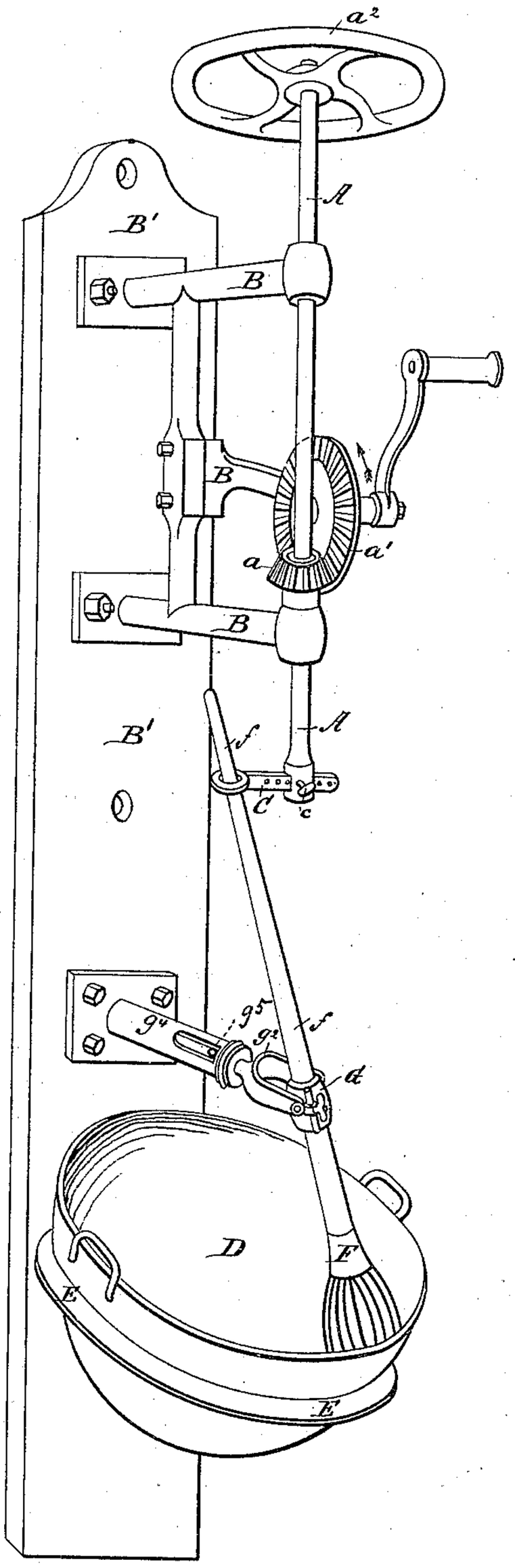
(No Model.) 2 Sheets—Sheet 1.

J., J. A. & W. K. BAKER.

WHISK OR MIXER.

No. 343,790. Patented June 15, 1886.

Fig. 1.



WITNESSES:

A. Schehl.

Harrison Gray

INVENTORS.

Joseph Baker

Joseph Allen Baker

William King Baker

BY Briesen & Steele

ATTORNEYS

(No Model.) 2 Sheets—Sheet 2.

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WHISK OR MIXER.

No. 343,790. Patented June 15, 1886.

Fig: 2.

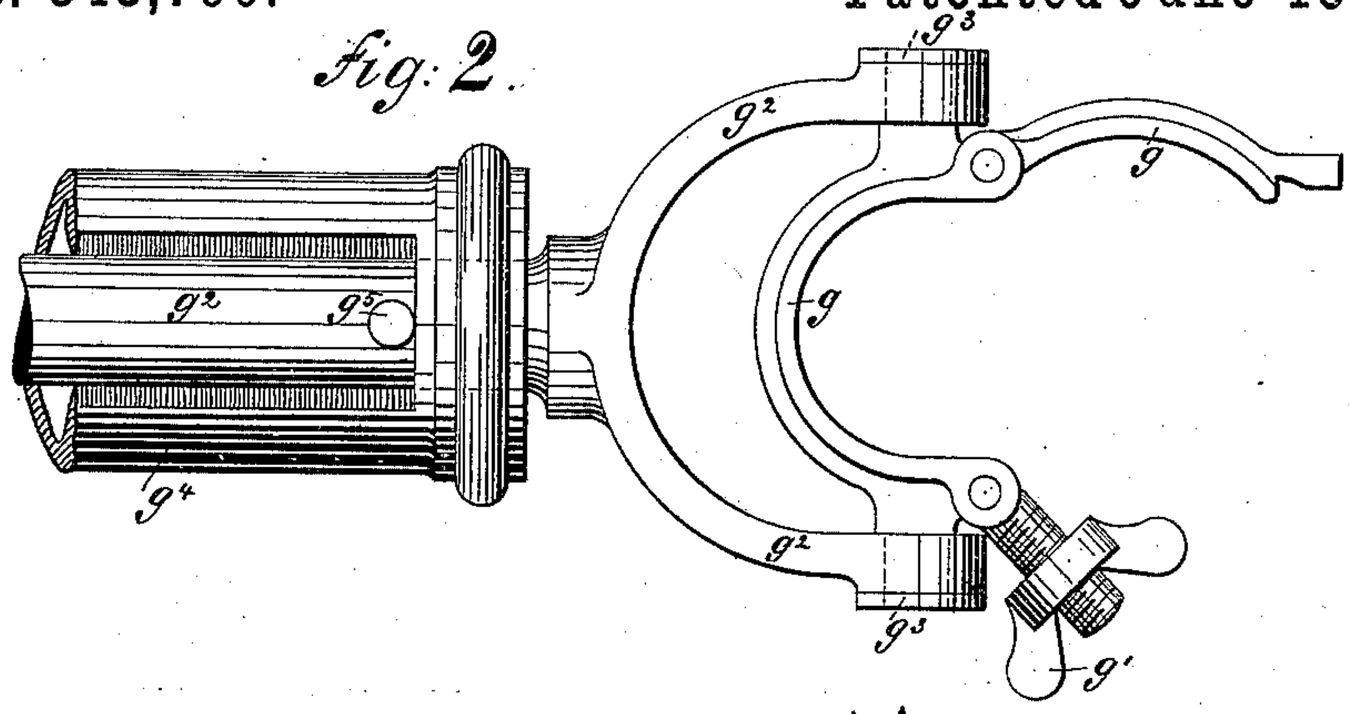


Fig: 3.

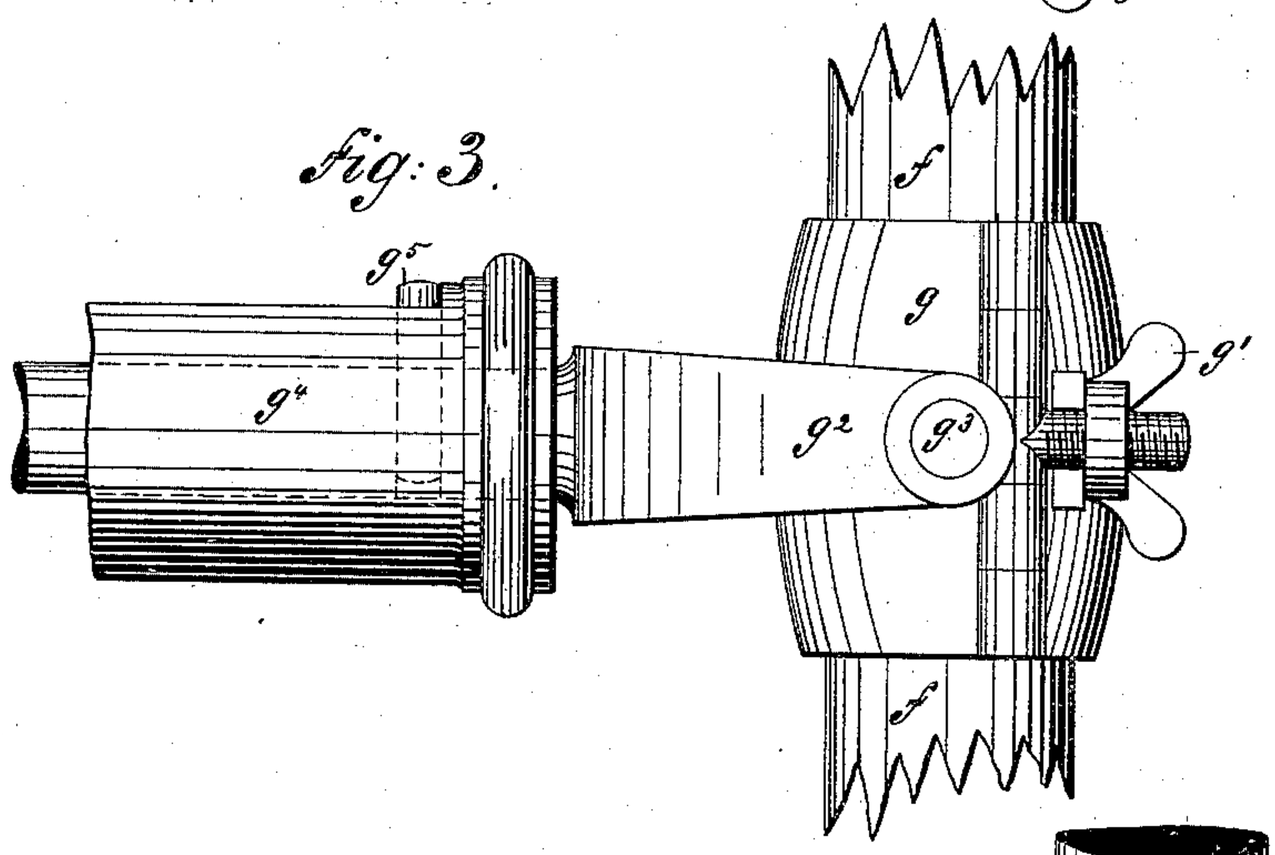


Fig: 4.

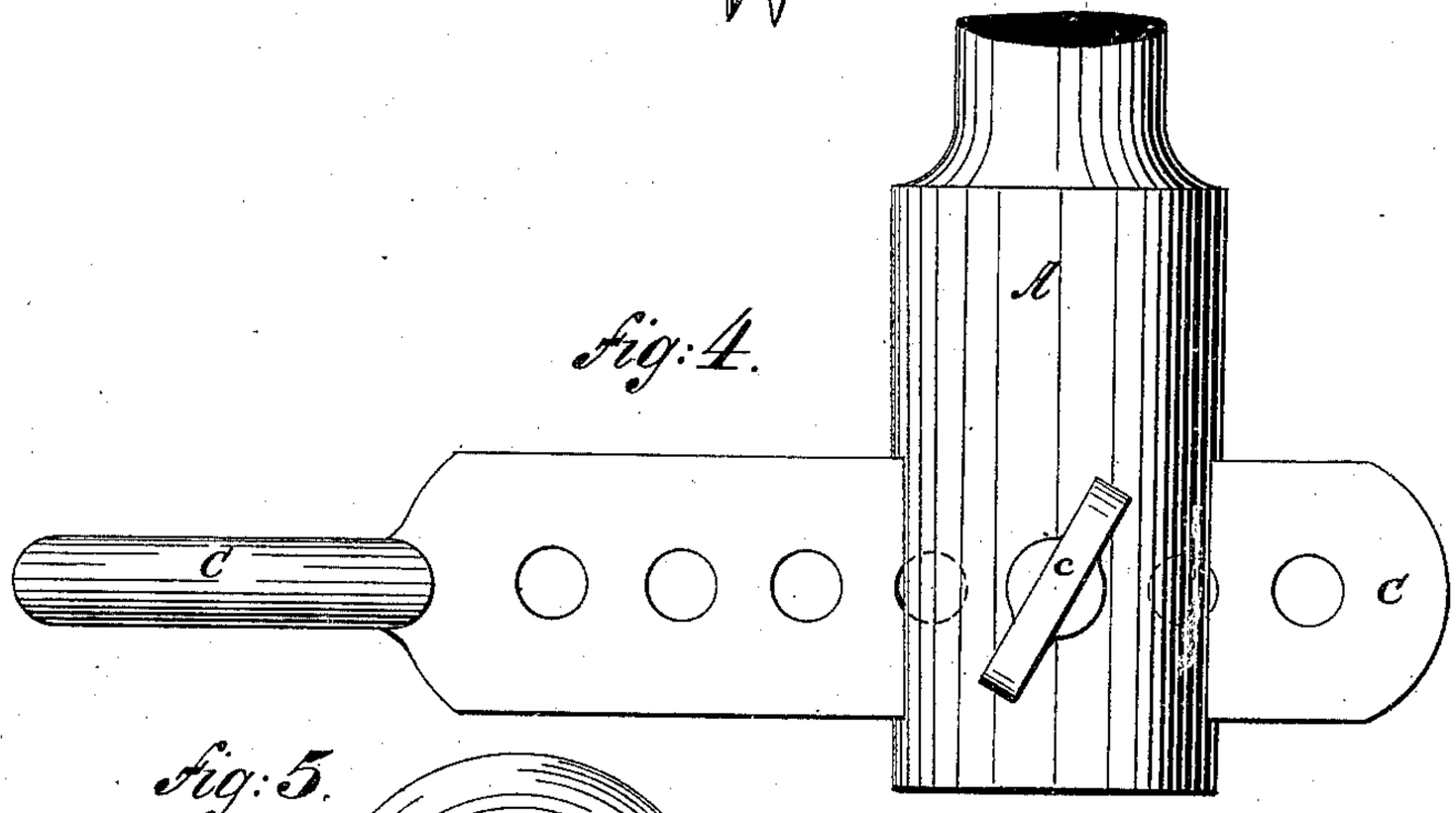
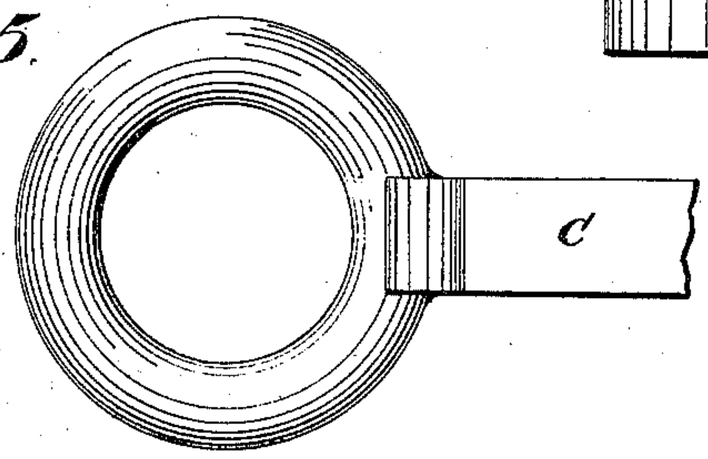


Fig: 5.



WITNESSES:
A. Schehl.
Harrison, Brock

INVENTORS
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Briesen & Steele
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEPH BAKER, JOSEPH ALLEN BAKER, AND WILLIAM KING BAKER, OF LONDON, ENGLAND.

WHISK OR MIXER.

SPECIFICATION forming part of Letters Patent No. 343,790, dated June 15, 1886.

Application filed December 8, 1885. Serial No. 185,095. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH BAKER, JOSEPH ALLEN BAKER, and WILLIAM KING BAKER, all of 58 City Road, London, England, have invented an Improved Whisk or Mixer, of which the following is a specification, reference being had to the accompanying drawings.

The object of this present invention is to furnish an improved machine for whisking, whipping, beating, or churning eggs or liquid or semi-liquid substances used in the manufacture of cakes and the like.

The machine consists of a vertical shaft driven by bevel-wheels or other means supported by suitable frame-work, which gives a rotary and oscillating motion to a beater or whisk secured in the center by a universal-joint clip or clutch, which acts as a fulcrum, thereby causing the said whisk or beater to imitate the motion of a whisk as worked by hand. The whisk or beater is worked in a bowl or pan supported in a ring-shaped frame.

The machine is illustrated by the accompanying drawings, in which Figure 1 represents a perspective view of the complete machine. Figs. 2 and 3 are details of the universal-jointed clutch. Figs. 4 and 5 are details of the ring-carrier which gives motion to the whisk.

Like letters represent like parts in all figures.

A is a vertical shaft, driven by bevel-wheel gearing *a a'*, or by other suitable means. A fly-wheel, a^2, may be keyed on the top end of shaft, for keeping up the momentum when the machine is working.

B is a suitable frame for carrying the shaft A and the gearing for driving same.

B' is a plank or plate on which frame B is fixed. The plank should be bolted to a pillar or wall.

To the lower end of shaft A is secured by means of a set-screw, *c*, an adjustable ring carrier or crank, C, which actuates the whisk or beater shown in detail in Figs. 4 and 5, of which Fig. 4 represents a side elevation of the carrier and lower end of shaft A, and Fig. 5 a plan of the ring end of carrier.

D is a bowl or pan, preferably of a semi-globular shape, in which the eggs or other material to be whisked is put.

E is a ring-shaped support fixed to plate B', for carrying pan D.

F is a whisk or beater, the lower or beating end of which works in the bowl D, while its handle end *f* is carried around the end of the shaft A in the ring-carrier C. The center of the whisk-handle *f* is held in the clip G, as shown. When the whisk is moved by the revolving shaft A, it gives the material a whisking similar to a hand-whisk; but as the whisk is worked much more rapidly the work is done very much quicker and better with small amount of labor.

The clip G, for holding the center of the whisk-handle, is shown clearly in detail in Figs. 2 and 3, in which *g* represents the jointed ring that embraces and holds the whisk-handle, the said ring being made in parts to enable it to be opened, as in Fig. 2. A screw and nut, *g'*, pivoted to the fixed arm of the ring *g*, hold the parts of this ring together on the handle *f*, as in Fig. 3, by the screw entering a slot in the end of the free arm of said ring. The ring *g* being of this form, it will be seen that it will fasten the handle of the whisk securely at any point, although the handle may vary slightly in size at various points.

The ring *g* is provided with trunnions g^3, which are pivoted in a fork-shaped piece, g^2, the stem of which in turn is hung in the supporting-tube g^4, which is attached to the plank B'. A pin, g^5, projects from the shank or stem of the fork g^2 into a slot of the tube g^4, and limits the rotation of the fork g^2.

The carrier C is fixed in any position by means of the set-screw *c*, thus enabling the operator to use a small or large pan, as he wishes, and by fixing the whisk F lower or higher, as wanted, he will be able to do a small or large quantity in the same bowl.

Having now described the nature of our said invention and in what manner the same is to be performed, we do not broadly claim uniting a whisk or mixer with a rotating crank and holding it by a universal joint, nor do we claim a clamp having a jointed ring hung in a forked holder; but

What we do claim is—

1. The whisk or mixer F, held at or near its middle by universal joint G, in combination

with the rotary shaft A, having the adjustable crank C and clamping-screw *c*, substantially as herein shown and described.

2. The combination of the whisk F with the sectional ring *g*, having trunnions g^3, fork g^2, slotted tube g^4, pin g^5, ring carrier or crank C, and shaft A, all substantially as herein shown and described.

In witness whereof we, the said JOSEPH BAKER, JOSEPH ALLEN BAKER, and WILLIAM KING BAKER, have hereunto set our hands this 23d day of October, in the year of our Lord 1885.

JOSEPH BAKER.
JOSEPH ALLEN BAKER.
WM. KING BAKER.

Witnesses:
ARTHUR W. MCLELLAN,
SYDNEY CLARKE HOOK.