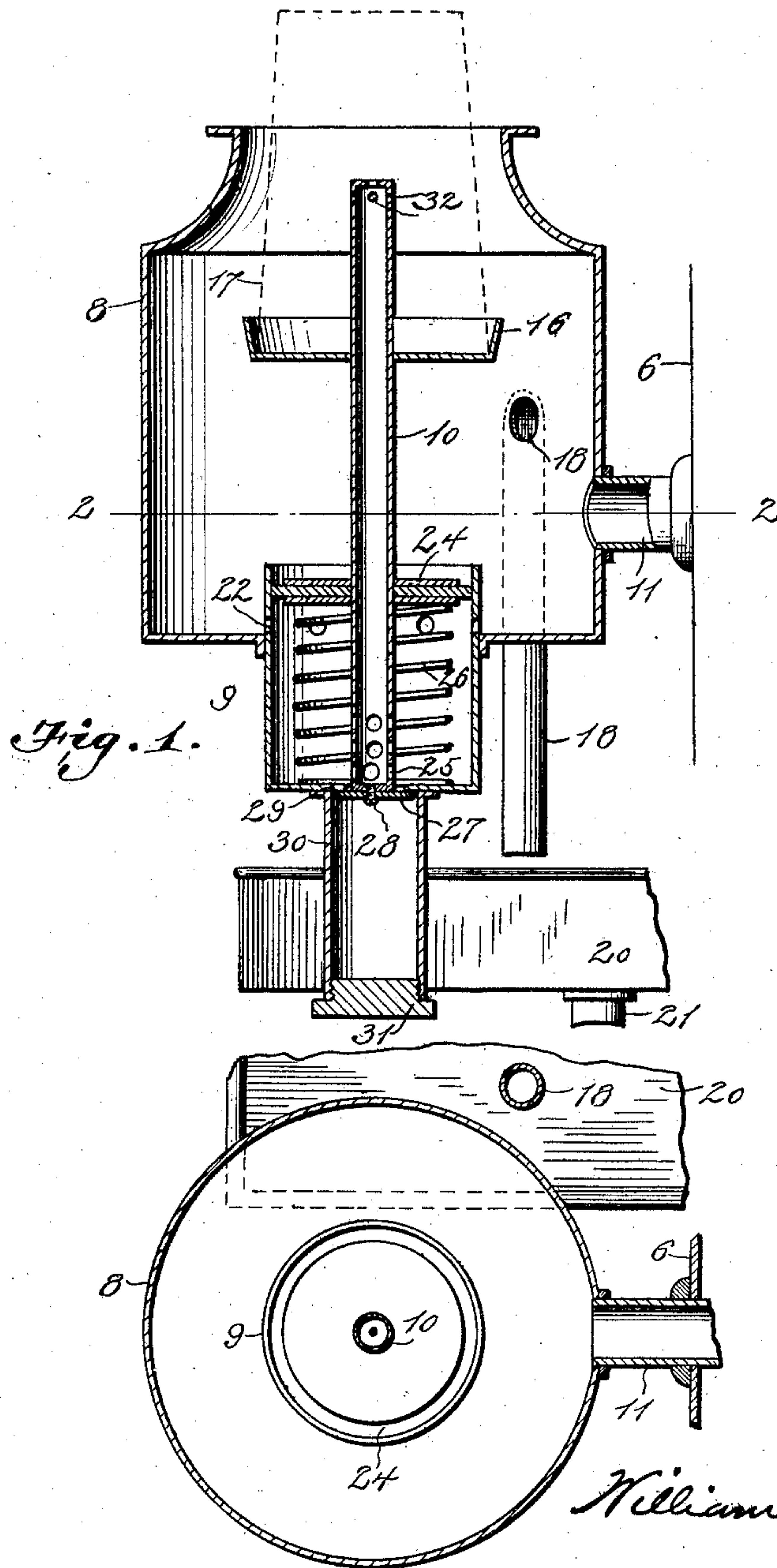


No. 859,472.

PATENTED JULY 9, 1907.

W. H. WALTER.
TUMBLER WASHER.
APPLICATION FILED SEPT. 12, 1906.



Witnesses

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WILLIAM H. WALTER, OF CHICAGO, ILLINOIS.

TUMBLER-WASHER.

No. 859,472.

Specification of Letters Patent.

Patented July 9, 1907.

Application filed September 12, 1906. Serial No. 334,251.

To all whom it may concern:

Be it known that I, WILLIAM H. WALTER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Tumbler-Washers, of which the following is a specification.

This is a tumbler washer, and it is designed particularly for use in connection with liquid vending machines or the like, for the purpose of washing or rinsing the tumbler before use, and by means thereof the waste water resulting from the melting of the ice is utilized for the purpose of washing the glass.

The invention is illustrated in the accompanying drawings, in which

Figure 1 is a central vertical section thereof. Fig. 2 is a horizontal section on the line 2—2 of Fig. 1.

Referring specifically to the drawings, 6 indicates the casing of a water cooler or liquid dispensing receptacle, to which the washer is attached.

The washer has an outer cylindrical cup or casing 8 in the bottom of which is a pump cylinder 9 provided with openings 22 at the upper end, through which water can flow from the cup into the cylinder. The cup is supported by means of a pipe 11 extending through the wall of the water cooler, and this pipe provides an inlet for the drippings or waste water from the cooler to the cup.

At 10 is indicated a hollow plunger which carries a piston 24 in the pump cylinder and is provided with openings 25 in the cylinder, below said piston. At the top of the plunger are jet holes 32, and said upper end extends nearly to the top of the cup 8. The plunger also has a tumbler support 16 fixed thereto, or formed integral therewith, of proper size and shape to receive the mouth of an inverted tumbler, said support being located below the jet holes 32, whereby water will be discharged within a glass placed upon said support, such a glass being indicated at 17 in the drawing. A spring 26, within the pump cylinder, normally lifts the piston and plunger. At its lower end the plunger carries a disk 27 fitting loosely in a guide tube 30 depending from the bottom of the pump cylinder, and this tube is closed at the bottom by a screw plug 31. The disk 27 limits the lift of the plunger by contact against

the overhanging edge 29 at the top of the tube. By removing the plug 31 and the screw 28 the disk can be taken off and the piston and plunger pulled out of the top of the cup. The cup 8 is also provided with an overflow pipe 18, at about the middle height thereof, and this pipe discharges into a pan 20 located below and beside the cup and connected to a waste pipe 21.

In use, the waste pipe from the cooler fills the cup and pump cylinder, at least to the overflow 18. When an inverted tumbler is placed on the support 16 and pressed down the piston 24 forces the water in the cylinder 9 through the openings 25 and up through the plunger 10 and out through the jet holes at the top, thereby spraying the inside of the glass, and the rim of the glass is washed or rinsed by passing below the water in the cup 8. When the plunger is released the spring 26 lifts the piston and allows the pump cylinder to refill.

I claim:

1. A tumbler washer comprising a cup having a water supply thereto, a pump cylinder in the bottom of said cup and having means to receive water therefrom, and a hollow plunger having a tumbler support in the cup and jet holes above the support, and also having a piston working in the cylinder and openings in the plunger below said piston.

2. A tumbler washer comprising a fixed cup having a water supply thereto, a pump in the cup adapted to receive water therefrom, a spring-supported tumbler holder movable up and down in the cup, and means actuated by pressure on the holder to operate the pump and discharge water therefrom against the tumbler.

3. A tumbler washer comprising a cup having a water supply thereto and an overflow, a pump cylinder in the bottom of said cup and having inlet openings from the cup, a guide tube on the bottom of the cylinder, a hollow plunger in the cup having near its lower end a piston fitting in the cylinder and openings below the piston and also jet openings at its upper end, and extending at its lower end into the guide tube, a tumbler support on the plunger below said jet holes and a spring in the cylinder under the piston, to normally lift the same.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM H. WALTER.

Witnesses:

NELLIE FELTSKOG,
H. G. BATCHELOR.