

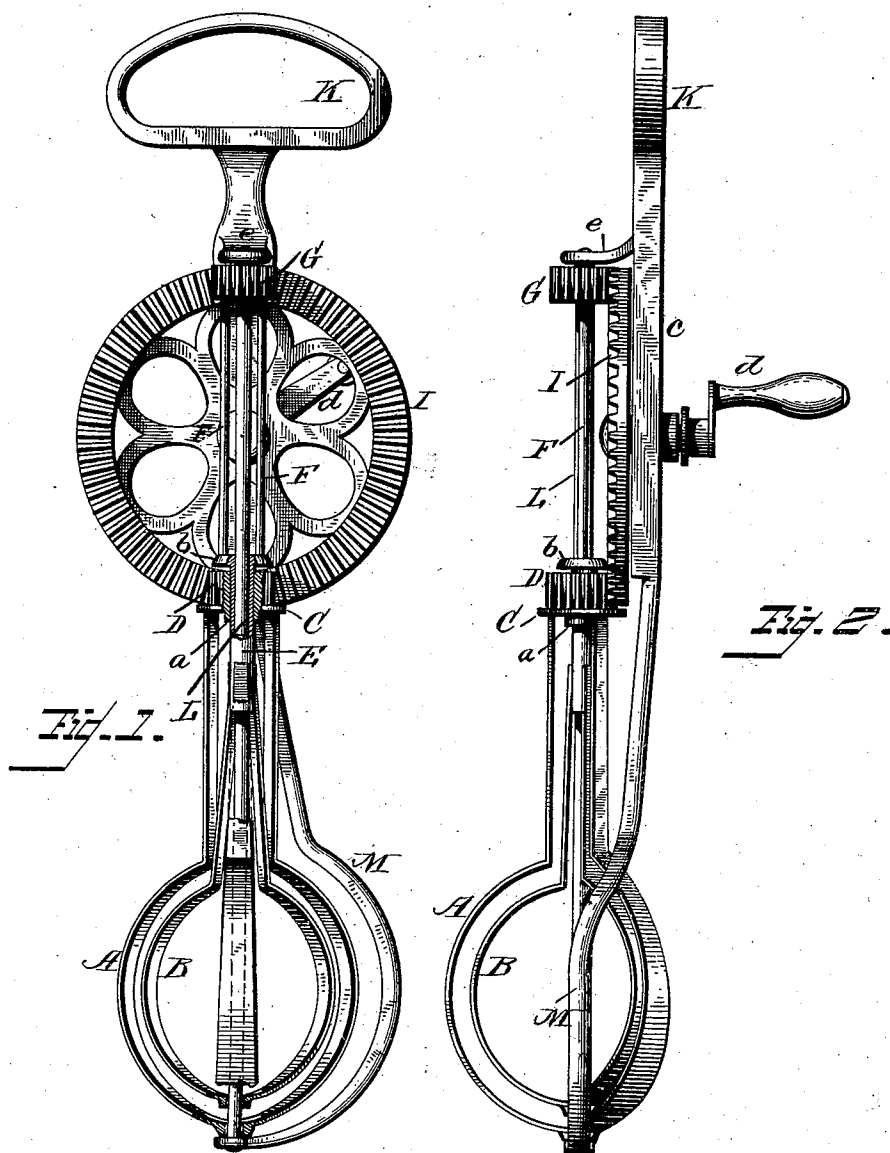
(No Model.)

D. B. ROCK.

EGG BEATER.

No. 332,837.

Patented Dec. 22, 1885.



Witnesses
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Inventor
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UNITED STATES PATENT OFFICE.

DANIEL B. ROCK, OF FAIRFIELD, PENNSYLVANIA.

EGG-BEATER.

SPECIFICATION forming part of Letters Patent No. 332,837, dated December 22, 1885.

Application filed June 27, 1885. Serial No. 169,929. (No model.)

To all whom it may concern:

Be it known that I, DANIEL B. ROCK, a citizen of the United States, residing at Fairfield, in the county of Adams and State of Pennsylvania, have invented certain 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, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a front elevation of my improved egg-beater, and Fig. 2 a side elevation thereof.

The present invention has relation to that class of egg-beaters provided with a stationary supporting-rod and two sets of beaters revolving around said rod in opposite directions.

In the above-described construction of egg-beaters two independent toothed driving-wheels were required to engage the two pinions connected to the beaters for operating them. These driving-wheels were mounted upon a common shaft and located upon opposite sides of the handle of the egg-beater, and were of different diameters to engage at the lowest point of their circumference with pinions, also of unequal diameters, which were connected to the beaters. In the employment of two independent driving-wheels it was necessary to have them of different diameters, so as to bring their gearing-surfaces on different horizontal planes, in order to engage the teeth of the pinions, which were arranged one above the other; and it was further necessary to have these pinions of different diameters, so as to bring the teeth of each pinion on a line to engage with its respective driving-wheel without meshing with the teeth of the oppositely-located wheel.

It is the purpose of my invention to dispense entirely with the two toothed driving-wheels above described, and in place thereof use only a single driving-wheel, and by locating the pinions so as to engage with the teeth of the wheel on a line diametrically opposite each I am enabled to greatly simplify the construction of the device, less complicated, and consequently less liable to get out of order, while the necessity of constructing the pinions of

different diameters is entirely avoided, as will be hereinafter described and claimed.

In the accompanying drawings, A B represent the two beaters adapted to revolve in opposite directions, each beater consisting of three arms, bent as shown. The arms of the outer beater, A, at their upper ends, are secured to a disk, C, which in turn is secured to the under side of a pinion, D. The disk C is preferably formed with a hub, *a*, through which passes a tubular shaft, E, and at the lower end of this shaft are rigidly secured the arms of the beater B. The tubular shaft E, at its upper end, is formed with a supporting-head, *b*, to which are secured one end of connecting brace-rods F, the opposite ends of the rods being connected to a pinion, G. The arms of the beater A, by means of the disk C, support the pinion D, while the rods F support the pinion G. These pinions, as will be seen, are of the same size, and are located one above the other on the same vertical plane, a sufficient distance from each other so as to engage the teeth of a single driving-wheel, I, at points diametrically opposite, thus dispensing with the necessity of employing two separate driving-wheels of different diameters and using pinions of unequal sizes. The wheel I is mounted on a short axle, which has its bearing in the shank *c* of a handle, K, said axle having a suitable crank-handle, *d*, for turning the wheel, and the shank having an arm or bracket, *e*, for connecting thereto one end of a stationary supporting-rod, L. This rod being stationary, it forms a support and guide for the beaters, hollow shaft, and pinions, around which they revolve, said rod passing through the shaft and through holes in the lower ends of the beaters, and being connected to the extremity of a support, M. This support is an extension of the handle K, formed by continuing the shank *c* to a point below the beaters, and bending it so as to have substantially the same curve as the beaters, said support resting in a slanting position against the side of the dish, to prevent the beaters from striking it when the device is in use.

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

1. In an egg-beater, the combination, with
a single toothed driving-wheel and a central
stationary guide and supporting-rod, of two
oppositely-revolving beaters provided with
5 pinions of equal size and arranged one above
the other and engaging with the driving-wheel
at points diametrically opposite each other,
substantially as and for the purpose set forth.

2. In an egg-beater, a single toothed driv-
10 ing-wheel, and a handle formed with a shank,
in which the shaft of the wheel has its bearing,
said shank terminating in a curved support,
in combination with a central stationary guide
and supporting-rod, connected at its lower

end to the curved support, and two oppositely- 15
revolving beaters provided with pinions of
equal diameters arranged one above the other
and engaging with the driving-wheel at points
diametrically opposite each other, substan-
tially as and for the purpose specified. 20

In testimony that I claim the above I have
hereunto subscribed my name in the presence
of two witnesses.

DANIEL B. ROCK.

Witnesses:

J. H. CUNNINGHAM,
WM. H. LOW.