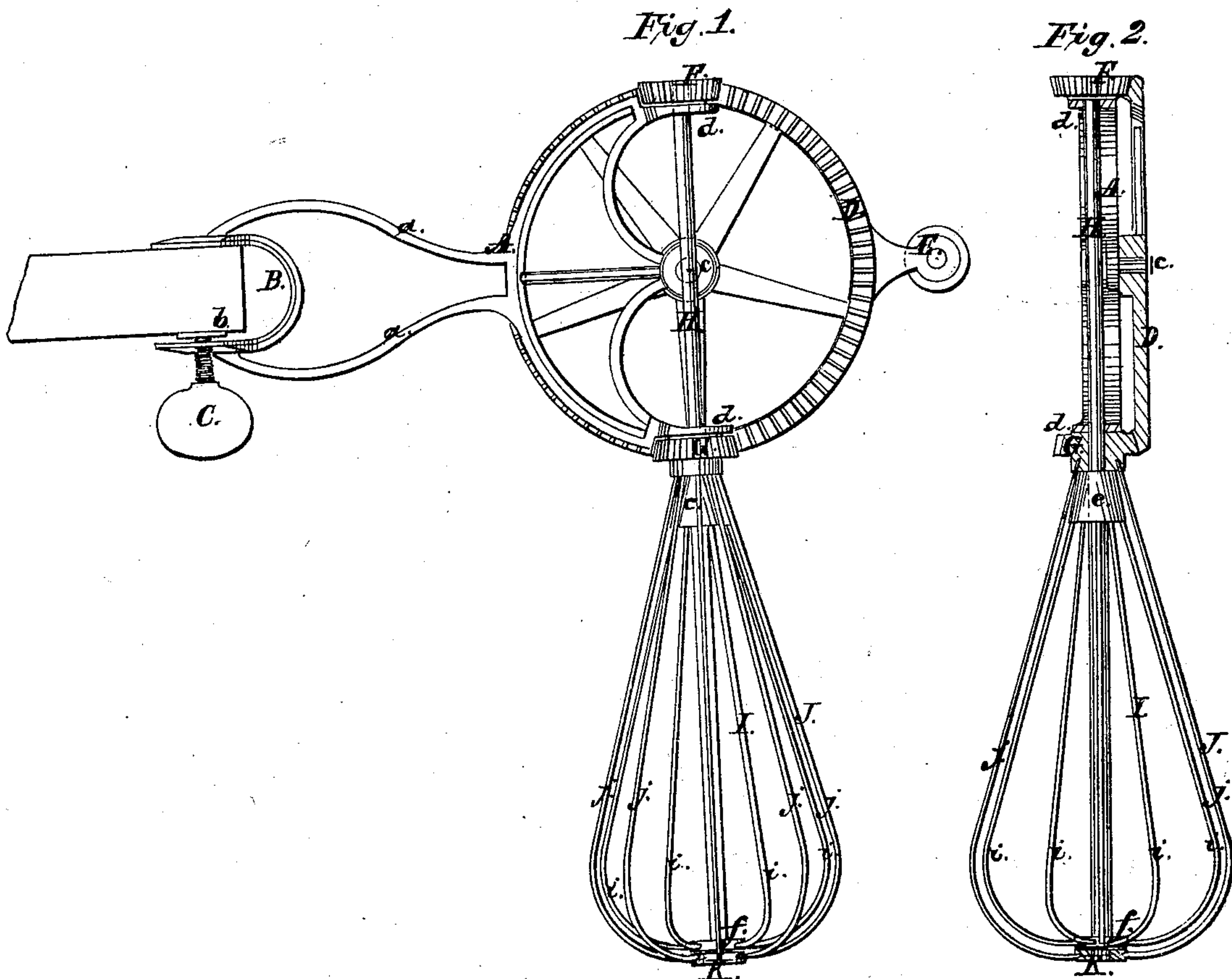


J. F. & E. P. Monroe,

Egg-Beater

N^o 23.694

Patented Apr. 19, 1859.



Witnesses

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Inventors:

James J. Monroe
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UNITED STATES PATENT OFFICE.

JAS. F. MONROE, OF FITCHBURG, MASSACHUSETTS, AND E. P. MONROE, OF NEW YORK,
N. Y., ASSIGNORS TO E. P. MONROE.

EGG-BEATER.

Specification forming part of Letters Patent No. 23,694, dated April 19, 1859; Reissued October 16, 1860, No. 1,062.

To all whom it may concern:

Be it known that we, JAMES F. MONROE of Fitchburg, in the county of Worcester and State of Massachusetts and E. P. MONROE, of the city, county, and State of New York, have invented a new and Improved Egg-Beater; and we 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, in which—

Figure 1, represents a front elevation of an egg beater constructed according to our improvements. Fig. 2, is a vertical central section of ditto.

Similar letters of reference indicate corresponding parts in the two figures.

This invention consists in arranging in an adjustable frame two beaters, one inside the other, which receive motion in opposite directions by means of two pinions which gear into a large bevel wheel and on opposite sides of the same, so that by rotating the bevel wheel by means of a handle the beaters receive the required motion.

To enable others skilled in the art to fully understand and construct our invention, we will proceed to describe its construction and operation.

A, is a frame from which two arms, *a*, extend to a fork B, which serves to fasten the frame to a table, shelf, or to any convenient place, as clearly represented in Fig. 1. A set screw C, serves to retain the frame in the required spot. In order to facilitate the turning of the screw as it comes in contact with the wood, a washer *b*, is attached to its upper end in such a manner that the screw turns in the washer, the latter remaining stationary as it is forced up against the wood. Attached to the central part of the frame A, is the bevel wheel D, by means of a pivot *c*, on which it turns quite easily and this wheel is operated by means of a handle E, which is rigidly attached to the same, and it gears in two pinions F, and G, the pinion F, being attached to an arbor H, which has its bearings in two flanges *d*, which form a part of the frame A, and rigidly attached to the lower end of this arbor is the inner beater I, which consists of a series of wires *i*, bent as clearly represented in the drawing and fastened by their upper ends to a boss *e*, and by their lower ends to a collar *f*, and both the boss and the collar are rigidly at-

tached to the arbor H. Between the boss *e*, and the lower one of the flanges *d*, and placed loosely on the arbor H, is the pinion G, which is thus situated on the side of the bevel wheel D, opposite to that occupied by the pinion F, and which serves to give motion to the outer beater J. The wires *j*, which constitute this beater, are bent in a similar manner as the wires *i*, which constitute the beater I, and they are fastened by one end to the hub of the pinion G, and by the other end to a collar K, which turns loosely over the lower end of the arbor H. By turning the bevel wheel D, therefore, the two beaters I, and J, receive motion in opposite directions.

The operation is as follows:—After the frame A, has been secured to a table, shelf, or to any other convenient part, in such a position that the beaters are in a vertical position, the vessel containing the eggs is placed under the latter and a rapid rotary motion is given to the beaters in opposite directions by means of the bevel wheel D, and it takes but a very short time to beat a large quantity of eggs with my instrument, as the effect of the same is greatly enhanced by the rapidity with which the two beaters can be operated, and the fact that they move in opposite directions.

This beater can be used with equal advantage for mixing paint or other substances which require a thorough stirring up in an open vessel in order to mix them properly, and the particular shape of the beaters and their construction of elastic wire adapt the same readily to the form of vessels commonly used for beating eggs or for mixing such substances.

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

The two beaters I, and J, constructed of wires *i*, and *j*, and arranged in the adjustable frame A, in such a manner that the same, by means of pinions F, and G and by the bevel wheel D, receive a rapid rotary motion in opposite directions, substantially as and for the purpose specified.

JAMES F. MONROE.

EDWIN P. MONROE.

Witnesses as to signature of J. F. Monroe:

C. H. B. SNOW,

J. B. GOODRICH.

Witnesses as to signature of E. P. Monroe:

WM. TUSCH,

W. HAUFF.