J. M. KIER.

CREAM WHIPPER.

APPLICATION FILED MAY 22, 1908.

913,398. Patented Feb. 23, 1909.

Fig 1.

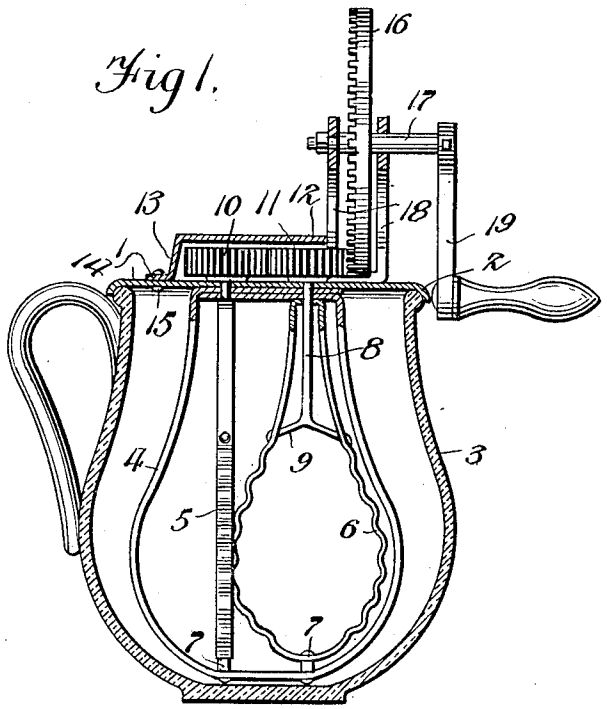
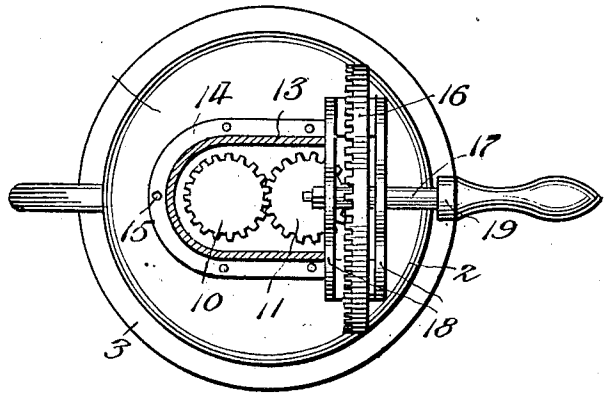


Fig 2.



Witnesses

Hugh H. Ott.

R. M. Smith.

Inventor

John M. Kier

By Victor J. Evans.

Attorney

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN M. KIER, OF DANVILLE, WASHINGTON.

CREAM-WHIPPER.

No. 913,398. Specification of Letters Patent. Patented Feb. 23, 1909.

Application filed May 22, 1908. Serial No. 434,378.

To all whom it may concern:

Be it known that I, JOHN M. KIER, a citizen of the United States, residing at Danville, in the county of Ferry and State of Washington, have invented new and useful Improvements in Cream-Whippers, of which the following is a specification.

This invention relates to cream whippers and has for its object the production of a simple, effective and durable device for the purpose stated embodying in connection with special constructed and braced beaters, and the gearing for operating the same, a cap or cover plate which forms a closure for the receptacle in which the cream is whipped and a support upon which the gearing is mounted.

With the above and other objects in view the invention consists in the novel construction, combination and arrangement of parts herein fully described, illustrated and claimed.

In the accompanying drawings, Figure 1 is a vertical sectional view showing the whipper applied to a vessel. Fig. 2 is a plan view of the same showing the gearing case in section.

The improved cream whipper comprises a cap or cover plate 1 which is preferably provided with a down-turned marginal edge 2 forming a flange to fit over the rim of a vessel shown at 3 adapted to contain the material to be operated upon.

Secured to the under side of the cap plate 1 is a pear shaped frame 4 in which are mounted two similarly-shaped beaters 5 and 6, the latter being journaled at their lower ends by means of studs 7 which connect with the bottom portion of the frame 4 as shown in Fig. 1.

The upper ends of the beaters 5 and 6 are provided with openings through which pass a pair of parallel beater actuating shafts 8 each of which is provided at its lower end with forks 9 the arms of which extend in opposite directions and are connected rigidly to the opposite portions of the respective beater as clearly shown in Fig. 1, whereby a braced connection is formed between each beater and its operating shaft which adds greatly to the life and durability of the beater as a whole.

The shafts 8 have mounted on the upper ends thereof above the cover 1, intermeshing pinions 10 and 11 which are inclosed by a gearing case consisting of a plate 12 having a marginal rim 13 extending downward therefrom and a base flange 14 which is riveted or otherwise secured to the cap plate as shown at 15.

16 designates a crown gear which is mounted on a shaft 17 journaled in oppositely arranged bearing brackets 18 secured to the cap plate 15 while the shaft 17 is provided with an operating crank 19 by means of which rotary motion may be imparted through the medium of the gearing described to the beaters 5 and 6.

It will be observed that the beaters are arranged in planes at right angles to each other as clearly indicated in Fig. 1 and they are geared together so as to always maintain the same relation to each other thereby giving increased efficiency to the beater as a whole.

Having described the invention, I claim:—

A device of the class described comprising a cap plate, a pear-shaped frame secured to said plate and extending downward therefrom, a plurality of rotary beaters journaled in said frame, beater actuating shafts extending through the cap plate and provided with intermeshing pinions, forks on said shafts having the arms thereof rigidly connected to the opposite sides of the beaters, a crown gear meshing with one of said pinions, an operating crank handle for said crown gear, and a gear case connected to the cap plate and covering and inclosing said pinions, substantially as described.

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

JOHN M. KIER.

Witnesses:
H. M. GENIN,
J. M. H. GRINNELL.