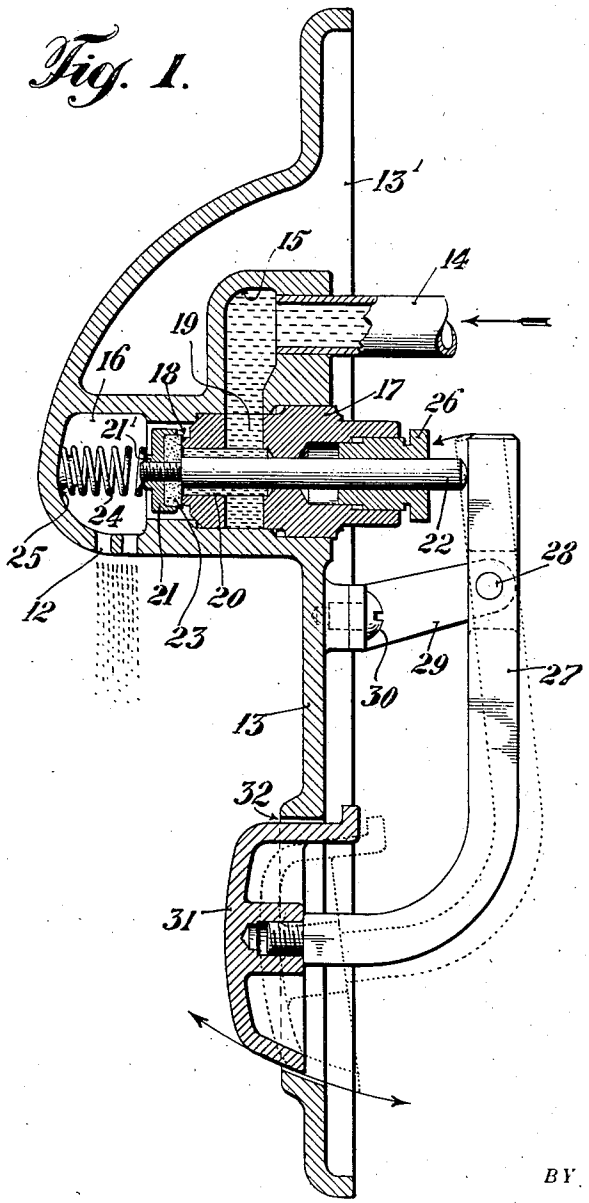
March 6, 1934. A. E. NAVE ET AL 1,950,122

VALVE

Filed Feb. 25, 1933

Fig. 1.



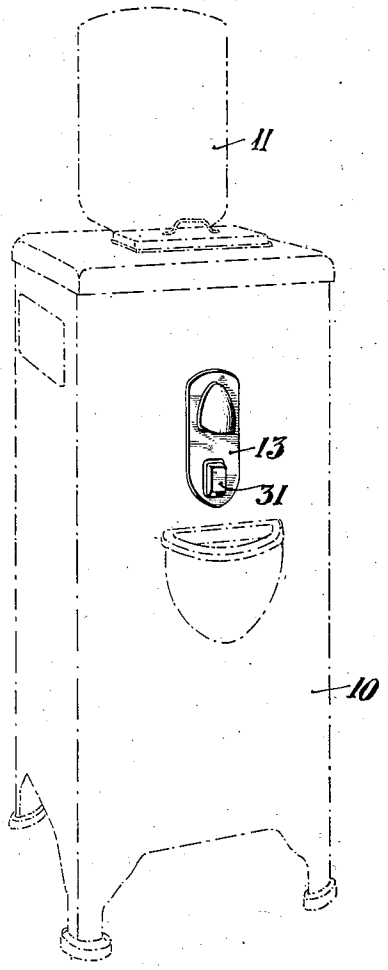


Fig. 2.

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VALVE

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10 Claims. (Cl. 251—116)

This invention relates to a water valve or faucet for controlling the discharge of drinking water from a refrigerated water cooler.

There are devices on the market which have the water valve placed in the line in such position that water flows from the valve first to the cooling unit and thence from the cooling unit to the point of discharge.

It is an object of the invention to provide an improvement over the above construction having a water valve constructed to control, directly adjacent the point of discharge, the flow of water from a water cooler.

Other objects and advantages will be apparent from the following description taken in connection with the accompanying drawing, wherein

Fig. 1 is a vertical section illustrating one embodiment of the present invention; and

Fig. 2 is a perspective of the valve illustrating its application.

Referring to the drawing, a cabinet 10 is adapted to contain a cooling chamber or coil (not shown) into which water from a bottle 11 or source of supply (not shown) is admitted to be cooled. Such container or cooling coil is adapted to be refrigerated by a refrigerating unit, also not shown, contained within the cabinet 10.

The chilled drinking water is discharged through one or more orifices 12 in a valve housing 13 secured by any desired means to the cabinet 10.

Water from the cooling receptacle or cooling coil is connected by means of a pipe 14 with a chamber 15 formed in an outwardly projecting portion of the housing 13. This chamber communicates with a transverse valve chamber 16. Located in the transverse chamber 16 is a body 17 provided with a valve seat 18 at its inner end, said body 17 having a passage 19 for liquid communicating with the chamber 15 and a second passage 20 surrounded by the valve seat 18 so that water can flow from the pipe 14 from chamber 15 through passages 19 and 20 and be discharged from the housing through the discharge outlets 12.

In order to control the flow of water from the housing a valve 21 is threadedly mounted upon a valve stem 22, said valve being cupped for the reception of a seating gasket 23. The valve 21 is normally urged towards closed or seated position by means of a spring 24 which has its ends encircling bosses 25 and 21' on the housing and valve respectively. Leakage around the opposite end of the valve stem is prevented by means of a packing nut 26 adapted to compress packing (not shown) against the valve stem.

In order to unseat the valve 21 to permit water to flow from the cabinet it is necessary to move the valve stem 22 axially and to accomplish this result an operating lever 27 is fulcrumed at 28 on a bracket 29 secured on the inner face of the housing 13 by means of screws or other fastening elements 30. The short end of the lever 27 overlies the end of the valve stem 22 while the opposite or long end of the lever is curved at right angles and is provided with a manipulating button 31 which projects through an opening 32 in a supporting plate 13' for the housing 13.

When the button 31 is pushed the lever will be oscillated on its pivot 28 to impart endwise movement to the valve stem and thus permit water to be discharged from the cooler.

The lever may be positively connected to the valve stem if desired. The push button 31 also may be located in any desired position, being shown in its preferred position directly beneath and behind the discharge orifices 12, thus permitting a drinking glass or cup to be filled by pushing the button with the fingers that hold the drinking glass. The housing 13 is preferably provided with the marginal flange or plate 13' for fitting snugly against the front wall of the cabinet 10.

It will be apparent to those skilled in the art that various other changes may be made in the construction and arrangement without departing from the spirit of the invention, and therefore the invention is not limited to that which is described in the specification and shown in the drawing, but only as indicated in the appended claims.

What is claimed is:

1. A valve casing provided with a discharge orifice and having a supporting plate, a valve for controlling discharge of water from said casing, a rearwardly projecting valve stem supporting said valve, a lever pivoted with one end overlying the rear end of the valve stem and its other end turned at right angles and projecting forwardly through said plate in a position to be manually manipulated for permitting discharge of fluid.

2. A valve comprising a valve casing provided with a discharge orifice in its underside, a plate for supporting said casing, a valve seat in close proximity to said discharge orifice, a valve for cooperation with said seat, a rearwardly extending valve stem supporting said valve, and a lever having one end overlying the rear end of said

stem and its other end disposed at right angles to its main body portion and projecting through said plate, said lever being pivotally supported intermediate its ends.

3. A valve assembly comprising a plate provided with an enlargement forming a valve casing and having a discharge orifice in its underside, a valve for closing fluid passage thru said orifice, a valve stem supporting said valve and movable transversely of the plane of the plate, operating means for said valve comprising a lever having one end associated with the valve stem in a manner to unseat the valve when the lever is operated and having its other end accessible to the front side of the plate, and a pivotal support for the intermediate portion of said lever.

4. A valve assembly comprising a plate provided with an outwardly extending enlargement on its front face having a fluid discharge orifice, a valve movable transversely of the plane of the plate for controlling the flow of fluid, means for unseating said valve comprising a lever disposed angularly relative to the valve and adapted to be rocked on its support for opening the valve.

5. A plate, a housing associated with said plate, a discharge orifice for said housing spaced forwardly of said plate, a supply line connected to said housing, a reciprocable valve for controlling fluid passage through said housing, means for maintaining said valve in its closed position, and a lever pivoted in spaced relation to said valve and having one end associated with the valve and its other end provided with a push button, the arrangement being such that when the push button is manipulated passage for fluid is afforded through said housing.

6. A faucet comprising a body having a substantially vertical plate with a projection extending therefrom, said body having a passage terminating in a downward discharge orifice in said projection, said body also having an aperture in said plate below said orifice, a valve controlling said passage, and means accessible through said aperture for operating said valve.

7. A faucet comprising a body having a substantially vertical plate with a projection extending therefrom, said body having a passage terminating in a downward discharge orifice in said projection, said body also having an aperture in said plate below said orifice, a normally closed valve in said passage, and manual means having a member in said aperture for opening said valve.

8. A faucet comprising a body having a substantially vertical plate with a projection extending therefrom, said body having a passage terminating in a downward discharge orifice in said projection, said body also having an aperture in said plate below said orifice, a normally closed valve in said passage, a push button in said aperture, and means associated with said push button and valve for opening the valve upon operation of said push button.

9. A faucet comprising a metal casting having a substantially vertical plate portion with a projection extending laterally therefrom, said casting being provided with a passage terminating in a downward discharge orifice in said projection, and an aperture in said plate below said orifice, a valve controlling said passage, and means accessible through said aperture for operating said valve.

10. A faucet comprising a body having a plate portion provided with a lateral projection having a passage terminating in a discharge orifice constructed to discharge liquid substantially parallel to said plate portion, said plate portion also being provided with an opening adjacent the discharge orifice, a valve controlling said passage, and means accessible through said opening for operating said valve.

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