

R. J. WOODBURY.
MACHINE FOR HOLDING AND DISPENSING SODA WATER STRAWS.
APPLICATION FILED APR. 26, 1910.

987,276.

Patented Mar. 21, 1911.

3 SHEETS-SHEET 1.

Fig. 1.

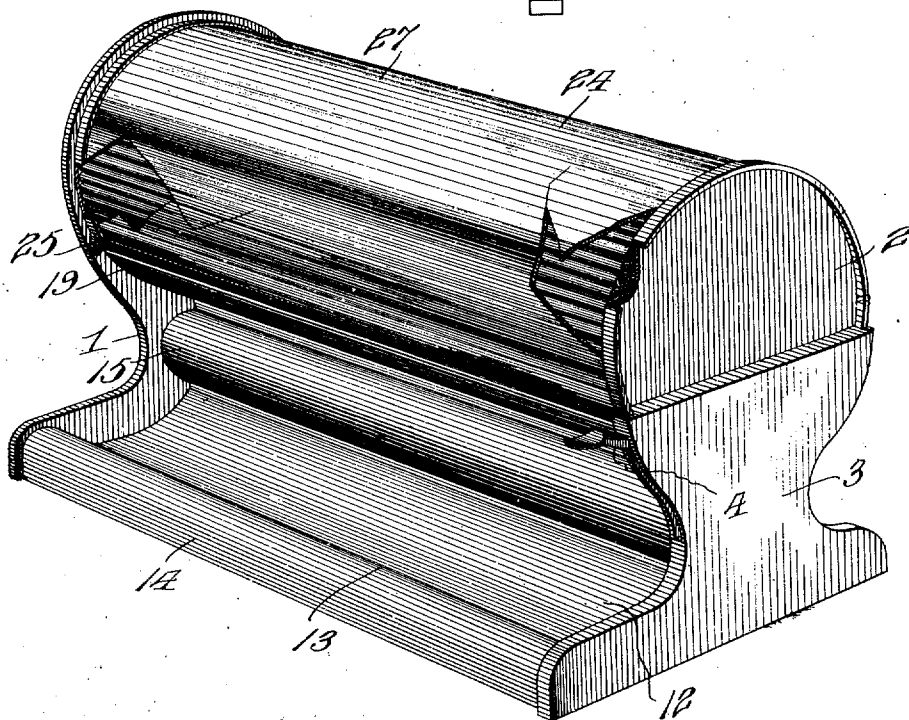
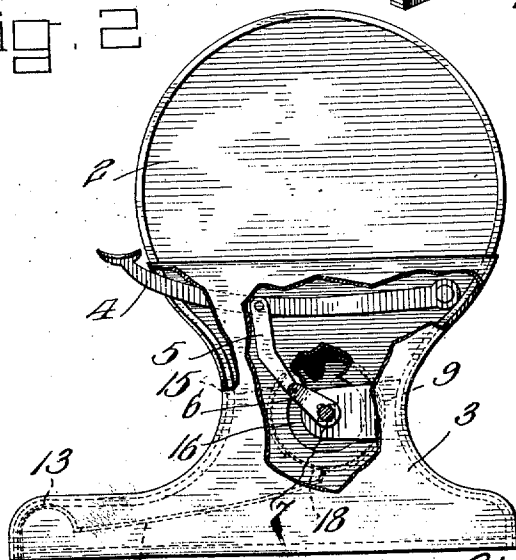


Fig. 2.



Witnesses
Harry King
Edmund King

Inventor
Roy J. Woodbury

By *Victor J. Evans*
Attorney

R. J. WOODBURY.
MACHINE FOR HOLDING AND DISPENSING SODA WATER STRAWS.
APPLICATION FILED APR. 26, 1910.

Patented Mar. 21, 1911.

3 SHEETS—SHEET 2.

987,276.

FIG. 3.

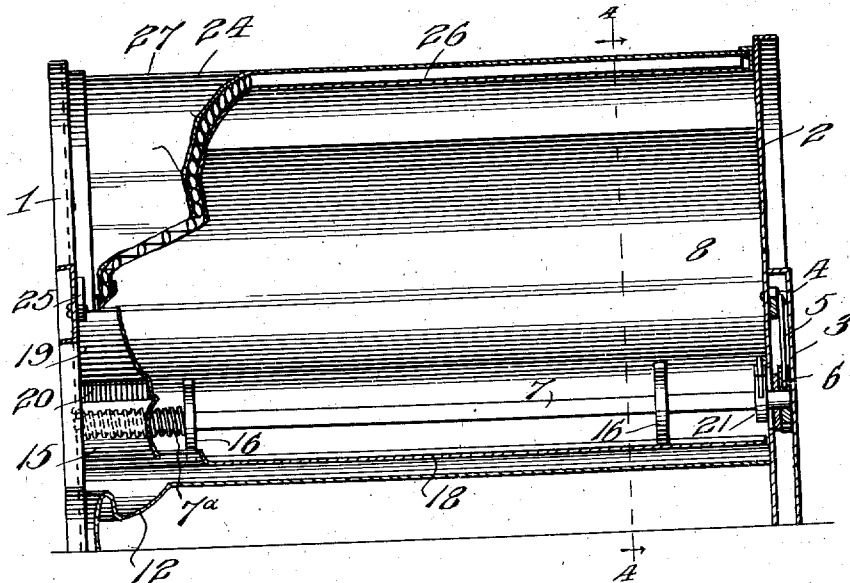
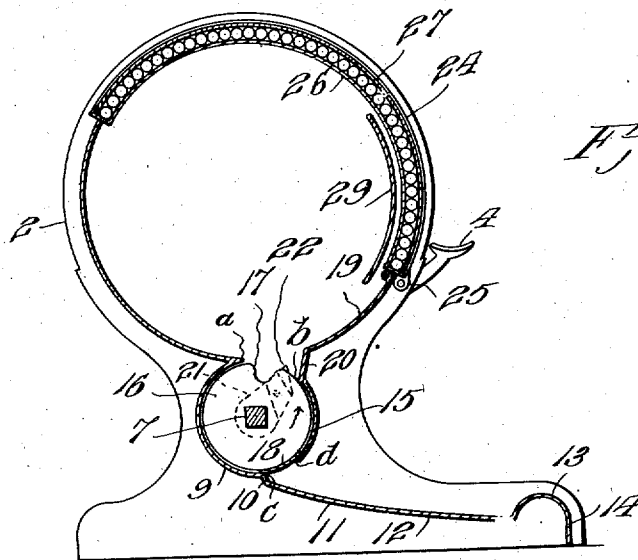


FIG. 4.



Inventor

Roy J. Woodbury,
By Victor J. Evans
Attorney

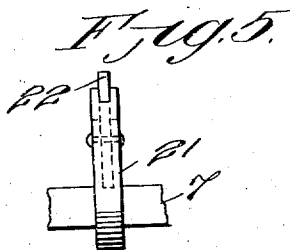
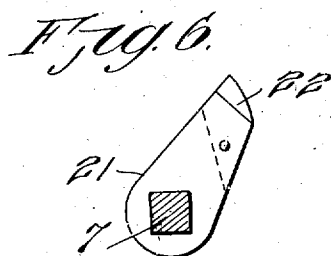
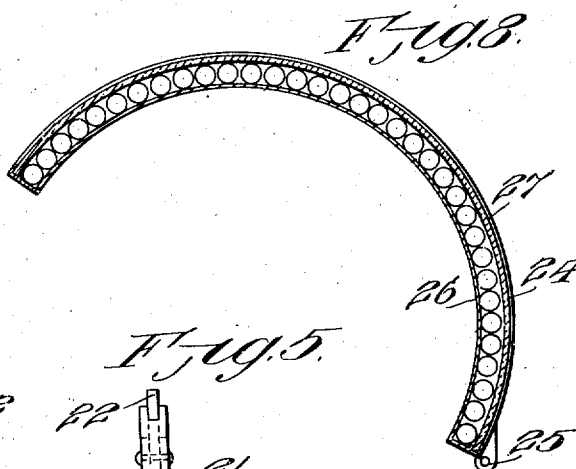
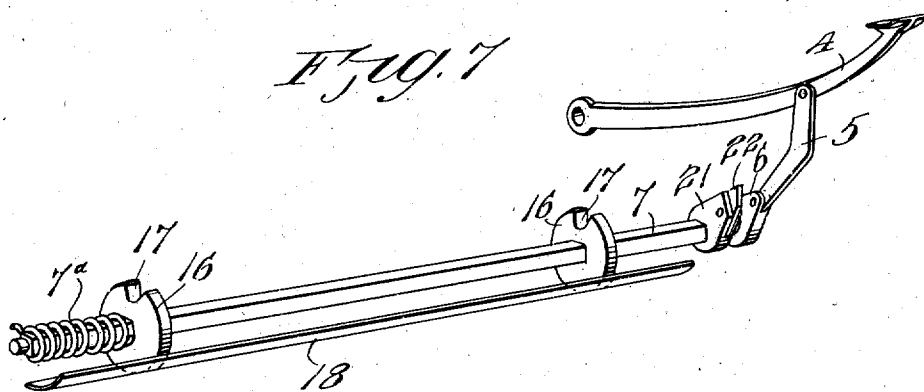
Witnesses
Frank Hough
Edward J. Evans

R. J. WOODBURY.
 MACHINE FOR HOLDING AND DISPENSING SODA WATER STRAWS.
 APPLICATION FILED APR. 26, 1910.

987,276.

Patented Mar. 21, 1911.

3 SHEETS—SHEET 3.



Witnesses

Frank Hough
Edwards

Inventor

Roy J. Woodbury

By

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

ROY J. WOODBURY, OF ATLANTA, GEORGIA, ASSIGNOR TO C. H. TEMPLE AND MARY A. TEMPLE, OF FULTON COUNTY, GEORGIA.

MACHINE FOR HOLDING AND DISPENSING SODA-WATER STRAWS.

987,276.

Specification of Letters Patent.

Patented Mar. 21, 1911.

Application filed April 26, 1910. Serial No. 557,770.

To all whom it may concern:

Be it known that I, ROY J. WOODBURY, a citizen of the United States, residing at Atlanta, in the county of Fulton and State of Georgia, have invented new and useful Improvements in Machines for Holding and Dispensing Soda-Water Straws, of which the following is a specification.

This invention relates to machines for holding and dispensing soda water straws.

The object of the invention is the provision of a machine for holding and dispensing soda water straws one at a time and for preventing contamination of the straws by dust, flies or other foreign matter.

A still further object of the invention is the provision of a simple, cheap and efficient machine of this character which is provided with means for displaying the straws in such a manner that the impression is given of a continuously full machine.

A still further object of the invention is the provision in a machine of this character of a tripping mechanism for controlling the admission of the straws to the discharge wheel and for preventing crowding or jamming of the straws at this point, and a still further object is the provision of means for preventing the ingress of dirt to the machine when in inoperative position.

Further objects of the invention will appear as the specific description which follows is read in connection with the accompanying drawings which form a part of this specification and in which:—

Figure 1 is a perspective view of the device. Fig. 2 is an end view partly in section. Fig. 3 is a perspective view of the front casing removed. Fig. 4 is a transverse section on the line 4—4 of Fig. 3. Fig. 5 is a detail edge view of a trip pawl. Fig. 6 is a detail side elevation of the same. Fig. 7 is a detail perspective view of the operating shaft and its connected parts, and Fig. 8 is a detail end elevation of the door.

Referring more especially to the drawings 1 and 2 represent end members, the latter of which is provided with an additional closing portion 3 between which and the end member 2 is located the operating lever 4 pivoted to the end member 2. This lever is connected by means of a link 5 and a crank arm 6 to the main shaft 7 which is journaled in the end members and extends the full

length of the machine. Surrounding one end of the shaft is a spiral spring 7^a which is connected at one end to the shaft and at the opposite end to the end member 1 so that the shaft is automatically returned to normal. Bridged between the end members and extending vertically on the arc of a circle is the wheel casing 9. At a point substantially opposite to the beginning of the circle 9 the casing is bent downwardly as at 10 and then slopes off as at 11 in the form of a tray 12 which is adapted to receive the articles dispensed. The forward end of the tray is raised at 13 and then depends to the base 14. The raised portion is provided to prevent the dispensed articles from falling off the tray when discharged by the machine. Opposite the circular portion 9 of the casing is a similar portion 15 which forms with the portion 9 openings *a—b* and *c—d* and secured upon the shaft 7 to operate between the portions 9 and 15 are the discharge wheels 16 arranged adjacent the ends of the shaft and provided each with a straw receiving notch 17 which when in normal position is in register with the opening *a—b*. The discharge wheels and their straw receiving notches are forced around to register with the opening *c—d* when the lever 14 is depressed and this portion carries one straw around to be discharged down the tray 12. In order to close the opening *c—d* when the wheels are in normal position I secure to said wheels a curved plate 18 which bridges the opening and prevents ingress of dust, dirt or other foreign substance.

Hinged to the end members upon the forward side is an inwardly swinging door 19 which has its lower end bent at substantially right angles thereto as at 20 so as to lie within the path of the tripping pawl 21. This tripping pawl is secured upon the square shaft 7 and has a pivoted engaging nose 22 which is adapted to swing in one direction only. When the pawl is moved in the direction of the arrow in Fig. 4, it will engage the angular end 20 of the door 19 and carry it inwardly thus moving all of the straws in the receptacle 23 to one side of the opening *a—b* and allow only one straw to engage the notches 17 of the discharge wheels. The pawl 21 carries the door 19 with it until the angular portion 20 is released by reason of being drawn out of

the arc of travel of said pawl at which time it drops back to the normal position shown in Fig. 4. Upon the depression of the lever 4, the nose 22 of the pawl engages the angular end 20 of the door 19 but gives and slips past the angular end without any action thereupon.

Arranged between the ends 1 and 2 is a closing display door 24 for the casing which is hinged to the end members as at 25 to move outwardly. This door comprises an inner semi-circular metallic support 26 and an outer transparent cover 27 connected to the inner casing at its ends by end members 28. The end opposite to the hinging point of this receptacle abuts against the end of the casing 8 and entirely closes the receptacle 23. This receptacle 24 is entirely filled with straws so that it presents to the eye the appearance of a continuously full dispensing machine.

Bridged between the ends of the casing is a shield 29 which extends from a point below the hinge 25 to a point in a plane horizontal with the upper edge of the casing 8 and conforms to the supporting member 26 of the receptacle 24. This shield is provided to prevent the loss of the straws within the receptacle 23 when the door of the receptacle 24 is open.

From the foregoing it is believed that the operation of the device will be clearly understood without further description, and it is to be understood that such modifica-

tions as are within the scope of the appended claim are contemplated by me.

What is claimed, is:—

In a device of the class described, end members, a casing connected to said end members, a discharge tray forming a part of the casing, a shaft journaled in the end members, notched discharge wheels carried by the shaft, said casing being provided with an opening to register with the notches in the discharge wheel, said casing also provided with an opening for discharging the articles from the discharge wheels, a lever for operating the shaft in one direction, resilient means for returning the shaft to normal in the opposite direction, an inwardly-opening door hinged to the end members, and comprising part of the casing, a pawl carried by the shaft and having a pivoted nose adapted to engage the door in the retrograde movement of the shaft to move the articles in the casing away from the discharge opening, said pawl adapted to idly trip past the door in the operative movement of said shaft, and means carried by the discharge wheels for closing the dispensing opening when the wheels are in normal position.

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

ROY J. WOODBURY.

Witnesses:

OSCAR GERSHON,
S. H. LANDRUM.