

1,060,863.

Figure 1 is a perspective view of a mechanical device, likely a valve or fitting. It features a flange (16) on the left, a central body (11), and a threaded end (14) on the right. The device has a curved top (23) and a base (15).

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SANITARY DRINKING-CUP.

1,060,863.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE C. STEARNS, Jr., a citizen of the United States, residing at Jackson, in the county of Jackson and State of Michigan, have invented new and useful Improvements in Sanitary Drinking-Cups, of which the following is a specification.

The invention relates to drinking cups, and more particularly to the class of sanitary drinking cups.

The primary object of the invention is the provision of a drinking cup in which fresh water will be admitted thereto when in one position and on moving same to another position the water supply will be cut off, and the quantity of water contained within the cup will be discharged therefrom in a manner to thoroughly rinse the cup thereby rendering it perfectly clean and sanitary.

Another object of the invention is the provision of a cup of this character in which a continuous fresh water supply will flow, thereinto when in one position for drinking purposes and on reversing the cup the supply is automatically cut off thereby rendering a saving in the consumption of water in drinking fountains; the cup when in inverted position being rinsed by the fresh water which is prevented from returning into the water supply, so that the remaining quantity of water will flush the cup so as to thoroughly clean the same, and thereby maintain it in sanitary condition at all times.

A further object of the invention is the provision of a drinking cup which is simple in construction and mounted upon a water supply pipe or the like in a novel manner so as to make it thoroughly reliable and efficient in its purpose as well as minimizing the cost of manufacture thereof.

With these and other objects in view, the invention consists in the construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claim hereunto appended.

In the drawing: Figure 1 is a fragmentary side elevation of a water supply pipe showing the drinking cup constructed in accordance with the invention mounted thereon. Fig. 2 is a vertical longitudinal sectional view thereof. Fig. 3 is an end elevation. Fig. 4 is a vertical transverse sectional view. Fig. 5 is a vertical transverse

sectional view showing a slight modification of cup and handle therefor.

Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawing by numerals 5 designates a portion of a water inlet pipe which leads from a fresh water supply main, fountain or other source of water supply, provided with an outwardly tapered stationary plug 6 providing a shoulder 7 at its inner end, while at the opposite outer end is formed a closing wall 8 for the bore 9 therein which is in direct communication with the bore of the supply pipe 5, and on this plug 6 is mounted a turning drinking cup presently described.

The drinking cup comprises a hollow dome-shaped body 10 formed with a sleeve 11 correspondingly-shaped to the plug 6 and snugly fitting about the same, the inner end of the sleeve being formed with a contracted neck 12 over which telescopes a cap 13 the same being fastened to the supply pipe by means of a set screw 14, while the outer end of the sleeve 11 is formed with a circular-shaped turning handle 15 provided with an externally knurled bead 16 which prevents the slipping of the hand on the handle when grasping the same for the turning of the cup from inverted to upright position or vice versa.

The closed end of the plug is formed with a threaded stem extension 16 on which is engaged a nut 17 working against a washer 18, the same working against a shoulder 19 formed in the handle 15, thereby fastening the sleeve 11 of the cup 10 upon the plug.

Surrounding the supply pipe 5 within the cap 13 is a coiled expansion spring 20, one end of which is fixed to the cap while its opposite end is fixed to the contracted neck portion 12 of the sleeve 11 so as to sustain the said cup normally inverted on the plug thereby avoiding leakage between the plug and the said sleeve.

Formed in the plug 6 and opening through the top thereof is an outlet port 21 with which is adapted to register an inlet port 22 provided in the bottom of the cup body 10, the said inlet port 22 being designed to register with the port 21 when the cup has been brought to upright position so that water may be admitted to the cup from the water supply pipe 5, but on inverting the

said cup the port 22 will be thrown out of register with the port 21 thereby cutting off the water supply to the cup.

Formed on the cup centrally thereof is a flared mouth engaging rim 23 communicating with the interior of the cup 10 so that water may be drunk therefrom when the said cup is in upright position and on the inverting of the cup the water remaining therein will be discharged through the mouth piece 23 thereby thoroughly cleansing the cup and sustaining it in sanitary condition at all times.

In Fig. 5 there is shown a slight modification of drinking cup wherein the sleeve 24 is formed with a laterally extending crank arm 25 whereby the cup may be shifted from inverted to upright position or vice versa.

From the foregoing description, taken in connection with the accompanying drawing, it is thought that the construction and operation of the invention will be clearly understood, and therefore, a more extended explanation has been omitted.

What is claimed is:

A drinking cup comprising an outwardly tapering plug provided with a central bore

opening through its top and the inner end thereof, an inlet pipe threaded in the open end of the bore, a hollow body formed with a sleeve correspondingly shaped to and surrounding the said plug, an intumed annular shoulder formed on the sleeve and abutting against the inner end of the plug, a flared mouth formed on the body, the said sleeve being provided with a slot adapted to register with the opening in the top of the plug, a hand grip extending outwardly from the forward end of the sleeve, means engaged with the outer end of the plug and acting against the sleeve to sustain the sleeve fastened upon the plug, a cap surrounding the inlet pipe and abutting against the inner end of the sleeve, a coiled expansion spring surrounding the pipe and working against the cap and the intumed shoulder on the sleeve, and means locking the said cap upon the inlet pipe.

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

GEORGE C. STEARNS, JR.

Witnesses:

WILLIAM W. ROWLEY,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."