

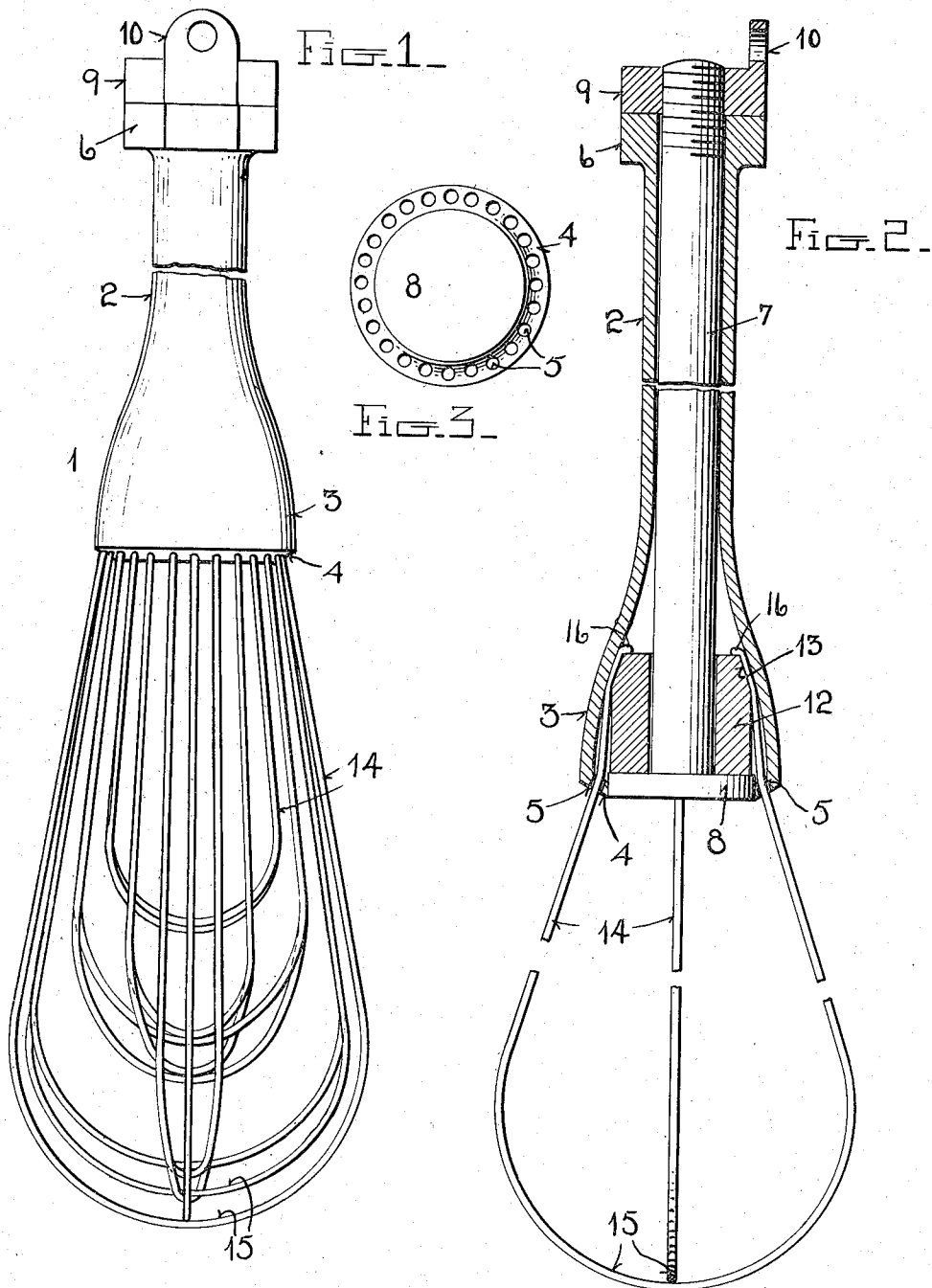
No. 866,909.

PATENTED SEPT. 24, 1907.

F. A. BRENNER.

EGG BEATER.

APPLICATION FILED DEC. 27, 1906.



Witnesses
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UNITED STATES PATENT OFFICE.

FRANK A. BRENNER, OF CLEVELAND, OHIO.

EGG-BEATER.

No. 866,909.

Specification of Letters Patent.

Patented Sept. 24, 1907.

Application filed December 27, 1906. Serial No. 349,886.

To all whom it may concern:

Be it known that I, FRANK A. BRENNER, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Egg-Beaters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 This invention relates to improvements in egg beaters.

The object of the invention is to provide a beater constructed and arranged in such a manner as to permit of the removal of a broken whip or beater wire without disturbing the rest of the whips or beaters.

15 A further object is to provide an egg beater which will be simple, strong and durable in construction, efficient in operation and well adapted to the purpose for which it is designed.

20 With the above and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts hereinafter described and claimed.

25 In the accompanying drawings:—Figure 1 is a side view of an egg beater constructed in accordance with the invention; Fig. 2 is a longitudinal sectional view, showing one beater wire or whip arranged in place and the manner in which the same is fastened; and Fig. 3 is an end view of the beater handle with the whips or beater wires removed therefrom.

30 Referring more particularly to the drawings, 1 denotes the egg beater, consisting of a hollow handle portion 2 which is preferably cylindrical in form and has on its outer end an enlarged hollow head 3. On the end of the head 3 is formed an inwardly-projecting annular flange 4 having formed therein a series of longitudinally-disposed holes 5. On the outer end of the handle 2 is formed a rectangular enlargement 6.

35 Adapted to be inserted through the hollow handle 2 is a fastening bolt 7, on the outer end of which is formed a flat circular head 8, which when the bolt is in place is adapted to fit within the opening formed by the annular flange 4 on the end of the head 3. The opposite or inner end of the bolt 7 is threaded and projects beyond the enlargement 6 on the opposite end of the handle, and on said threaded projecting end of the bolt is adapted to be screwed a clamping nut 9. Said nut 9 is adapted to be screwed down on the bolt 7 and into engagement with the enlargement 6 to draw the bolt

into the handle. On the nut 9 is formed an upwardly-projecting apertured lug or ear 10, by means of which 50 the beater may be hung up.

Arranged on the outer end of the bolt within the enlarged head 3 of the handle 2 is a cylindrical clamping block 12, the side of which adjacent to the inner end thereof is beveled to form a beater or whip clamping 55 surface 13. Adapted to be secured in the outer end of the handle 2 is a series of beater wires or whips 14, each of which is formed of a wire rod bent to form a loop 15. The inner ends of the wire rods 14 are adapted to be inserted through the apertures 5 in the flange 4 of the 60 head 3 of the handle, the inner ends of said wires 14 being bent inwardly to a slight degree, as shown at 16, said inwardly-bent ends being adapted to be engaged with the inner end of the clamping block 12. The rods 14 adjacent to the inwardly-bent ends 16 are adapted 65 to be engaged and clamped between the beveled surface 13 of the block 12 and the adjacent inner side wall of the head 3, so that when the bolt 7 is drawn inwardly by the clamping nut 9, the head 8 of said bolt will force the clamping block into the head 3, thereby 70 securely clamping or binding the inner ends of the beater wires or whips in place. There may be any suitable number of beater wires provided, twelve of the same being shown in the present instance. The ends of each wire engaged with the head 3 are inserted 75 through diametrically-opposite openings 5 in the flange 4. The beater wires are preferably arranged in pairs. The wires of each pair are of a different length from the other pairs so that when all of the wires have been secured in the handle, said beater wires will present an 80 appearance such as shown in Fig. 1 of the drawings. By thus arranging and securing the beater wires in place any one or more of the same may be removed or replaced without disturbing the rest of the wires by simply unscrewing the clamping nut 9 to loosen the 85 bolt 7 and the clamping block 12, after which a broken wire will readily drop out, the remaining wires being held in place by the spring action of the wire and the frictional engagement of the inner ends of the same with the inner wall of the head 3, as will be understood. 90

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the 95 minor details of construction may be resorted to with-

out departing from the principle or sacrificing any of the advantages of this invention, as defined by the appended claims.

Having thus described my invention, what I claim
5 as new and desire to secure by Letters-Patent, is:—

10 An egg beater comprising a tubular handle provided at its forward end with a hollow head, a clamping bolt extended through the handle and provided at its forward end with a head, a clamping block arranged on the bolt in rear of its head, a series of whips having their ends projected into the hollow head and clamped between the

wall of the latter and the clamping block and a tension nut applied to the rear end of the bolt and operable for drawing the clamping head to clamping position, said nut being provided with a perforated projection forming a 15 hanger for the beater.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FRANK A. BRENNER.

Witnesses:

E. H. ZELLER,
H. NURNBERG.