

F. PEROUTEK.
 APPARATUS FOR CLEANING BEER PIPES.
 APPLICATION FILED JULY 25, 1913.

1,129,598.

Patented Feb. 23, 1915.

2 SHEETS—SHEET 1.

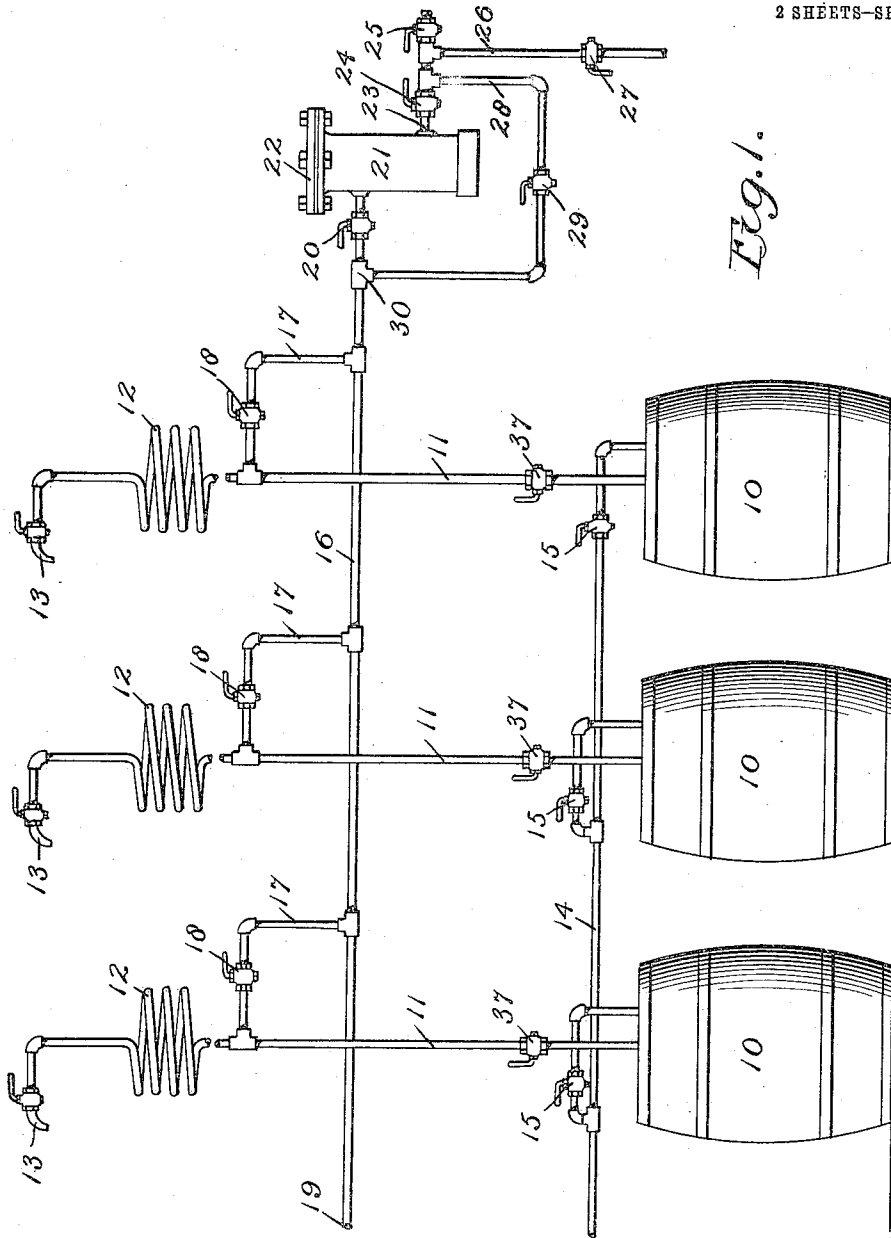


Fig. 1.

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2 SHEETS-SHEET 2.

Fig. 2.

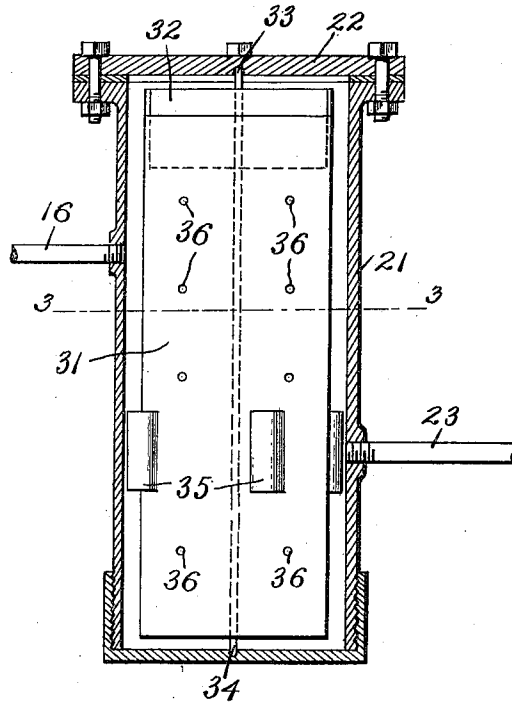


Fig. 3.

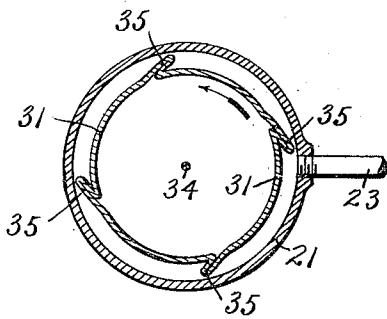
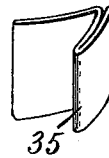


Fig. 4.



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UNITED STATES PATENT OFFICE.

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APPARATUS FOR CLEANING BEER-PIPES.

1,129,598.

Specification of Letters Patent.

Patented Feb. 23, 1915.

Application filed July 25, 1913. Serial No. 781,071.

To all whom it may concern:

Be it known that I, FRANK PEROUTEK, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Apparatus for Cleaning Beer-Pipes; 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.

The present invention has relation to an improved apparatus intended to be installed under a bar where beer is being dispensed and adapted to be used at any time for cleaning out the piping and especially the cooling coils between the casks, kegs or barrels in the cellar and the beer tap or taps on the bar.

The invention may also be applied to any similar system of piping where the danger of fouling or stoppage is to be anticipated.

The invention is shown in preferred form in the accompanying drawings wherein—

Figure 1 is a general view of the various elements of the apparatus in their relation to the barrels and beer taps, Fig. 2 is a vertical section through the middle of the mixing cylinder, Fig. 3 is a horizontal section of the same on the line 3—3 and Fig. 4 is an enlarged perspective view of a detail.

In installations of the kind to which this invention is to be applied, it is customary to place in the cellar a number of casks or barrels shown in Fig. 1 at 10 which are connected by vertical pipes or risers 11 through which beer is forced up through cooling coils 12 under the bar and ultimately to the beer taps 13 conveniently placed for use. The beer is forced up by means of compressed air delivered through a common horizontal pipe 14 connected through valves 15 with the casks 10.

In the course of a relatively short time, the piping between the casks 10, the taps 13 and especially the coils 12 become more or less choked up and foul and it is the object of my present invention to supply means for clearing out these passages. For this purpose I install in the cellar a through pipe or main pipe 16 connected by branches 17 and appropriate valves or taps 18 with the risers 11, some distance below the coils 12. One end of this through pipe 16 is closed beyond 19, while the other end communicates through a valve 20 with the mixing cylinder

21 which is also permanently installed in the cellar.

The mixing cylinder 21 has a removable cover 22 and is supplied, preferably at a point below the entrance of the pipe 16, with hot or cold water as desired, through the pipe 23 and valve 24. The cold water comes in in the usual way from the city mains through the valve 25 and the hot water may be admitted through the pipe 26 and governed by the valve 27. I prefer to provide a by-pass pipe 28 having a valve 29 in it, which is adapted to lead water around from behind the valve 24 to a union 30 with the through-pipe 16. Within the cylinder 21 I place a revolving container 31, which is preferably cylindrical in form and is provided with a cover 32. This container is intended to hold sodium carbonate or any other appropriate chemical to promote cleaning. It is provided with journals at its two ends, which in the form shown are provided by a central wire having ends 33 and 34 fitting into appropriate bearing cavities on the top and bottom of the cylinder 21. This permits the container 21 to be rotated. In order that this rotation may take place automatically, I provide the cylinder with suitably directed paddles or wings, and in the particular form shown these are formed by slitting the cylinder above and below the wings and stretching or spinning the material of which the cylinder 31 is formed, outward to form the bends 35 as clearly shown in Figs. 2, 3 and 4. These bends or paddles are all bent in the same direction and as the water is forced in through the pipe 23, it is obvious that it will cause the cylinder 31 to revolve in the direction of the arrow in Fig. 3 while at the same time the water enters the slits above and below the bends or paddles and also enters additional apertures 36 in the cylinder 31. The result of this action is that the water which enters the cylinder 31 together with the chemicals contained therein is agitated by the rotation thereof, and solution of these chemicals in the water is thereby efficiently promoted.

In order to operate my device the valves 37 are closed so as to prevent any water from being forced back into the barrels 10, and the valves 18 are opened as is also the valve 20. The water is then admitted by opening the valve 24, the valve 29 being closed, and the temperature of the water can

be regulated by the valves 25 and 27. It is obvious that on opening the valves 13, and valves 18 and 20, a stream of water, impregnated with the appropriate chemicals, will
5 be forced from the cylinder 21 through the main-pipe 16 and the branches 17 and coils 12, finding its exit at the valves 13 where it can be allowed to run away into the sink. This will be continued until the water runs
10 perfectly freely and clear, after which the valves 24 and 20 are closed and the valve 29 in the by-pass is opened. This will permit water to run around the cylinder 21, through coils 12, and out at the taps 13, and, as this
15 water is clear and devoid of chemicals, it will serve to rinse out the various passages, so that when the beer is turned on there will be no danger of its contamination by the chemicals.

20 My invention may be embodied in a variety of forms by those skilled in the art with-

out departing from my invention, and I do not limit myself to the details herein shown and described.

I claim—

25 In apparatus for cleaning systems of piping, a mixing vessel for communication with said piping, a removable sheet metal perforated container revolubly mounted within the same and having portions of its wall
30 spun outward between suitable slits and doubled on themselves to form vanes, an inlet passage near the bottom of said vessel, and an outlet passage near the top thereof, substantially as described.

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

FRANK PEROUTEK.

Witnesses:

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