

P. L. BEAN.
BEATER AND MIXER.
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938,407.

Patented Oct. 26, 1909.

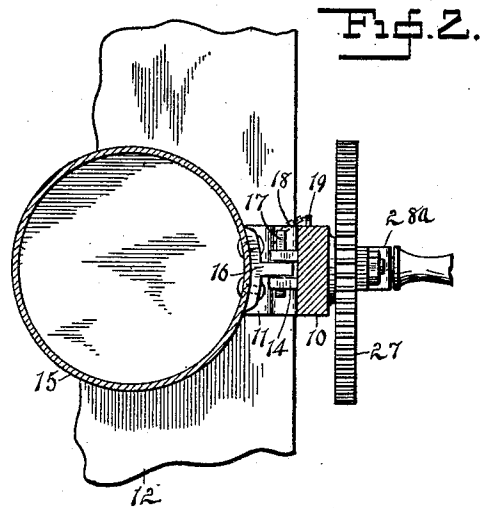
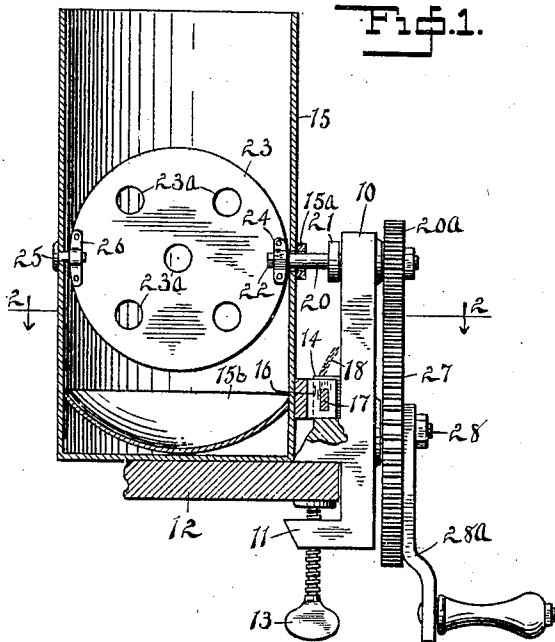


Fig. 3.

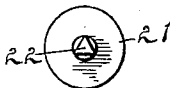


Fig. 5.

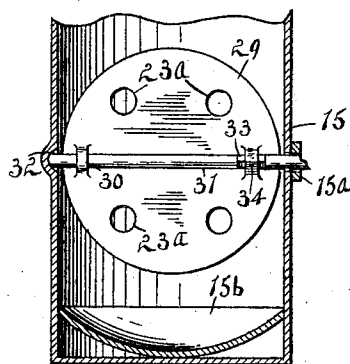


Fig. 4.

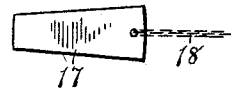


Fig. 6.



WITNESSES:

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BEATER AND MIXER.

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To all whom it may concern:

Be it known that I, PERCY L. BEAN, citizen of the United States, residing at Farmer City, in the county of Dewitt and State of Illinois, have invented certain new and useful Improvements in Beaters and Mixers, of which the following is a specification.

My invention relates to devices for agitating liquids or semi-fluid substances and refers particularly to contrivances for beating or whipping eggs, mixing cake, batter, cream and other materials employed in the culinary art.

My improved apparatus hereinafter described, has for one of its objects a mechanism so designed and constructed that the parts which come in contact with the substance to be acted upon may be dismantled for the purpose of cleaning, thus rendering it convenient to keep the apparatus in a sanitary condition.

Another useful feature is the method of coupling the receptacle to the supporting frame which permits the former to be readily detached from the frame to allow of removal of the contents or for any other purpose, the design being such that the removed parts may be quickly and easily returned to their operative position.

A further advantage will be noticed in the facility with which the entire apparatus may be clamped to a support, such as the margin of a table or shelf.

The working parts are made strong and durable and the simplicity of construction will enable the device to be economically manufactured.

I accomplish the above results by constructing my improved mixing device substantially in the form and manner illustrated in the accompanying drawing which forms a part of this application, and in which—

Figure 1 is a side elevation of my device adapted especially for use as a cake mixer, certain parts being in section. Fig. 2 is a section taken on the line 2—2 of Fig. 1; Fig. 3 is an end view of the spindle; Fig. 4 is a side view of the coupling pin or key; Fig. 5 is a fragmentary view showing a modification in the form of the spindle, and—Fig. 6 is an edge view of the beater showing the socket for the spindle end.

Referring more in detail to the drawing, the numeral 10 designates a post or bracket, the lower end of which is supplied with lat-

erally projecting jaws 11, intended to receive the edge of a table or shelf 12, a clamping screw 13, passing through the lower of said jaws to engage the support 12.

Upon the inner side of the bracket 10, just above the upper jaw 11, are two rectangular projections or lugs, 14, which are spaced apart to receive a tongue or tenon 16, which is firmly riveted or otherwise secured to the side of a cylindrical receptacle, 15. When the tongue, 16, is in position between the lugs, 14, it is firmly held therein by a wedge shaped key, 17, which is thrust laterally through rectangular apertures registering with each other, and so formed that the wedge action of the key will force the lower edge of the tongue against the bottom of the space between the lugs, 14, thus locking the receptacle in operative position. A cord or chain, 18, secured to a pin, 19, prevents loss or displacement of the key.

In the upper end of the bracket, 10, is journaled a spindle, 20, having a collar, 21, and carrying upon the outer end a pinion, 20^a, which is keyed to the spindle. The inner end of the spindle projects through a round hole in the side of the receptacle, 15, and the extremity is flattened upon three sides, thus forming a triangular, in cross-section, bearing, 22, which is received in a similarly shaped socket, formed in a box, 24, riveted to the dasher, 23. The point of the dasher diametrically opposite to the said box is supported by a stud, 25, soldered or otherwise fixed to the outside wall of the receptacle and projecting into the interior where it is journaled in a bearing, 26, secured to said dasher. The pinion, 20^a, is driven by a gear 27 journaled on a stud bolt, 28, and furnished with a crank, 28^a.

A modification of the spindle is shown in Fig. 5. In this case the spindle, 31, is elongated and runs transverse through the receptacle, passing under loops 34, 30, formed in the dasher, the extreme end having a bearing in a depression, 32, formed in the wall of the receptacle. At the place 33 where it passes beneath the loop, 34, the spindle is squared and the loop 34 is correspondingly formed to provide a socket which will prevent the spindle from turning independently of the dasher.

The parts having been assembled as shown, it is only necessary to clamp the device to a convenient support, when it will be ready for use. To remove the receptacle, the key,

17, is dislodged from the slots and the receptacle can then be slipped from the spindle, and the contents removed. To replace the receptacle the tongue, 16, and the spindle, 20, are inserted into their respective openings, care being taken that the triangular end of the spindle properly engages the socket, 22^a, and the key, 17, being pushed into its apertures, the device is in operative condition. It will thus be seen that the clamping screw, 13, need not be disturbed during the procedure, and as the receptacle is entirely dismantled from the comparatively heavy frame and gearing, it can be more readily handled than when the operative parts are non-removable.

Having now described my invention what I claim as new is—

1. In an agitating device, the combination with a supporting bracket, and a receptacle, of means for removably attaching the receptacle to the bracket, said means comprising a lug attached to the receptacle and engag-

ing a socket on the bracket, and a wedge shaped key engaging holes in the lug and socket, a dasher journaled within the receptacle, and means for operating the dasher.

2. In an agitating device, the combination with a supporting bracket and a receptacle, of means for removably attaching the receptacle to the bracket, said means comprising a tenon attached to the receptacle and engaging a mortise in the bracket, a wedge adapted to interlock with said tenon, a dasher in the receptacle, a spindle removably attached to the dasher and extending externally to the receptacle and journaled in the wall of the receptacle and in the bracket, and means for operating said spindle.

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

PERCY L. BEAN.

Witnesses:

L. R. MURPHY,
W. R. PARKER.