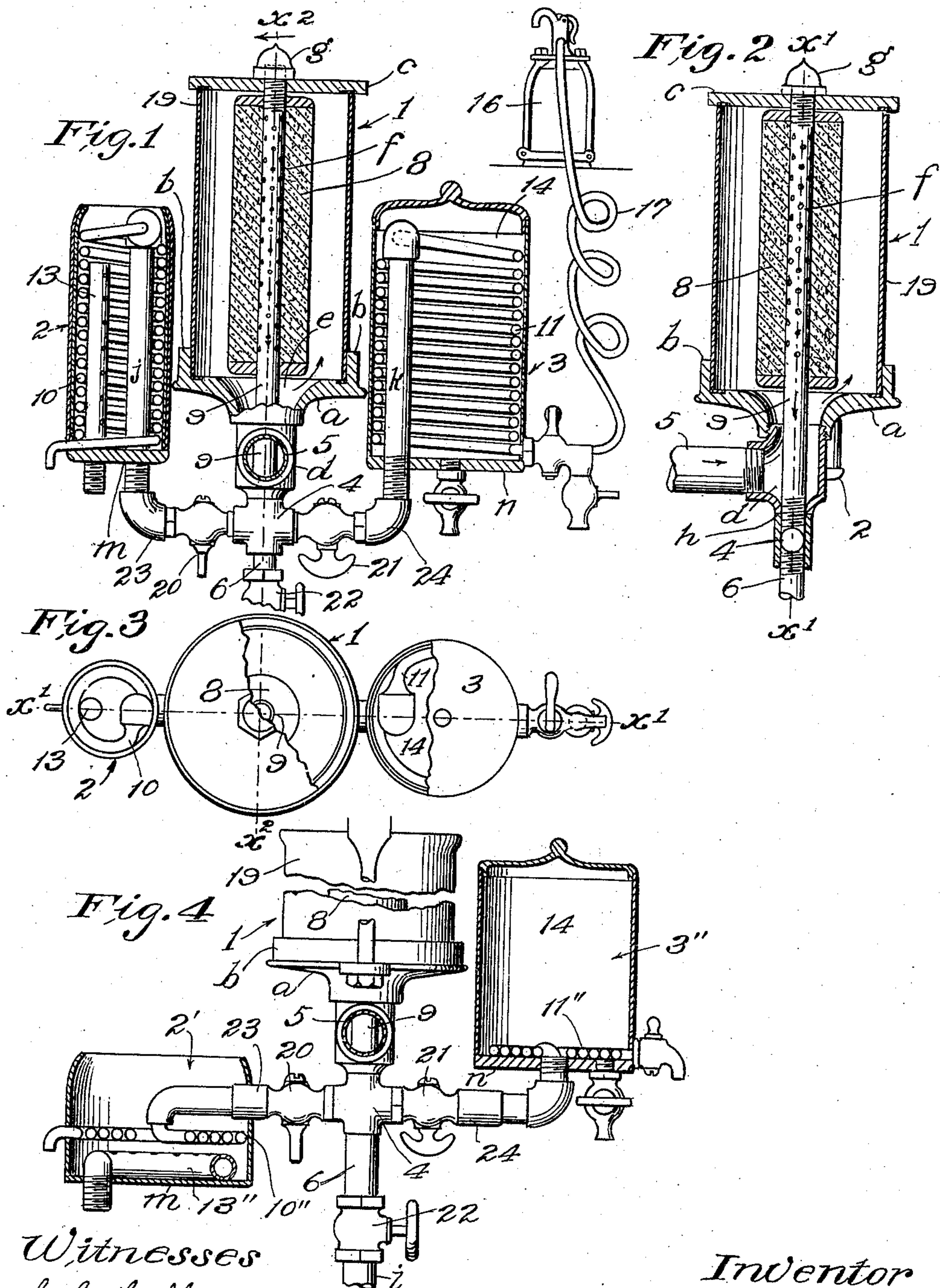


A. KENNEY.
LIQUID FILTER AND DISPENSER.
APPLICATION FILED APR. 3, 1906.

986,720.

Patented Mar. 14, 1911.



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UNITED STATES PATENT OFFICE.

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LIQUID FILTER AND DISPENSER.

986,720.

Specification of Letters Patent.

Patented Mar. 14, 1911.

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To all whom it may concern:

Be it known that I, AUGUSTINE KENNEY, a citizen of Great Britain, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Liquid Filter and Dispenser, of which the following is a specification.

My object is to improve the details of an apparatus for serving liquids, either hot or cold, and the invention consists of the novel features herein shown, described and claimed.

The accompanying drawings illustrate the invention.

Figure 1 is a fragmental, sectional view illustrating the serving device. Fig. 2 is a section of the same on line x^2-x^2 , Figs. 1 and 3. Fig. 3 is a fragmental plan of the device shown in Figs. 1 and 2. Fig. 4 is a fragmental sectional elevation of the invention embodied in another form. Fig. 1 shows the apparatus as the same may be installed in use at a bar, connection being made to supply a siphon-bottle with filtered and cooled water under pressure.

In a general way, 1 designates a filter receptacle; 2 a dispensing receptacle to serve as a heater; and 3 a second dispensing receptacle to serve as a cooler. Said receptacles are connected by the divided filter discharge 4.

5 is a service pipe leading to the filter.

6 is a valved pipe for leading the filtered fluid to a distance from the divided discharge 4. The filter core 8 surrounds the filter outlet 9 that connects with the divided discharge 4 to supply filtered fluid for the heating and cooling pipes 10 and 11 respectively, for the pipe 6.

13 is a burner for heating the pipe coil 10 in the dispensing receptacle 2; 14 is a shell of the second dispensing receptacle 3, which is adapted to hold ice or other cooling medium to cool the liquid as it passes through the second dispensing receptacle.

16 is a portable siphon-bottle with a permanent supply through a flexible tube 17 that is connected through second dispensing receptacle 3 with the outlet 9 of the filter, so as to supply the siphon bottle with cold filtered water.

The filter-shell comprises the base a , cylinder 19 inserted downwardly into the flange b extending upwardly from the base, the

cap c closing the upper end of the cylinder 19 the tee d screwed into the central opening e in the base a , the tube 9 inserted downwardly through the large opening in the tee d and screw-seated into the lower opening so as to leave a passage from the side opening of the tee upwardly into the cylinder 19, and there being perforations f in the upper part of the tube; and the capped nut g upon the upper end of the pipe and holding the cap c in place.

The divided discharge 4 is in the form of a cross, the tube 9 is screwed downwardly through the lower end of the tee d far enough to form a nipple h , and the cross 4 is screwed upon the nipple and jammed against the tee. The service valves 20 and 21 are screwed into the horizontal openings in the cross 4, a nipple 6 is screwed into the lower opening in the cross, and the valve 22 is screwed upon the nipple, and a service-pipe i is screwed into the valve 22 and may lead to any desired location. The branches 23 and 24 are elbows extending upwardly from the outer ends of the valves 20 and 21. Stand-pipes j and k are screwed downwardly through the bases m and n of the heater and cooler respectively, and into the elbows 23 and 24. The heating coil 10 is connected to the upper end of the stand-pipe j , and the cooling coil 11 is connected to the upper end of the stand-pipe k , the stand-pipes being within the coils and the flow from the stand-pipes being downwardly through the coils. The supply pipe 5 is connected to the side opening of the tee d . A horizontal tee may be substituted for the cross 4, and the nipple 6, valve 22 and service-pipe i omitted.

In practical use, the inlet 5 may be connected with a water-main so that the water under pressure of the water supply will enter the filter 1, will pass through the filter-body 8 into the perforated tube f , 9, and thence to the divided discharge 4, whence it will pass in one or another direction as may be determined by opening or closing the service valves 20, 21, 22, of the branches 23, 24, and 6 of the divided discharge.

In the drawings, the proportions of parts are not preserved throughout, and it is to be understood that they may be changed without departing from the spirit of the invention.

I claim:—

1. In a liquid filter and dispenser, the combination of a filter base, a flange extending upwardly from the base, a shell inserted
5 downwardly into the flange, a cap closing the upper end of the shell, a tee screwed into the base, the upper end of the tee being larger than the lower end and the lower end being tapped from the inside; a pipe inserted down-
10 wardly into the tee and screw-seated in the lower end and extending through the lower end, the upper part of said pipe being perforated and the upper end of the pipe extending through the cap; a capped nut upon
15 the upper end of the pipe holding the cap in place; a dispensing receptacle, a stand-pipe screwed to the bottom of the dispensing receptacle and connected to the lower end of the tee, and a coil in the dispensing recep-
20 tacle connected to the upper end of the stand-pipe.

2. The combination of a filter receptacle, a tee extending downwardly from the receptacle, the lower end of the tee being smaller
25 than the upper end; a filter pipe extending downwardly from the receptacle through the upper end of the tee and screw-seated in the lower end of the tee, a dispensing receptacle, a stand-pipe screwed downwardly
30 through the bottom of the dispensing receptacle and connected to the lower end of the

tee, and a coil in the dispensing receptacle around the stand-pipe, the upper end of the coil being connected to the upper end of the stand-pipe. 35

3. The combination of a filter-base having a central opening, a flange extending upwardly from the base outside said opening, a shell inserted into the flange, a cap closing the upper end of the shell, a filter-
40 body in the shell, a tube extending through the opening and into the filter-body and provided with perforations inside said body, the tube being imperforate outside said body, a tee connected with the base and com-
45 municating with said opening, a fitting below the tee, said perforated tube communicating with the fitting, a service pipe communicating through the tee and said central opening, with the interior of the shell
50 outside the filter-body, a dispensing receptacle, a coil in the dispensing receptacle, means connecting the coil with the tube, and a valve to control the flow of liquid through the coil. 55

In testimony whereof, I have hereunto set my hand at Los Angeles, California this 26th day of March 1906. *

AUGUSTINE KENNEY.

In presence of—

JAMES R. TOWNSEND,
JULIA TOWNSEND.

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