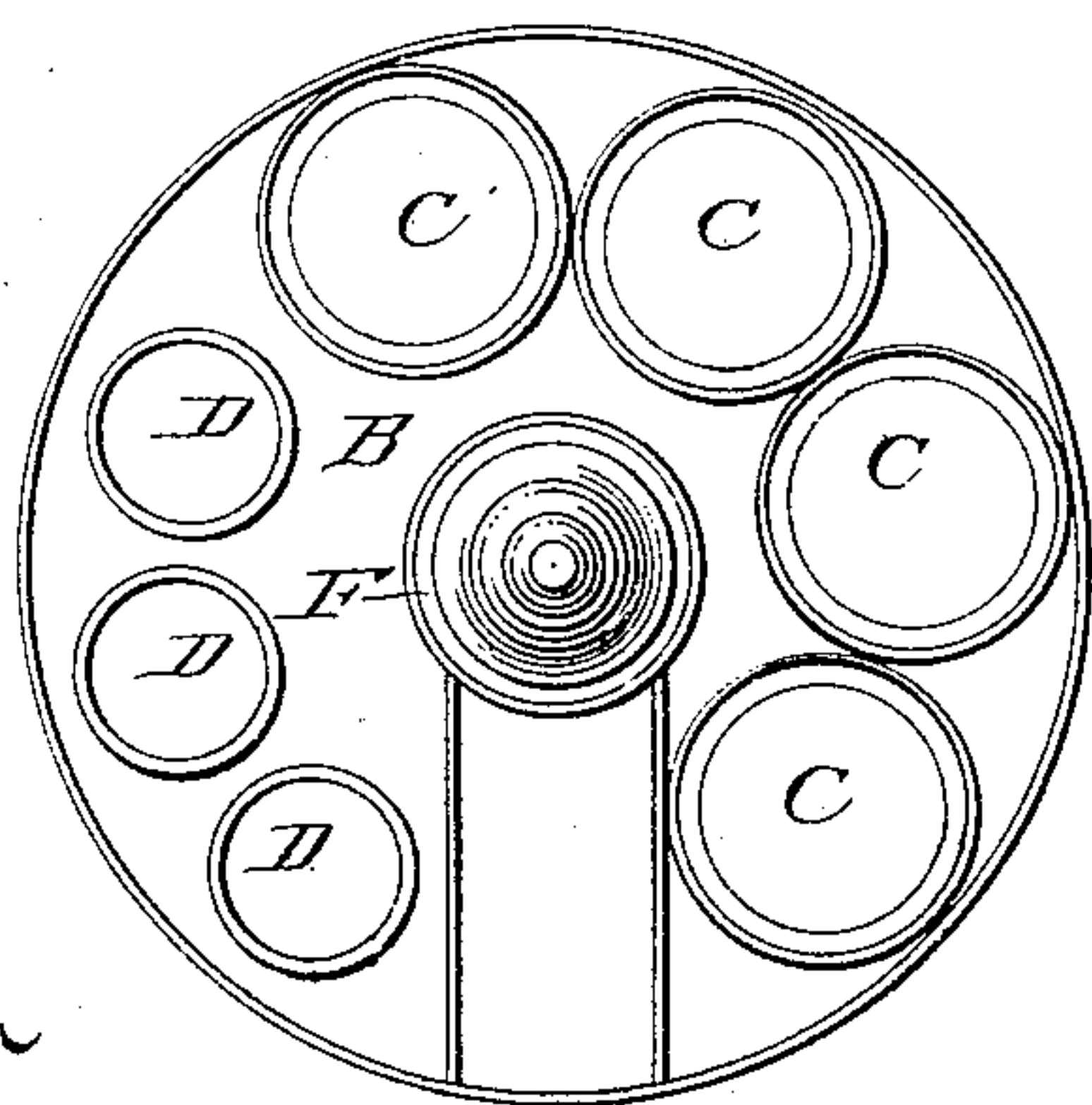
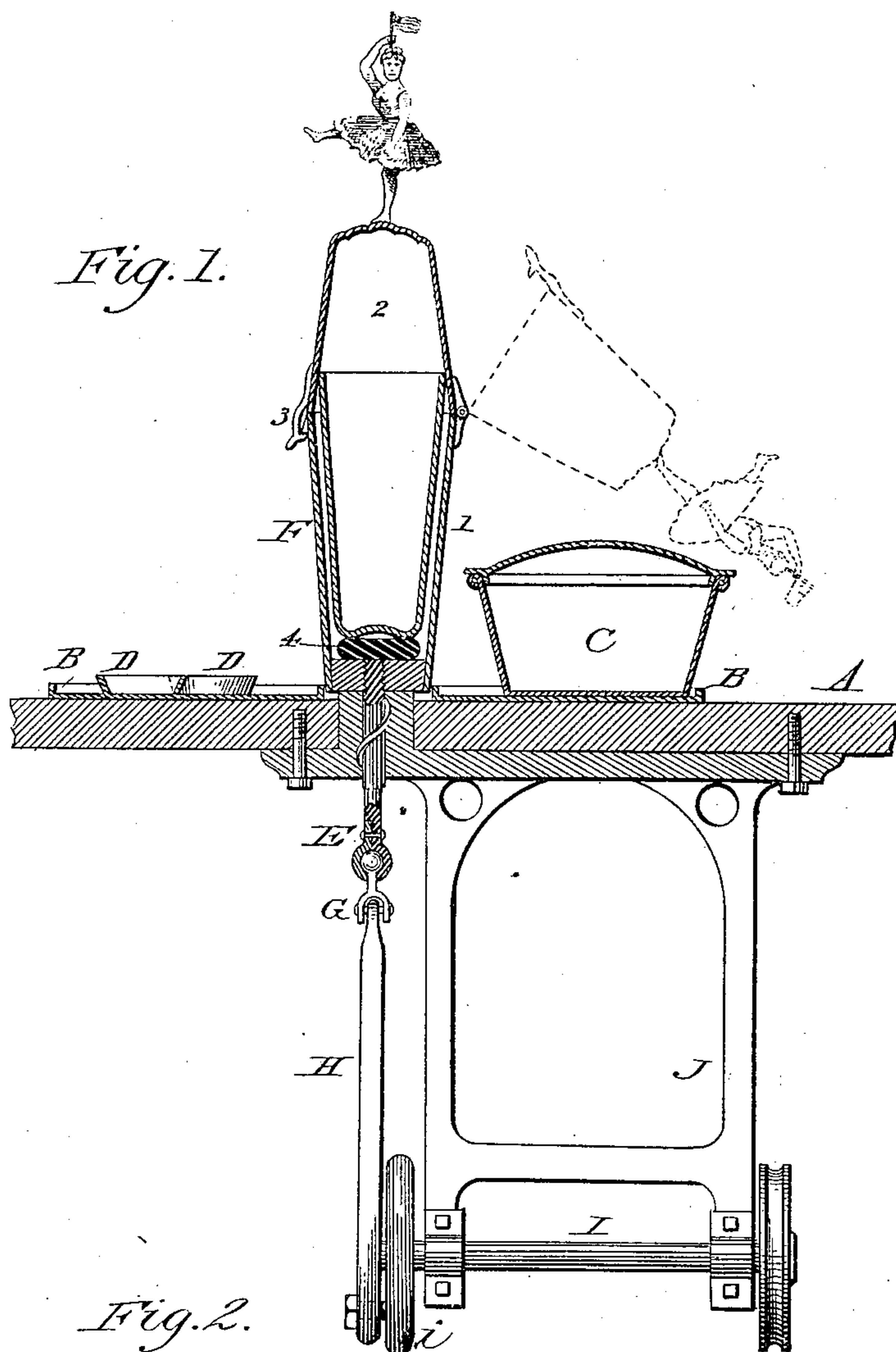


(No Model.)

C. COLLINS.  
SHAKING APPARATUS.

No. 350,811.

Patented Oct. 12, 1886.



*Witnesses:*

*John C. Hemon*

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# UNITED STATES PATENT OFFICE.

CHARLES COLLINS, OF DOCTOR TOWN, GEORGIA.

## SHAKING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 350,811, dated October 12, 1886.

Application filed April 2, 1886. Serial No. 197,529. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES COLLINS, of Doctor Town, in the county of Wayne and State of Georgia, have invented a new and  
5 useful Improvement in Shaking Apparatus, of which the following is a specification.

My invention is an improved shaking apparatus; and it consists in certain novel constructions and combinations of parts, as will  
10 be hereinafter described.

In the drawings, Figure 1 is a vertical section of an apparatus constructed according to my invention, and Fig. 2 is a top plan view of same.

15 In use the several parts of my apparatus are fixed to or rested on a support, A, which may be the top of a counter, table, bench, or other suitable convenient object. On this support I place the tray B, which is provided  
20 with boxes or receptacles C, which may have covers, as shown, and which serve to contain sugar, lemons, pineapple, cracked ice, and other material which may be needed in the preparation of the drink. I also provide this  
25 tray with rests D for glasses. An opening is formed centrally through the tray B and the support A for the passage of the plunger-rod E, on the upper end of which I support the carrier F, for the glass containing the mix-  
30 ture to be shaken. This carrier is formed with a lower section, 1, into which the glass sits, and a cover-section, 2, connected with and removable from over the lower section. In the construction shown, and as is preferred,  
35 the cover-section is hinged at one edge to the lower section, and is provided at its opposite edge with a clasp, 3, arranged to engage a suitable projection on the lower section.

40 In Fig. 1 I show a glass in place in the carrier, the latter being closed in full and open in dotted lines.

In order to hold the rim of the glass in close contact with the cover-section, to prevent leaking, I provide an elastic cushion, 4, in the  
45 bottom of the lower section, and on which the glass rests. This elastic cushion is preferably a block of rubber, as shown.

To the carrier is connected the plunger-rod G, which in turn is connected with one end  
50 of the pitman H, the opposite end of which

connects with a crank, i, on shaft I. This shaft in the construction shown is journaled in a bracket, J, depending from the support. The shaft may be driven by a belt passed over a pulley on such shaft, and driven by an elec-  
55 tric motor, or other motor, or by a treadle operated by the foot. When the shaft is revolved, the plunger-rod will be rapidly reciprocated, giving the desired shaking motion to the carrier, thereby mixing the lemonade or other  
60 drink.

It is manifest that the form of latch for securing the cover on the lower portion of the carrier may be varied without departing from  
65 my invention.

It is preferred to form the plunger-rod G with a spiral thread, as shown, or with a spiral groove, if desired, fitting a corresponding  
70 formation in the plate, through which it moves, forming a spiral bearing, so that as the plunger-rod is moved longitudinally it will be given a partial rotary movement, so that a greater agitation of the contents of the glass is secured.

It will be seen that the tray may be revolved  
75 to bring its different cups opposite the operator at will, and where desired such tray may be provided with casters to facilitate such turning.

Heretofore machines for mixing liquids  
80 have been designed in which a glass holder or receptacle is attached to a slide working in a guide and connected with a fly-wheel mounted on a revolving shaft; and I do not broadly claim such construction as my inven-  
85 tion; but

What I claim is—

1. In a shaking apparatus, a carrier comprising a lower section, a cover-section, and a cushion arranged to bear between the lower  
90 section and the bottom of a glass, whereby to force the mouth of said glass snugly against the cover, substantially as set forth.

2. The combination, in a shaking apparatus, of the frame or plate having an opening, the  
95 plunger-rod, movable, and having a spiral bearing in said opening, and provided with a glass-carrier, substantially as set forth.

3. In a shaking apparatus having a reciprocating carrier, a tray having a central open-  
100



ing for the passage of said carrier, and provided with a series of receptacles or compartments, substantially as set forth.

4. The combination, in a shaking apparatus, of the carrier having a plunger-rod, the framing having guides therefor, the crank-shaft, and the pitman connected with said shaft,

and having a universal joint with the plunger-rod, whereby the latter is free to rotate, substantially as set forth.

CHARLES COLLINS.

Witnesses:

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