

(No Model.)

J. DE WITT HARVEY.
EGG BEATER.

No. 506,636.

Patented Oct. 10, 1893.

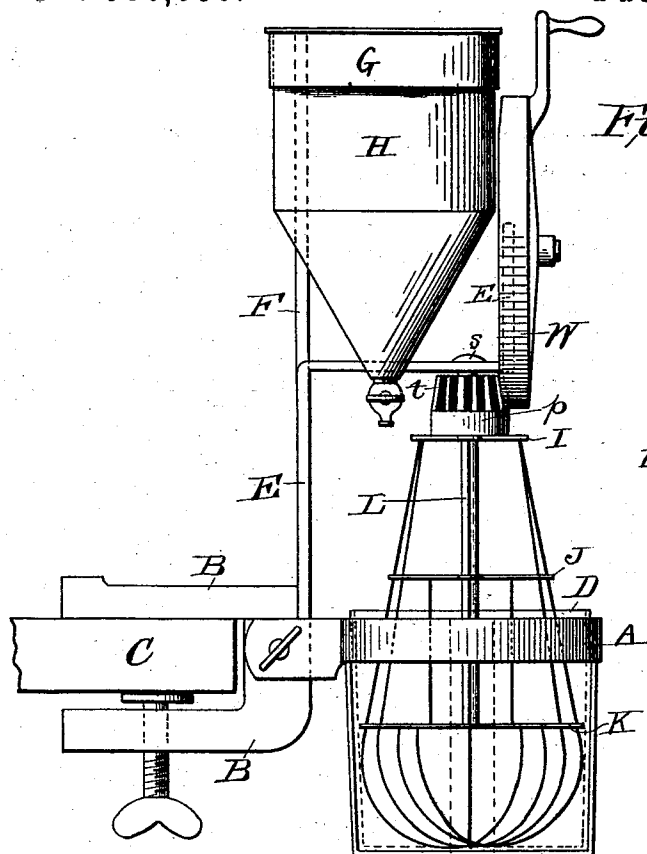


Fig. 1.

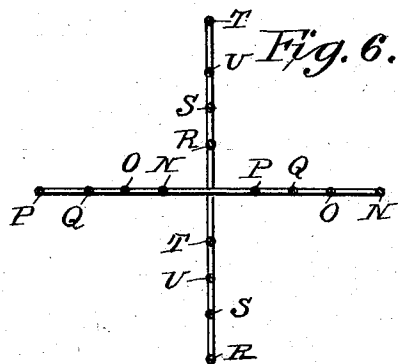


Fig. 6.

Fig. 3.

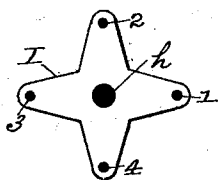
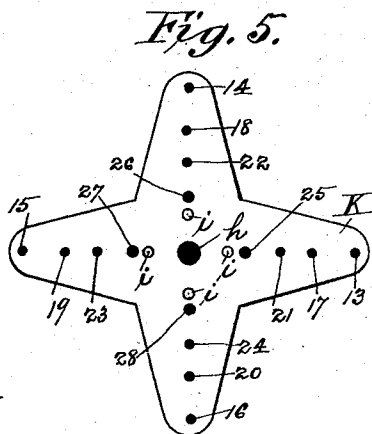
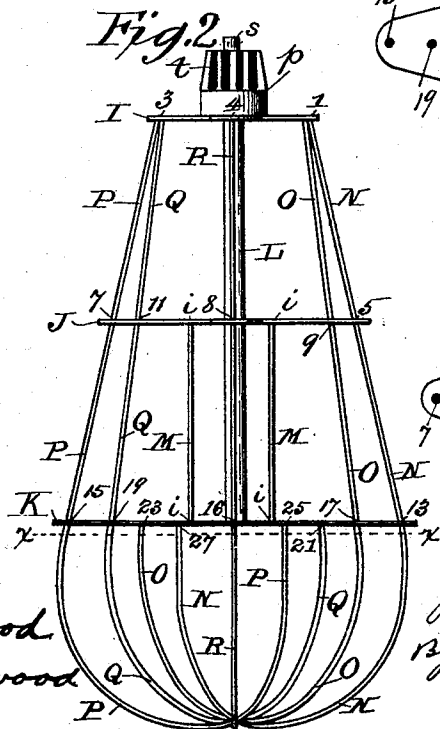


Fig. 2.



UNITED STATES PATENT OFFICE.

JENNIE DE WITT HARVEY, OF WILKES-BARRÉ, PENNSYLVANIA.

EGG-BEATER.

SPECIFICATION forming part of Letters Patent No. 506,636, dated October 10, 1893.

Application filed May 8, 1893. Serial No. 473,379. (No model.)

To all whom it may concern:

Be it known that I, JENNIE DE WITT HARVEY, a citizen of the United States of America, residing at Wilkes-Barré, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Mayonnaise-Beaters, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to a beater peculiarly adapted for use in making mayonnaise. In manufacturing this dressing it is essential that the beater should operate over the entire bottom of the cup and throughout the ingredients therein, in order to thoroughly incorporate the oil with the eggs, mustard, salt, pepper, and vinegar; and to assure this action of the beater, the beater-wires must be prevented from being spread laterally by centrifugal force, and also from being twisted out of position by the resistance of the gradually-thickening mass.

The invention will first be described in connection with the accompanying drawings, and then pointed out in the claims.

Figure 1 of the drawings is a front elevation of a mayonnaise-mixer having my improved beater. Fig. 2 is a front elevation of my improved beater proper detached. Figs. 3, 4, and 5 are, respectively, plan views of the wire-holding plates, the projection on Fig. 3 not shown. Fig. 6 is a cross-section taken on the line *x x*, Fig. 2.

Referring to Fig. 1 of the drawings, which shows a mayonnaise-mixer complete, A is the cup-holder, removably secured to a two-armed bracket B, adapted to be clamped to a table or shelf C; D, the cup; E, the support, secured at its lower end to bracket B; F, a standard, secured at its lower end to support E, and carrying a band or ring G at its upper end; and H is the oil-reservoir, carried by ring G.

The construction and combination of parts above described are included in an application for patent on a mayonnaise-mixer filed in the United States Patent Office by me on the 22d day of March, 1893, and serially numbered 467,140.

The invention herein claimed is a beater of specific construction well suited for use in

combination with the aforesaid parts, and its construction is as follows:

I, J, and K are wire-holding plates, preferably four-armed, as shown, each of these plates having a central hole *h*; and in addition to the central hole, four smaller holes *i* are formed in the intermediate and lower plates J and K, I being the upper plate. In the upper plate, which is the smallest of the three, there are four perforations, 1 2 3 4; in the intermediate plate, which is somewhat larger than plate I, there are eight perforations, 5 6 7 8 9 10 11 12; and in the lower plate, which is the largest, there are sixteen perforations, 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28.

L is a metal rod passed through the central holes *h* in all the plates and rigidly secured therein, and M are four smaller auxiliary rods rigidly secured in the holes *i* in plates J and K, the purpose of these rods being to hold the plates in position.

The beater-wires, of which I prefer to use eight, as shown, are arranged as follows: Wire N is secured at its upper end in perforation 1 in plate I, then passed through perforations 5 and 13, respectively, in plates J and K, and then at a suitable distance below the lower plate its lower end is curved upward and secured in perforation 27 in said plate. Wire O is likewise secured at its upper end in perforation 1 in plate I, then passed through plate J at 9 and through plate K at 17, its lower end being curved upward and secured in the lower plate at 23. Wires P and Q are directly opposite the ones previously mentioned, they being secured at their upper ends in perforation 3 in plate I, wire P being then passed through plate J at 7 and plate K at 15, its lower end being curved upward, crossing wires N and O, and then secured in plate K at 25. Wire Q is passed through plate J at 11 and through plate K at 19, and has its lower end secured in the lower plate at 21. Wires R and S and T and U are in a plane at right angles to wires N and O and P and Q. R is secured at its upper end in plate I at 4, passed through plate J at 8 and through plate K at 16, its lower end being secured in the lower plate at 26. S is also secured at its upper end in plate I at 4, passed

through plate J at 12 and through plate K at 20 and has its lower end secured in the lower plate at 22. Wires T and U are both secured at their upper ends in plate I at 2. T is passed through plate J at 6 and through plate K at 14, and has its lower end secured in plate K at 28. U is passed through plate J at 10 and through plate K at 18, and has its lower end secured in plate K at 24. It will thus be seen that all the wires cross each other at the lower end of the beater, and I prefer to secure them together at the point of crossing by any suitable means. On the upper side of plate I there is formed a projection *p*, having teeth *t*, with which mesh the teeth of a suitably-journaled driving-wheel W, for imparting a rotary motion to the beater, the latter being suspended from a support, as E, by a stud *s* on projection *p*, said stud being passed loosely through the support and flanged or headed.

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

1. In a beater, the combination of an upper plate, a lower perforated plate, and a plurality of wires secured at their upper ends to the upper plate, passed through the lower plate, crossed at a suitable distance below the latter, and having their lower ends secured in the lower plate.

2. In a beater, the combination of an upper plate, a lower perforated plate, a rod connecting the two plates, and a plurality of wires secured at their upper ends to the upper plate, passed through the lower plate, crossed

at a suitable distance below the latter, and having their lower ends secured in the lower plate.

3. In a beater, the combination of an upper perforated plate, a lower perforated plate, an intermediate perforated plate, a central rod connecting all the plates, a plurality of auxiliary rods connecting the intermediate and lower plates, and a plurality of wires secured at their upper ends in the upper plate, passed through the intermediate and lower plates, crossed at a suitable distance below the lower plate, and having their lower ends secured in the latter.

4. A beater comprising a perforated upper plate carrying a toothed projection and a journal-stud, a perforated lower plate, a perforated intermediate plate, a central rod connecting all the plates, a plurality of auxiliary rods connecting the intermediate and lower plates, a plurality of wires secured at their upper ends in the upper plate, passed through the intermediate and lower plates, crossed at a suitable distance below the lower plate, and having their lower ends secured in the latter, a support in which the journal-stud is revolvably secured, and a driving gear-wheel journaled to engage with the toothed projection, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JENNIE DE WITT HARVEY.

Witnesses:

THEO. REIMFELD,
W. S. PARSONS.