H. A. CLARK.

SANITARY LOAF SUGAR DISPENSER.

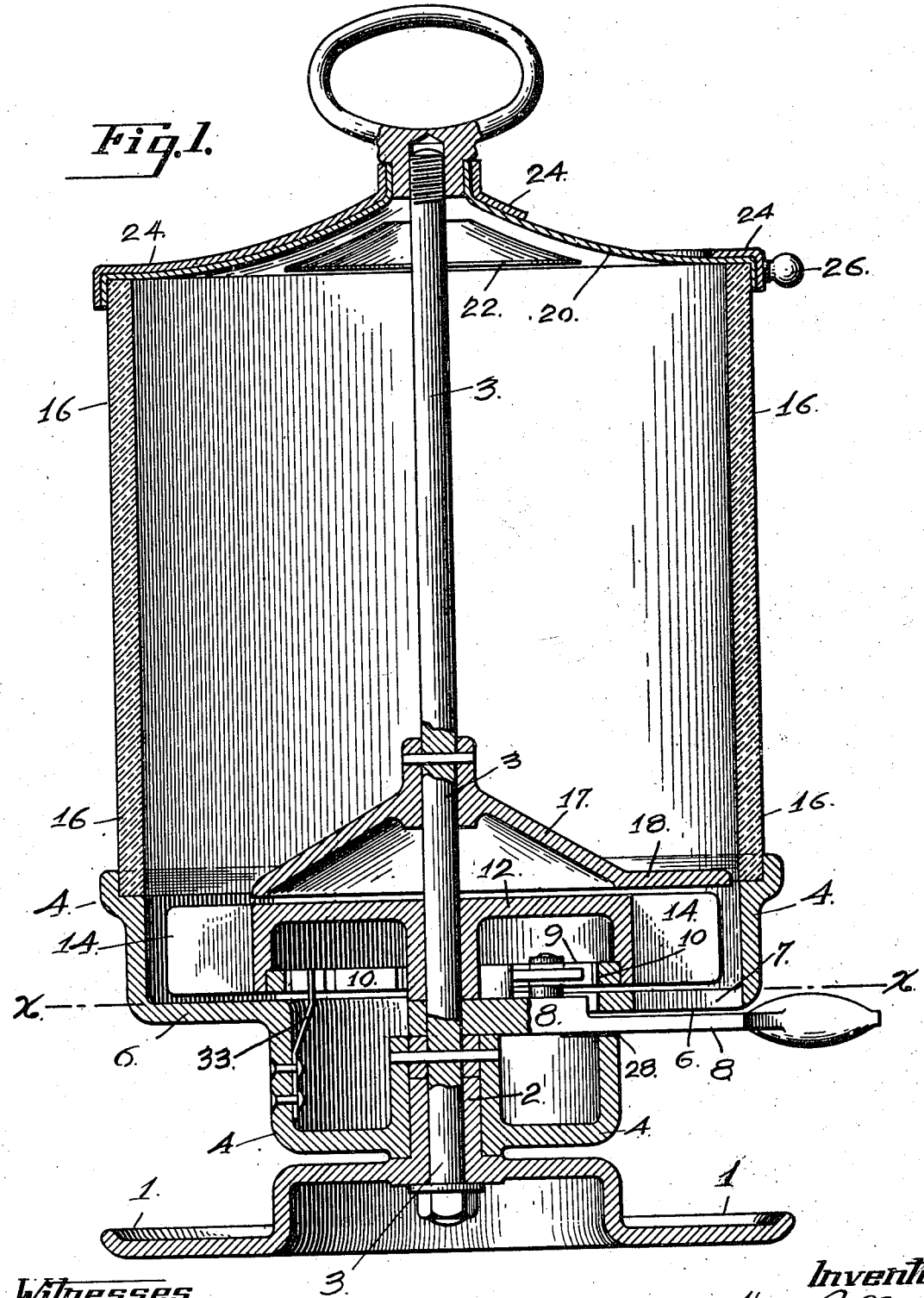
APPLICATION FILED FEB. 10, 1915.

1,184,074.

Patented May 23, 1916.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses

George Kenney.

Karl F. Schultz

Inventor

Harry A. Clark

By Arthur L. Slee

His Atty.

H. A. CLARK.

SANITARY LOAF SUGAR DISPENSER.

APPLICATION FILED FEB. 10, 1915.

1,184,074.

Patented May 23, 1916.

2 SHEETS—SHEET 2.

Fig. 2.

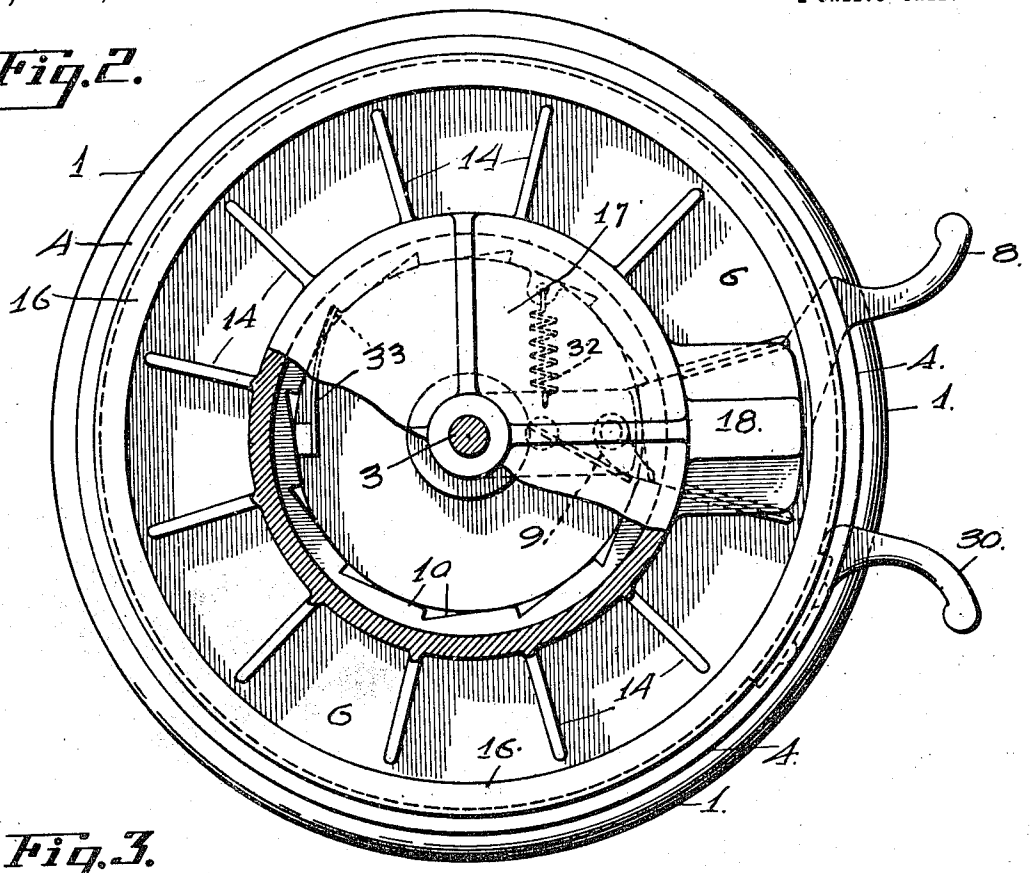
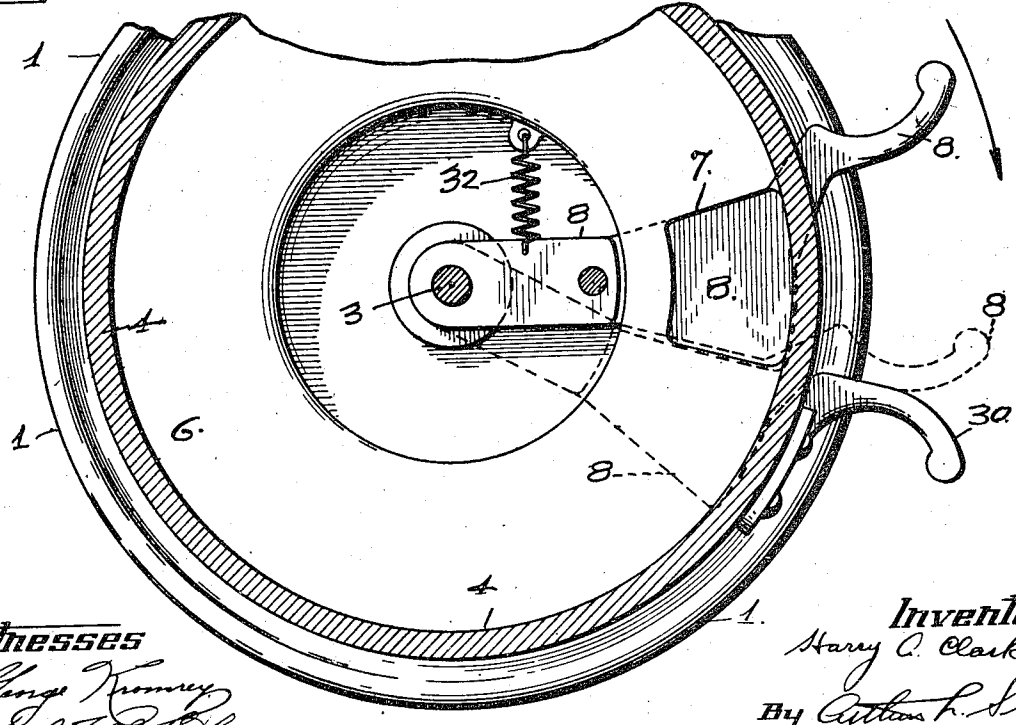


Fig. 3.



Witnesses

Geo. Kromer

Karl F. Schultz

Inventor

Harry C. Clark.

By Arthur L. Slee

His Atty.

UNITED STATES PATENT OFFICE.

HARRY A. CLARK, OF CROCKETT, CALIFORNIA.

SANITARY LOAF-SUGAR DISPENSER.

1,184,074. Specification of Letters Patent. Patented May 23, 1916.

Application filed February 10, 1915. Serial No. 7,279.

To all whom it may concern:

Be it known that I, HARRY A. CLARK, a citizen of the United States, residing at Crockett, in the county of Contra Costa and State of California, have invented new and useful Improvements in Sanitary Loaf-Sugar Dispensers, of which the following is a specification.

My invention relates to improved sanitary loaf sugar dispensers of the character disclosed in my Patent No. 1125653, patented January 19, 1915; and the objects of the present invention are first, to provide an improved sugar dispenser having few parts and one that may be easily filled without dismembering the device; second, to provide improved means for preventing the handling of loaf sugar; third, to provide improved means for dispensing one loaf of sugar at a time; fourth, to provide improved means for automatically replenishing an empty compartment from the bowl above it after the said compartment has been moved away from an aperture through which it has dispensed a loaf of sugar; and fifth, to provide improved means whereby the aperture through which the sugar is dispensed is normally closed, so as to prevent the entrance of flies or other insects. I accomplish these several features by means of the device disclosed in the drawings forming a part of the present specification, wherein like characters of reference are used to designate similar parts throughout the said specification and drawings, and in which—

Figure 1 is a vertical sectional view disclosing the stationary base, the rotatable body mounted thereon, the stationary annular shelf below the drum having the vertical flights thereon, and the means for partially rotating the drum, Fig. 2 is a broken plan view with the cover removed, disclosing the arrangement of the flights and the internal inclined teeth on the drum, and Fig. 3 is a horizontal sectional view taken on line X—X of Fig. 1 of the drawings, disclosing the aperture in the annular shelf and the manner in which the said aperture is normally closed by means of the operating lever.

Referring to the drawings, the numeral 1 is used to designate a suitable stationary base plate having a tubular extension 2 within which is rotatably mounted a vertically disposed shaft 3. Rotatably mounted upon the tubular extension 2 of the base plate 1 is a rotatable body 4 having an annular horizontally disposed shelf 6 having an aperture 7 therein and formed integral with the rotatable body 4. Rotatably mounted within the rotatable body 4 and upon the vertically disposed shaft 3 is a lever 8 having a spring-controlled pawl 9 thereon arranged to engage the teeth 10 of a drum 12, said drum being provided with a plurality of vertically disposed flights 14, there being the same number of flights 14 as there are teeth 10, said flights 14 being arranged to form a series of compartments, each compartment being arranged to receive one loaf of sugar from the cylindrical glass bowl 16 which is mounted upon the rotatable body 4. In order to deflect the cubes of sugar from the bowl 16 into the compartments between the flights 14, I have provided a cone 17 rigidly secured to the shaft 3 and provided with an extension 18, said extension 18 being at all times directly over the aperture 7 in the shelf 6 of the rotatable body 4. A suitable cover 20 is rigidly secured to the top of the vertically disposed shaft 3 and provided with an aperture 22 which is arranged to coincide with a similar aperture within a cover 24 rotatably mounted upon the cover 20. When the rotatable cover 24 is moved or partially rotated by means of a suitable knob 26 secured thereto until the aperture therein coincides with the aperture 22 of the cover 20, the sugar may be placed through the coinciding apertures into the glass bowl 16. When the bowl 16 is full, the cover 24 is partially rotated so as to close the aperture 22 and thereby prevent the entrance of objectionable matter or insects. The lever 8 extends through a slot 28 within the rotatable body 4 and is arranged to normally close the aperture 7 as disclosed in Fig. 3 of the drawings. A suitable stop 30 is secured at one portion of the periphery of the rotatable body 4, the purpose of which will hereinafter be more fully described.

The operation is as follows: By moving the lever 8 in the direction indicated by the curved arrow in Fig. 3 of the drawings, until the said lever 8 assumes the position indicated in dotted lines in the said figure, the pawl 9 will engage one of the teeth 10 and partially rotate the drum 12 through an arc equivalent to the distance between the flights 14 and at the same time will uncover the aperture 7 and cause a loaf of

sugar to be dispensed through the said aperture 7. When the lever 8 is released, a spring 32 will return the said lever 8 to a normal position and again close the aperture 7, in order to prevent the entrance of flies or other insects through the said aperture and into a compartment. When the lever 8 is moved against the stop 30 as hereinbefore described, it is evident that a compartment containing a loaf of sugar will be moved under the said extension 18 and over the aperture 7 and a loaf of sugar will drop into the said aperture 7.

A spring pawl 33 is secured within the rotatable body 4 and is arranged to normally engage the teeth 10 of the drum 12, for the purpose of preventing a return movement of the said drum 12 when the lever 8 is returned to a normal position by the spring 32.

Should the operating lever 8 be on the side opposite the operator, the entire device may be rotated on the stationary base plate 1 by means of the stop 30, inasmuch as the rotatable body 4 and the cone 17, as well as the covers 20 and 24, are all secured to the vertically disposed shaft 3.

It is evident from the foregoing that I have provided an improved loaf sugar dispenser having few parts and easy of manipulation, improved means for filling the empty compartments, and means for preventing the entrance of flies or other insects into the interior of the device.

While I have illustrated the square or cube loaf sugar, it is evident that a device may be constructed which will be suitable for half cubes or slabs, without departing from the spirit of the invention.

The details of construction are so susceptible to variation, that I do not wish to confine myself to the precise construction shown herein, but rather to avail myself of any modification that may properly fall within the scope of my invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is—

1. A sanitary loaf sugar dispenser comprising a stationary base; a vertically disposed shaft rotatably mounted within the said base; a body having a slot and an annular shelf with an aperture therein secured to the vertical shaft; a drum having inclined teeth and vertically disposed flights thereon arranged to form compartments secured to the shaft and above the horizontal shelf; a cylindrical glass bowl secured to the body and arranged to contain loaf sugar; a cone secured to the vertical shaft and above the drum, said cone having an extension secured above the aperture within the horizontal annular shelf; and a lever pivotally mounted upon the vertical shaft and extending through the slot in the body to the exterior of the said body and adapted to engage one of the inclined teeth and partially rotate the drum and thereby deposit a loaf of sugar into the aperture in the horizontal annular shelf.

2. A sanitary loaf sugar dispenser comprising a stationary base; a vertically disposed shaft rotatably mounted within the stationary base; a cylindrical body secured to the vertical shaft and having a slot and an annular horizontal shelf with an aperture therein; a drum rotatably mounted on the shaft above the annular shelf and having vertically disposed flights and internal inclined teeth thereon; a cylindrical glass bowl secured to the body and arranged to contain loaf sugar; a cone secured to the vertical shaft and above the drum, said cone having an extension secured over the aperture in the annular shelf; a spring pawl secured within the body and arranged to prevent the rotation of the body in one direction; a cover secured to the top of the glass bowl; a lever pivotally mounted upon the vertical shaft and below the drum and arranged to normally cover the aperture within the angular shelf; and a suitable pawl pivotally mounted upon the lever and adapted to engage one of the teeth on the drum and to partially rotate the said drum and thereby deposit a loaf of sugar into the aperture within the annular shelf when the lever is moved.

In witness whereof I hereunto set my signature in the presence of two subscribing witnesses.

HARRY A. CLARK.

Witnesses:
L. E. HART,
W. E. LEWIS.

Correction in Letters Patent No. 1,184,074.

It is hereby certified that Letters Patent No. 1,184,074, granted May 23, 1916, upon the application of Harry A. Clark, of Crockett, California, for an improvement in "Sanitary Loaf-Sugar Dispensers," were erroneously issued to the inventor, said Harry A. Clark, as owner of the invention, whereas said Letters Patent should have been issued to *Clara P. Clark, as assignee of the entire interest in said invention,* as shown by the records of assignments in this office; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 19th day of September, A. D., 1916.

[SEAL.]

F. W. H. CLAY,
Acting Commissioner of Patents.

Cl. 211—8.