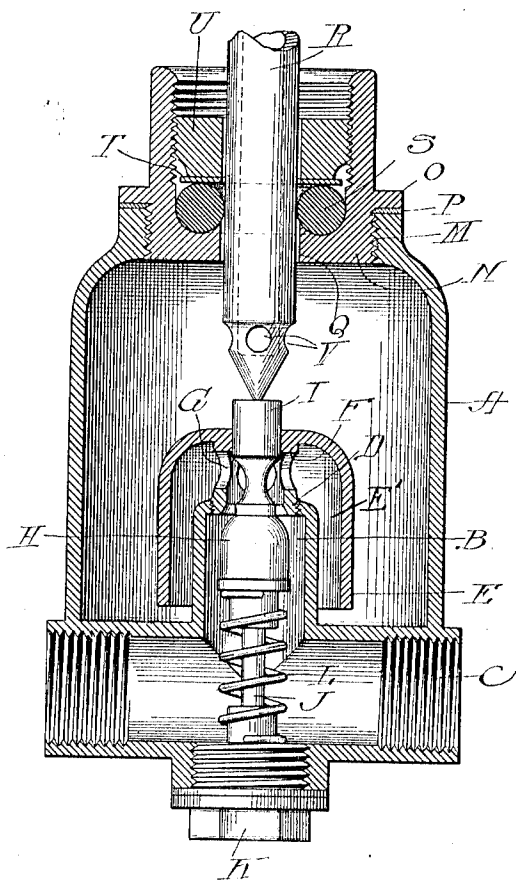


J. L. STEITZ.
 BEER PIPE CLEANSER.
 APPLICATION FILED JULY 29, 1912.

1,064,105.

Patented June 10, 1913.



Witnesses:
 Robert H. Weir
 Arthur Frankel.

Inventor:
 John L. Steitz
 By *Adolph J. D. Rattig* atty.

UNITED STATES PATENT OFFICE.

JOHN L. STEITZ, OF CHICAGO, ILLINOIS.

BEER-PIPE CLEANSER.

1,064,105.

Specification of Letters Patent.

Patented June 10, 1913.

Application filed July 29, 1912. Serial No. 712,045.

To all whom it may concern:

Be it known that I, JOHN L. STEITZ, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Beer-Pipe Cleansers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has for its object to provide a simple and efficient device for cleansing beer pipes and the like, the object being to provide a simple and always ready means for accomplishing this result whenever a barrel of beer has been emptied and prior to tapping a fresh barrel.

The invention consists in the features of construction and combinations of parts hereinafter fully described and particularly claimed.

The accompanying drawing illustrating the invention shows a cleansing device embodying my invention in central vertical section.

The invention has for its particular object to provide means whereby an ever ready cleansing device for beer pipes is provided which is at all times connected with a source of supply of hot or cold water, or both, and which is operated by inserting into the same a part of the beer barrel tapping means whereby the beer pipes are easily and quickly connected with said water supply and a flow through the same results.

A further particular object of the present invention is to provide a device of this character which is adapted to contain a supply of soluble chemical such as caustic soda crystals and through the mass of which the water is caused to flow before entering the beer pipes whereby a part of said chemical is dissolved and carried through said pipes to aid in cleansing the same.

The device comprises the casing A, preferably of cylindrical form, in the middle of which is a cylindrical inlet B for water, the latter being connected with the lateral passage C in the bottom of the casing A which is adapted to be connected at one or both ends with the service pipes of a building for admitting either hot or cold water, or both, to said casing. A valve seat D is mounted in the upper end of said inlet B, said valve seat being carried by a bell E of larger di-

ameter than the inlet B, and receiving the latter, there being an annular passage E' between the outer circumferential wall of the inlet B and the inner circumferential wall of the depending flange of the bell E. The valve seat D is disposed at the lower end of a central cylindrical flange F of said bell, the said flange being provided with a plurality of openings G through which water is adapted to flow into the said annular space E' between said bell and said inlet. A valve H seats on said valve seat D and is provided with an upwardly extending stem I which passes through said cylindrical flange F and projects above the top of said bell E, said stem I is of less diameter at its lower than at its upper end to provide an annular passage through which the water is adapted to pass to said perforations G. Said valve H is further provided with a stem J which passes diametrically through the passage C and enters a guide opening in a plug K in the lower end of the casing A and midway between the ends of the passage C. Said valve is maintained normally on its seat by means of the spring L in a well-known manner.

In the upper end of the casing A there is a relatively large opening M adapted to be closed by the cap N. The latter is provided with an annular flange O between which and the upper end of the casing A a washer P is confined to provide a fluid-tight joint. The said plug N is hollow and is provided with a central opening Q for the passage of the tap pipe R of a beer barrel. Disposed within said plug N is a packing S which is compressed therein by means of the washer T and gland U, the latter being externally threaded and engaging the internal threads in the upper end portion of said plug N. The said plug N may be readily removed at any time for the purpose of filling the upper chamber of the member A with a chemical such as caustic soda or the like, and may then be closed. The valve H is normally closed and may be opened by pressure exerted upon the upper end thereof. This pressure is applied by means of the pipe R and when so opened causes a flow of water through the openings G and annular space E' between the bell E and inlet B and thence into the bottom of the chemical containing chamber of the casing A. The water flows upwardly through the latter and through the openings V in the pipe R and thence through the beer pipe connected therewith

to the faucet. The latter is maintained open during the cleansing interval and until the beer pipe and said pipe R have been drained by gravity after removal of the latter from the casing A.

The device is very simple and efficient.

I claim as my invention:

A device of the kind specified, comprising a casing adapted to be connected with a water service pipe and having a chamber therein adapted to receive a chemical in solid form soluble in water, a cylindrical inlet for admitting water to said chamber, a bell of larger diameter than said inlet covering the latter, a hollow stem connecting the same with said inlet and having lateral openings through which water is adapted to

pass into an annular space between said bell and said inlet and through which water is discharged upon the bottom of said chamber, a valve seat at the lower end of said hollow stem, a valve seating thereon, a spring maintaining said valve normally closed, a projection on said valve extending through said hollow stem and adapted to be depressed by means inserted through said discharge opening for unseating said valve.

In testimony whereof I have signed my name in presence of two subscribing witnesses.

JOHN L. STEITZ.

Witnesses:

RUDOLPH WM. LOTZ,
M. M. BOYLE.

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