.

In the drawings, A indicates the standard, terminating at one end in a handle *a* and at its opposite end in a bracket *a'*, the said bracket being approximately C-shaped. Intermedi-
55 ately the length of the standard A is a boss B, which has a flared opening *b* for the reception of the pivotal pin *b'*, the said pivotal pin *b'* having mounted thereon the gear-wheel C, which is designated as the "power-wheel" and is
60 provided with a crank-handle *c* for the purpose of rotating the said wheel. The pivotal pin is preferably swaged in the opening *b* of the boss, and the gear-wheel *c* is rotatable thereon.

The bracket at the end of the standard has
70 its outer portion recessed, as shown at *a''*, for the accommodation of the beaters and a supporting-rod, (to be hereinafter described.) Within the C-shaped portion of the bracket I mount a pinion D, having a central opening
75 *d* for the reception of the core E, the said core having peripheral recesses *e* extending from its outer surface and terminating a suitable distance from the opposite surface of the
80 said core. When the core is applied to the pinion, sockets are formed which are designed for the reception of the ends of the beaters F, said ends being anchored in the sockets by
85 brazing or in any suitable manner. The beaters comprise strips of metal, preferably wire, bent on themselves to form the loops *f*, and the two ends of each beater are anchored with
90 relation to the pinion in the manner heretofore described. The supporting-rod G extends through the core and has its end secured to the standard A by brazing or otherwise,
95 and the said rod G forms a shaft around which and on which the core of the pinion rotates. The pinion is prevented from displacement by the portions of the brackets *a'*, as will be
100 fully apparent from an inspection of Fig. 1.

In operation when the gear-wheel C is rotated by means of the crank-handle the pinion D is turned, and as the core E is secured to rotate with the pinion the beaters F, which

have their ends anchored in the core, are also rotated. As the loops *f* of the beaters are independent of each other and of the rod G, the centrifugal force due to their rotation will
5 cause them to move away from the rod and beat the contents of a receptacle in connection with which the said beater is operated.

The core E and pinion D may be secured together in any suitable manner, though in
10 practice the ends of the beaters could be brazed to the pinion and core at the same time, thus making the parts practically integral and minimizing the cost of the construction.

The operation of this invention and the details will, it is thought, be understood from
15 the foregoing description, it being noted that various changes may be resorted to in the proportions without departing from the scope of the invention.

20 Having fully described the invention, what

I claim as new, and desire to secure by Letters Patent, is—

In an egg-beater, a standard terminating at one end in a handle and at the opposite end in a bracket, a gear-wheel pivoted intermediate
25 the standard, a pinion mounted in the bracket and meshing with the gear-wheel, said pinion having an opening, a removable core fitting in the opening, said core having peripheral recesses extending from the outer surface of the
30 core and terminating a suitable distance from the opposite surface of said core, said recesses forming sockets when the core is applied, beaters anchored in the sockets and a supporting-rod passing through the core and secured
35 at one end to the standard.

GEORGE M. MUNN.

Witnesses:

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