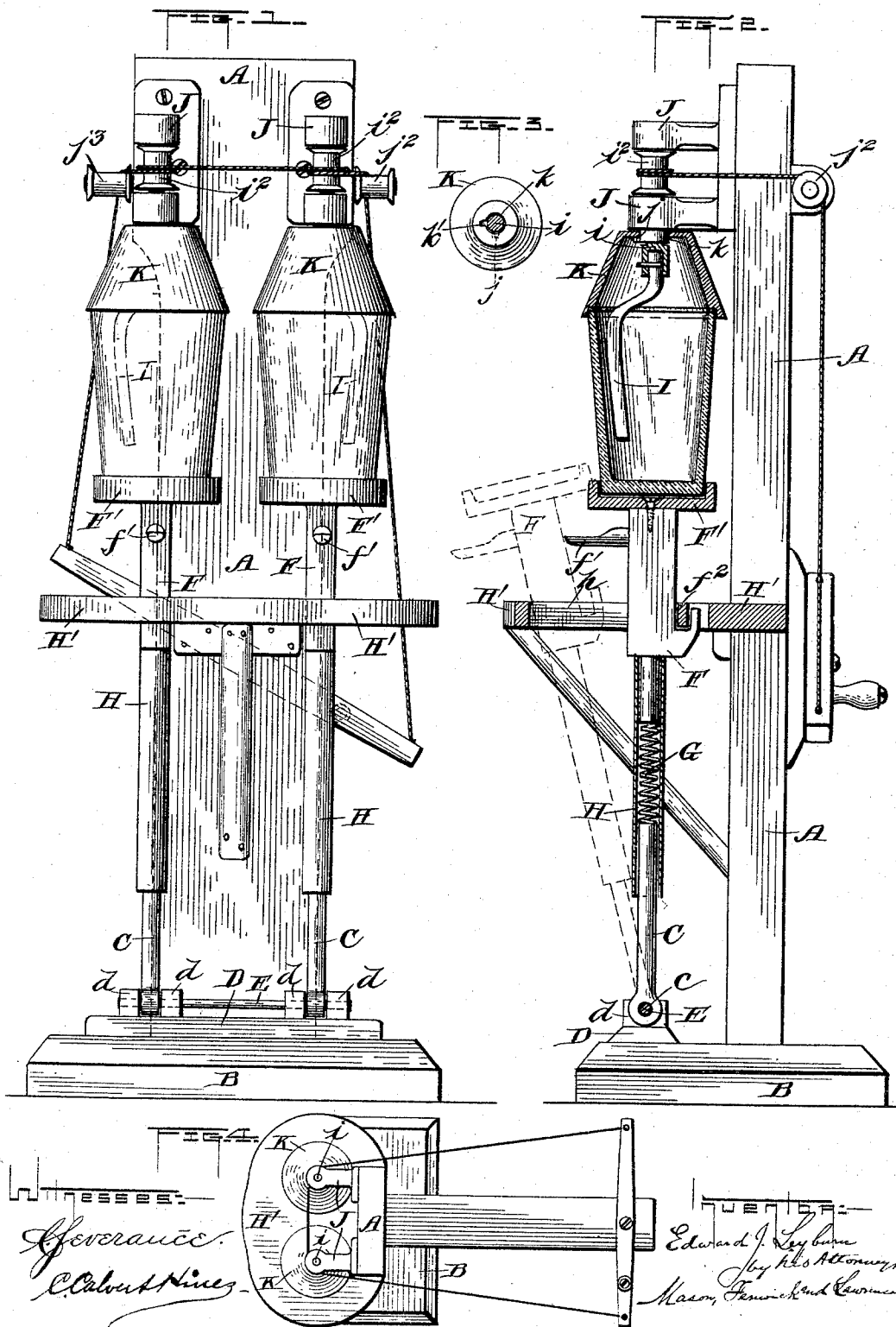


(No Model.)

E. J. LEYBURN.
DRINK MIXER.

No. 489,821.

Patented Jan. 10, 1893.



UNITED STATES PATENT OFFICE.

EDWARD J. LEYBURN, OF LEXINGTON, VIRGINIA.

DRINK-MIXER.

SPECIFICATION forming part of Letters Patent No. 489,821, dated January 10, 1893.

Application filed September 17, 1892. Serial No. 446,218. (No model.)

To all whom it may concern:

Be it known that I, EDWARD J. LEYBURN, a citizen of the United States, residing at Lexington, in the county of Rockbridge and State of Virginia, have invented certain new and useful Improvements in Drink-Mixers; 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 liquid or drink mixers especially adapted for making what is known as milk shake and egg phosphates, though it can also be employed in the kitchen for mixing or stirring eggs, and it consists in certain novel constructions, combinations and arrangements of parts as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a front elevation of my improved machine and showing all the parts in operative condition. Fig. 2 is a vertical section through the machine taken at right angles to Fig. 1, one position of the machine being shown by dotted lines. Fig. 3 is a detail view of the top portion of the cover for the liquid receptacle, and Fig. 4 is a top view of the machine showing a slight modification of the means for operating the stirrer or mixer blades.

A in the drawings represents a vertical post or standard which is mounted on a suitable supporting base B. Rods C are connected to the base by means of a journaled plate D, which latter is screwed to the base and is provided with bifurcated, upwardly extending projections or ears *d* in which the lower ends of the rods are journaled by means of the rod E passing horizontally through the same, as clearly shown.

I have shown the machine constructed to stir or mix the contents of two glasses, but it is obvious that it can be readily adapted to operate upon a single glass, and as the parts are simply duplicated a description of one will suffice for both.

The tumbler support consists, preferably, of an upper and a lower member, the lower member being journaled at its lower end, whereby a lateral movement of the same is permitted, and the upper member provided

with a tumbler receptacle and having a vertical and lateral movement. The rod C which forms the lower member of the tumbler support is provided with an eye *c* at its lower end through which the rod E passes, the rod C extending upward a suitable distance as shown. The upper member F is provided at its upper end with a tumbler receptacle F', and just beneath the tumbler receptacle, with a handle *f'* by which the said member and the glass or tumbler resting thereon can be lowered and swung forward and the tumbler removed. The lower end of the upper member of the tumbler support is made sufficiently small to enter an outer inclosing and containing tube G while the upper end of the tube bears against the under side of the enlarged portion of the upper member of the tumbler support and on its rear side it is provided with a locking device which, when the rod C is brought to a vertical position and the tube G fully raised, rests behind a stop *f*² and holds the tumbler support and rod C in that position and prevents them from moving outward as clearly shown in full lines in Fig. 2. The spring H always exerts an upward pressure upon the upper member of the tumbler support and keeps said member in a normally raised condition.

H' represents a platform which is provided with a long slot *h* in which the upper member F' of the tumbler support is adapted, by reason of the rod C being journaled at its lower end, to have a lateral movement and by reason of the spring to have an upward vertical movement which permits the tumbler to be lowered to clear the stirrer blade I, and to be swung forward for ready removal, as clearly shown in dotted lines in Fig. 2. The stirrer or mixer consists of a single blade I which is provided with vertical attaching portion and is made to conform to the shape of the inner sides of a tumbler by being approximately bent outwardly at its upper part and extended downwardly on a straight inwardly bent line and slightly bent inward and upward at its lower end to have a scooping action. This stirrer blade is secured at its upper end to a vertical revoluble shaft *i* which latter is provided with a pulley *i*² secured in a bracket J on the upper end of the vertical standard A. K is a cup or cover which may be of any suit-

able shape and provided with a central opening k , in the periphery of which is a notch k' for a purpose hereinafter specified. The cover is also provided on its lower edge with
 5 an annular recess to receive a flat rubber or leather gasket so as to form a liquid tight joint between the glass and cover at this point. The cover is slipped over the stirrer blade up to the underside of the bracket J
 10 and the notch k' passed over a pin or projection j in the bracket and the cover slightly turned whereby it is held in position. By this construction the cover is readily removable for the purpose of cleaning and can be
 15 simultaneously removed and put on with the tumbler, if desired.

The mechanism shown in the drawings for stirring or mixing the liquid is adapted to operate upon the contents of two glasses, and
 20 consequently two brackets J instead of one, are provided on the upright standard and a pulley j' journaled in each.

In Figures 1 and 2 I have shown an operating lever centrally pivoted on the back of
 25 the upright standard A and a suitable knob or handle provided on the same, and a cord attached to one end of the lever, extended upward and passed over a horizontal pulley j^2 in the standard, from there over and around
 30 the two vertical pulleys j' in the brackets J, back over another horizontal pulley j^3 in the standard and then extended downward and secured to the opposite end of the operating lever. Thus by vibrating the lever up and
 35 down a rotary motion will be imparted to the stirrer blades.

In Fig. 4 I have shown a slight modification in the mechanism for operating the stirrer blades which dispenses with two of
 40 the pulleys. It consists in securing an arm to the top of the upright standard A and extending it rearwardly a short distance and centrally pivoting to this arm a lever. A cord is secured to one end of the lever, passed
 45 around the two pulleys and secured to the opposite end of the lever, whereby by giving the lever a horizontal swinging movement a rotary motion is imparted to the stirrers.

What I claim as my invention is:—

50 1. In a drink mixer, the combination of a suitable supporting frame, a support for the tumbler which has a vertical and lateral

movement, a suitable stirrer and means for operating the same, and a stationary stirrer support which is disconnected from said tum- 55
 bler support, substantially as described.

2. In a drink mixer, the combination of a suitable supporting frame, a support for a tumbler having a lateral movement and a rod pivoted at its lower end, a spring for auto- 60
 matically raising the tumbler support and holding it in position, a suitable stirrer and means for operating the same, and a stationary stirrer support which is disconnected from said tumbler support, substantially as 65
 described.

3. A drink mixer comprising in its construction a suitable supporting frame, a vertically and laterally moving tumbler support provided with means for locking the same 70
 against lateral movement, a spring for holding the tumbler in a normally raised position, a stirrer and means for operating the same, substantially as described.

4. In a drink mixer, the combination of a 75
 suitable supporting frame provided with a horizontal slotted platform, a support for the tumbler composed of an upper and lower member, the upper member provided with a lock and adapted to have a vertical and lateral 80
 movement in the slotted platform, and the lower member journaled at its lower end whereby it is adapted to have a lateral movement, a suitable stirrer and means for operating the same, substantially as described. 85

5. In a drink mixer, adapted to stir the contents of two or more tumblers, at a single operation, tumbler supports, and means for operating the two stirrers at a single operation, which latter comprises in its construction 90
 a horizontally arranged pivoted operating lever, vertically arranged pulleys having stirrers secured thereto, an operating cord passed around the pulleys and secured by its end to the lever, whereby by operating the lever a 95
 rotary movement is imparted to the stirrer, substantially as described.

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

EDWARD J. LEYBURN.

Witnesses:

S. P. FIGGAT,
 C. M. FIGGAT.