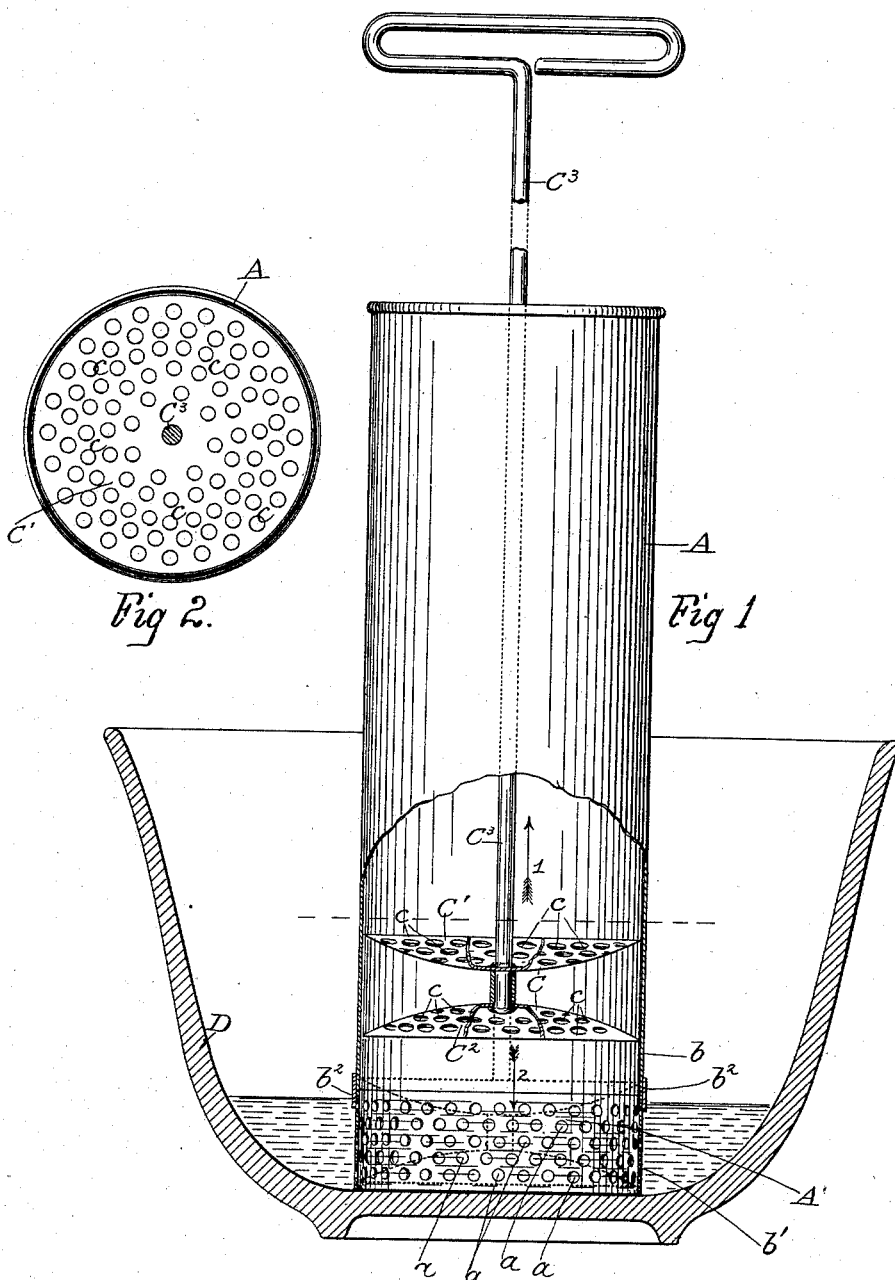


(No Model.)

A. J. SALTSMAN.
EGG BEATER, &c.

No. 522,944.

Patented July 10, 1894.



Witnesses.

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EGG-BEATER, &c.

SPECIFICATION forming part of Letters Patent No. 522,944, dated July 10, 1894.

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To all whom it may concern:

Be it known that I, AARON J. SALTSMAN, a citizen of the United States, residing at Albany, in the county of Albany and State of New York, have invented certain new and useful Improvements in Devices for Beating Eggs, Cream, &c.; and I do hereby 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.

My invention relates to improvements in egg-beaters, and consists in the combination of devices and elements hereinafter particularly described and specifically set forth in the claim.

The object of my invention is to provide a simple and efficient means for beating eggs, whipping or beating cream and mixtures of substances in fluid form often used in families, hotels, restaurants and hospitals. I attain this object by the means illustrated in the accompanying drawings forming a part of this specification, in which—

Figure 1, is an elevation, part in section, of an egg beater embodying the improvements in this invention and illustrating the same in place within a vessel for operation. Fig. 2 is a view taken in the transverse at line *xx* in Fig. 1, when the beater is removed from the vessel.

The same letters of reference refer to like parts throughout the several views.

In the drawings A represents a tube of any suitable diameter say two inches more or less, and with a length of about seven inches more or less as may be required by the capacity of the beater, for good operations. This tube A is open to its full diameter at its lower end and may be made of any suitable material such as tin or other suitable sheet metal; and it is provided in its lower end portion with two or more annular rows A' of small perforations *a a*, the lowermost row being neighboring the lower end edge of the tube with the uppermost row to such a distance above the plane of the said end edge as may bring such uppermost row of perforations below the edge of the uppermost dash disk of a series of dash-disks employed for operation within this tube A. The perforations *a a* of these

several rows A' may be made in the body of the sheet of metal forming the said tube A; yet it may be found to be advantageous to form this tube A in sections and compressed by a solid wall portion *b* for forming the main portion of the tube and a perforated wall portion *b'*, made from perforated sheet metal and having an inside diameter corresponding with the diameter of the solid wall section; these sections *b b'* may be joined together by butting their contiguous end edges against each other and securing them together by the strap *b²* soldered with the neighboring edge margins of said two sections, when the line of the inner surface of the two sections will be substantially coincident, so that the dashes may work smoothly within without liability of catching at the joined edges of the parts.

C is a reciprocating dasher, composed of the concavo-convex dash-disks C' and C² provided on the lower end of the shaft C³ and securely fixed thereto by any suitable means. These concavo-convex dash-disks have each through them a suitable number of perforations *cc* and are arranged on shaft C³, so that these convex sides will face each other while the concave side of the lower disk will face downwardly and that of the upper disk will face upwardly. The upper end of the shaft C³ is provided with a suitable handle C⁴ for convenience in operating this dasher.

D is a vessel of any suitable form and serving as a receptacle for containing the substance or materials to be beaten or whipped, or mixed together. This vessel may be made with any suitable form and of sheet metal, earthenware, or glass, or other suitable material.

When it is desired to operate this beater the lower perforated end portion of the tube A will be introduced into the vessel D, with the lower end edge resting on the bottom of said vessel and with the duplex dasher at the bottom of said tube as indicated by dotted lines in Fig. 1. The egg or eggs or cream or other materials or substance or substances, to be operated with, will be introduced into the vessel D outside the tube A, when a portion of this charge will enter within the tube through the perforations *a a*. The operator will then operate the dasher C by a recipro-

cating movement toward the bottom of vessel D as to dotted lines *d* in Fig. 1, and then upwardly to such a distance as may be found to be advantageous to draw into the tube the material outside of the same or such a portion thereof as may be desirable or of advantage in the operation. These movements of the duplex dasher alternate in directions of arrows 1 and 2 may be made to move with that degree of rapidity as may be found advantageous to be used with the substance operated with. When the material has been sufficiently beaten or whipped, the operator will gradually and slowly draw the duplex dasher C up to near the upper open end of the tube A, and then raise the tube clear and free from the vessel D, when said dasher will be moved downwardly to the lower open end of said tube, and push, thereby, the beaten material out from said open end into the said vessel and effect a full discharge to the material in a cleanly manner from the inside of said tube.

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

In a device for beating eggs, cream, &c. the combination with the tube A, having its lower end open as described, and provided in the lower end portion of its wall with two or more annular rows of perforations *a a*, of a dasher composed of the two concavo-convex dash-disks C' C², provided each with the perforations *c c*, and arranged and secured with their convex sides toward each other on the lower end of the reciprocating shaft C³, and at such a distance apart that when the edge of the lower disk is at the bottom edge of the tube A, the edge of the upper disk will be slightly above the plane of the upper annular row of perforations *a* provided in said tube, the whole capable of use within vessel D as described and removable therefrom at will, substantially as and for the purposes set forth.

In testimony that I claim the invention above set forth I affix my signature in presence of two witnesses.

AARON J. SALTSMAN.

Witnesses:

A. SELKIRK, Jr.,
ALEX. SELKIRK.