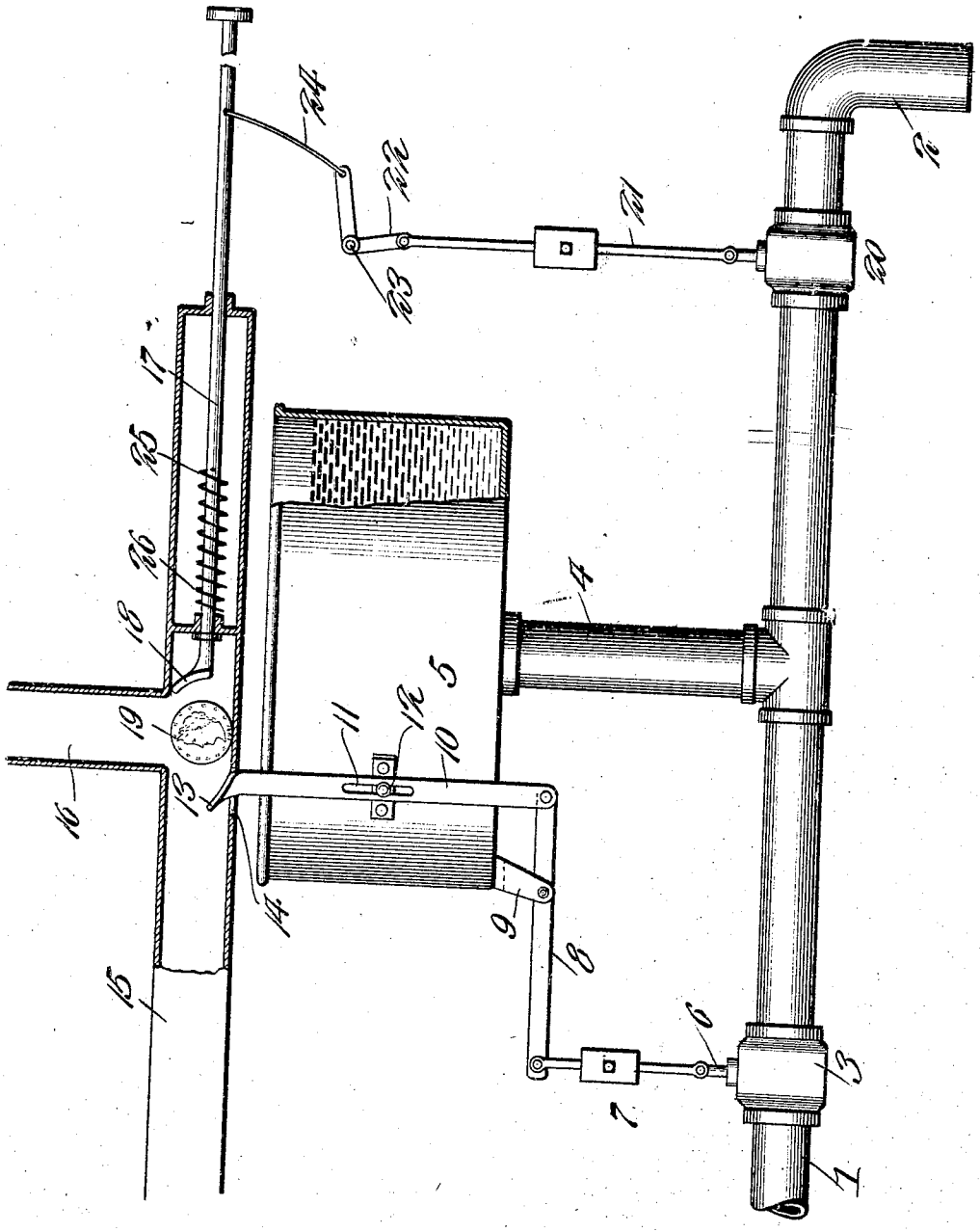
F. TURNER.

LIQUID VENDING APPARATUS.

APPLICATION FILED JULY 14, 1908.

910,748.

Patented Jan. 26, 1909.



Witnesses

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FREDDIE TURNER, OF NORWOOD, IOWA.

LIQUID-VENDING APPARATUS.

No. 910,748. Specification of Letters Patent. Patented Jan. 26, 1909.

Application filed July 14, 1908. Serial No. 443,482.

To all whom it may concern:

Be it known that I, FREDDIE TURNER, a citizen of the United States, residing at Norwood, in the county of Lucas and State of Iowa, have invented new and useful Improvements in Liquid-Vending Apparatus, of which the following is a specification.

This invention relates to liquid vending apparatus, the object of the invention being to provide simple and reliable means whereby the contents of a keg or other suitable supply tank or reservoir may be drawn off or served, the mechanism for delivering the liquid being coin controlled so that the operator, by depositing a coin in the machine may obtain therefrom a quantity of liquid.

With these and other objects in view, the nature of which will more fully appear as the description proceeds, the invention resides in the novel construction, combination and arrangement of parts, hereinafter fully described and claimed.

In the accompanying drawings the figure illustrates a side elevation of the improved vending apparatus, parts being shown in section to more clearly illustrate the det ils of the device.

Referring to the accompanying drawings the numeral 1 designates the service pipe of the improved vending apparatus. This pipe 1 is adapted to be connected with a liquid receptacle such as a keg adapted to contain the liquid to be dispensed. The keg or apparatus containing the liquid, it is to be understood, is supplied with a sufficient quantity of compressed air to allow the free delivery of the liquid from the keg when the valves connected with the service pipe 1 are thrown open. The service pipe 1 may extend any desired distance from the receptacle where it is provided with a terminal delivery spout 2 under which a vessel may be held to receive the liquid. At a suitable point removed from the spout 6 is arranged what I term a primary valve 3, while between said valve and spout is arranged a branch pipe 4 which connects with a cup or receptacle 5. The primary valve 3 is provided with a sliding gate and secured to the stem 6 of this gate is a pivoted weighted link 7. The weight 7 is adapted to normally close the gate of the valve 3 and thus normally retain the service pipe 1 closed at its point of connection with the valve.

Pivotally connected with the link 7 is an arm 8 which is hingedly secured to a suitable bracket 9 provided by the cup 5. Attached to the free end of the arm 8 is a valve opening arm 10. This arm 10 has a portion of its body provided with a vertically extending slot 11 adapted for the reception of a headed member 12, by which the arm is retained in proper position upon the cup 5. The upper portion of the arm 10 is provided with an arcuate face 13 which normally projects through an opening 14 provided upon the horizontal portion of a coin tube 15. This coin tube 15 is provided with a suitable vertically disposed coin entrance throat 16, and the tube is also provided with a longitudinally extending push rod 17 having its inner end provided with an arcuate face or finger 18. By this arrangement it will be noted that as a coin 19 is passed through the throat 16 within the tube 15 it is deposited between the arcuate faces or fingers of the rod 17 and the arm 10, and that upon forward pressure of the rod 17 the coin will be forced to contact with the face 13 of the rod 10, thus forcing the rod downwardly causing the arm 8 to rock upon its pivot and the link 7 to raise the gate of the valve 3, thus allowing the liquid to flow through the pipe 1 from the keg or receptacle.

In order to prevent the liquid from flowing directly through the delivery spout 2 when the valve 3 is operated, the pipe 1 is provided with an outlet valve 20 positioned adjacent the delivery spout 2. This valve 20 is also provided with a sliding gate, and the stem of the gate is pivotally connected with a weighted link 21. The weight provided by the link 21 is sufficient to normally retain the gate of the valve 20 in a normally closed position, so that when the valve 3 is operated to open the gate of the valve the liquid from the keg or other source of supply will flow through the pipe 1 and through the branch pipe 4 to the cup or receptacle 5. Connected with the upper portion of the link 21 is a bell crank lever 22, which is pivoted as at 23 to any suitable support and the horizontal arm of this lever is provided with a flexible element 24 by which it is connected with the push rod 17. By this arrangement it will be noted that after the rod 17 has been forced within the tube 15 so as to cause the coin 19 to engage the face 13 of the arm 10, thus depressing the arm and through the medium of the arm 8 operating the valve 3, the liquid will flow through the pipe 1 and the branch pipe 4 into the cup 5. When the coin 19 has

been forced past the upper portion of the face 13 the gate of the valve 3 will be closed through the medium of the weight provided by the link 7 and the face 13 of the arm 10 returned to normal position. As the rod 17 is forced forward within the tube 15 a suitable distance, after operating the valve 3, the flexible element 24 engaging the bell crank lever 22 will rotate the same upon its pivot 23 thereby raising the gate valve 20 and allowing the liquid within the cup 5 to flow through the delivery or outlet spout 2. In order to return the rod 17 to its initial position the rod is provided with a suitable enlargement or abutment 25 adapted to be contacted by a suitable helical spring 26 preferably positioned within the coin tube 15.

Having thus fully described the invention what is claimed as new is:

In a vending apparatus, a service pipe provided with a delivery spout, valves upon the service pipe, a branch pipe having a liquid cup between the valves, weighted links for the valves, a sliding arm connected with one of the links, a bell crank lever connected with the link of the opposite valve, a push rod having an arcuate face, a flexible connection between the push rod and the bell crank lever, and said push rod adapted to contact a coin to engage the sliding arm to operate the first valve and to operate the second valve after the first valve has been returned to closed position

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

FREDDIE TURNER.

Witnesses:
J. B. Rush,
C. M. Young.