May 9, 1933.

W. D. COLLINS

1,907,743

WATER COOLER

Filed Feb. 7, 1931

2 Sheets-Sheet 1

Fig. 1.

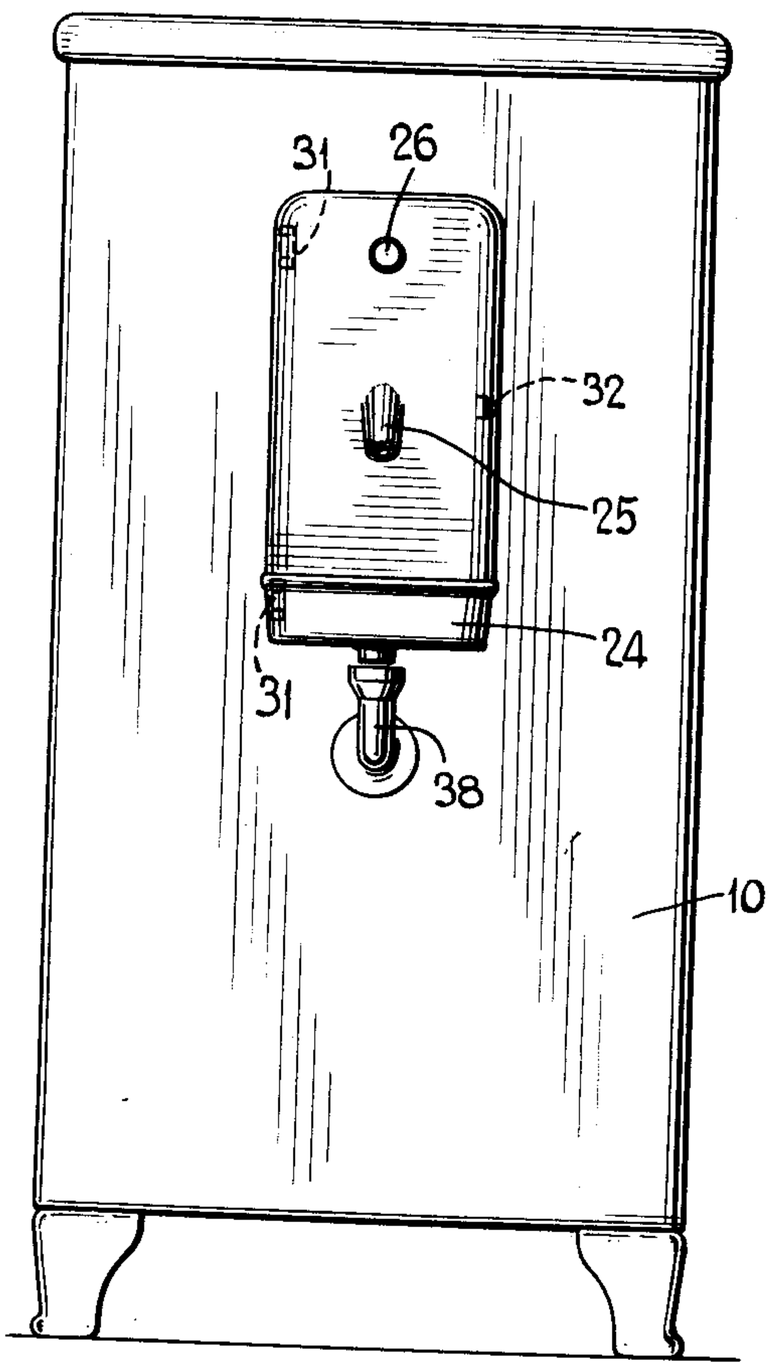
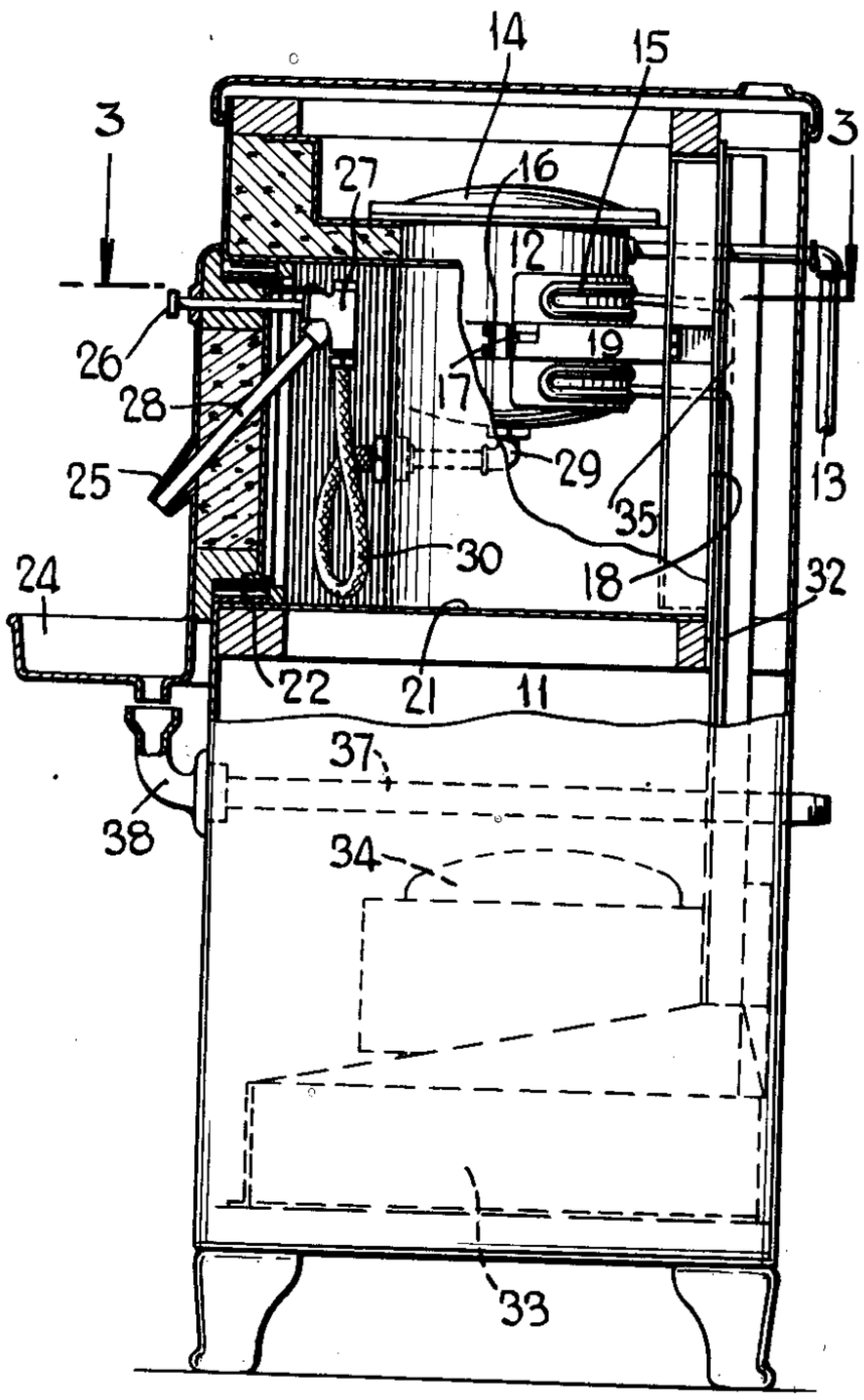


Fig. 2.



INVENTOR.
W. D. Collins
BY H. Gates Dowell.
ATTORNEY

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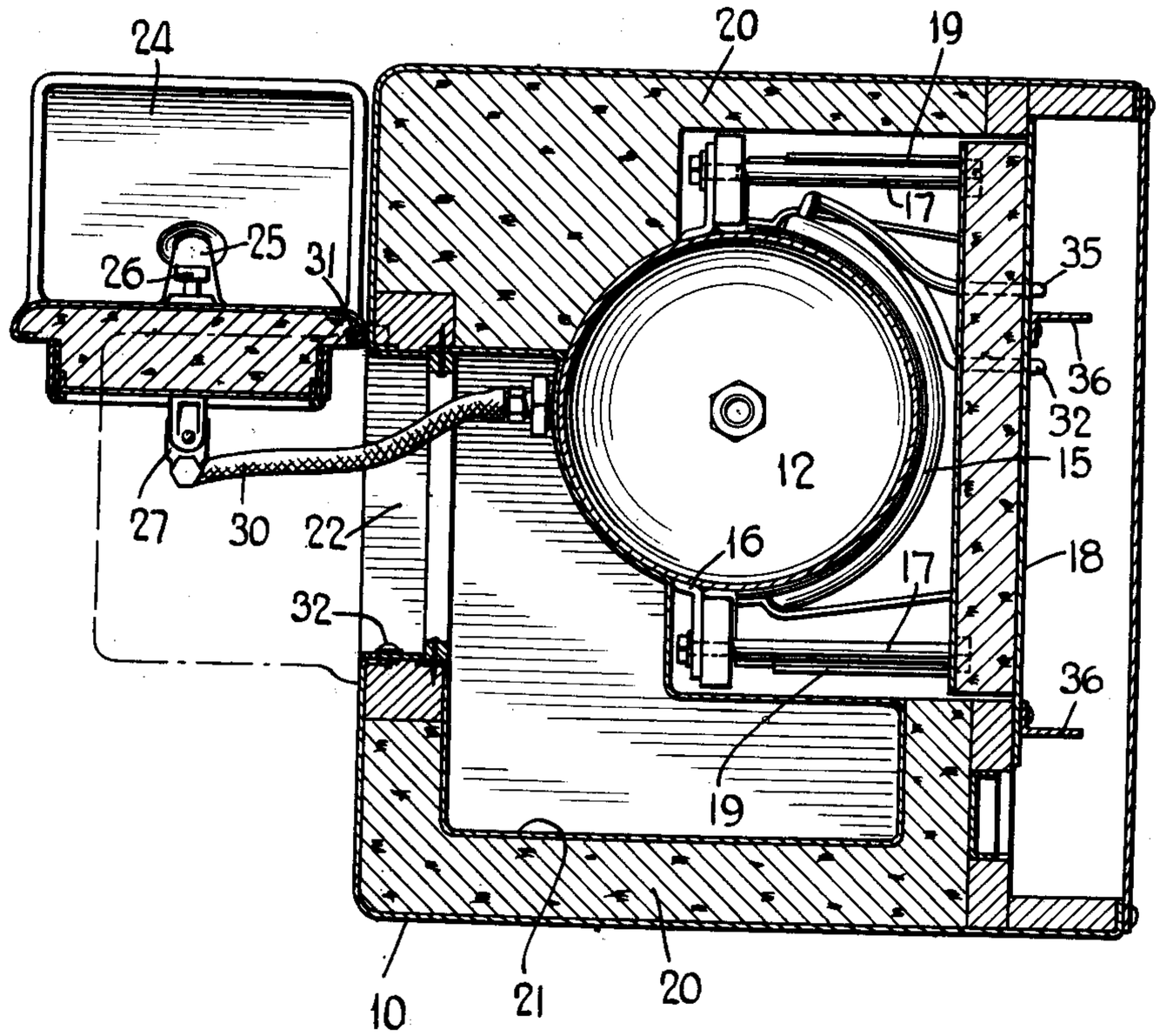
Fig 3.



INVENTOR.
W. D. Collins
BY A. Gates Dowell.
ATTORNEY

Patented May 9, 1933 1,907,743

UNITED STATES PATENT OFFICE

WILLIAM D. COLLINS, OF EVANSVILLE, INDIANA, ASSIGNOR TO SERVEL INC., OF NEW YORK, N. Y., A CORPORATION OF DELAWARE

WATER COOLER

Application filed February 7, 1931. Serial No. 514,132.

This invention relates to cabinet construction and more particularly to a refrigerated cabinet for cooling water or other liquid, and it is an object of the invention to provide in a water cooler a refrigerated compartment for the storage of bottled goods, comestibles or the like to the refrigerated.

It is a further object of the invention to provide access to the storage compartment by means of a closure panel which carries the discharge faucet or spigot, the discharge control valve and the drip basin, thus avoiding an additional opening into the cabinet.

Further objects and advantages will be apparent from the following description taken in connection with the accompanying drawings wherein

Fig. 1 is a front elevation illustrating one application of the invention;

Fig. 2, a part sectional, part side elevational view; and

Fig. 3, a section on the line 3—3 of Fig. 2.

Referring to the drawings, a cabinet 10 is provided with a machine compartment 11 in its lower portion and in its top portion with a container 12 for water adapted to be supplied through pipe line 13. The container 12 is provided with a top 14 secured thereon by any desired fastening means, not shown, and said container may be connected with the city water supply. If desired, instead of the top 14, a top, not shown, to accommodate a bottle may be provided and the pipe 13 omitted.

The container 12 is provided with a saddle type evaporator 15 to which the container is secured by means of clamps 16 held in place by bolts 17 carried by the mounting plate 18, brackets 19 being provided for assisting in supporting the container 12 and for spacing the same from the mounting plate. The upper portion of the cabinet is provided with insulation 20 which, with the insulation of the mounting plate 18, extends around the container 12. At one side and to the front of the container is provided a hollow metal shell 21 which forms a liner for a storage compartment, said shell forming communication with an opening 22 closed by a swinging door or panel 23 or other closure means.

The door or panel 23 has its outer surface covered with a plate, the lower portion of which is formed into a drip basin 24 and the central portion is provided with a discharge spigot or faucet 25. Through the swinging panel projects the control button 26 for the water discharge valve 27 which has a discharge pipe 28 projecting downwardly at an angle and terminating in the spigot or faucet 25.

The shell 21 is curved in conformity with the curvature of the container 12 in order to form a good heat connection therewith and through said shell extends a discharge pipe 29 which connects with the bottom of the container, the front end of the pipe being connected by a flexible pipe 30 with the faucet 27. The flexible connection 30 permits the panel or door 23 to be swung outwardly to afford access to the storage chamber. The panel 23 is supported on concealed hinges 31 and a concealed latch 32 may also be provided for fastening the panel in closed position.

The evaporator 15 is supplied with refrigerant through a pipe 32 from a condenser 33, the condenser being supplied with refrigerant from a motor compressor unit 34 and a suction line 35 also connects the evaporator with the motor compressor unit.

As shown in the drawings the motor compressor unit is of the hermetically sealed type and supported in the bottom of the cabinet, the evaporator and its mounting plate 18 being supported by angle iron uprights 36 and such uprights form the backbone of the machine. The evaporating or cooling element is supported from the upper part of the uprights and the unit is carried at the lower ends, such unit being removable through the rear of the cabinet, a flue being provided up the back of the cabinet which causes a natural draft of air through the condensers around the unit in the bottom of the cabinet. A drain pipe 37 is provided which has its forward end provided with an elbow 38 having an enlarged upper extremity disposed in slightly spaced

relation beneath a depending outlet of the drip pan 24 so that when the panel is closed the drip pan will be in a position to discharge water into the waste pipe.

While the closure member 23 has been referred to as a swinging panel the invention is not limited merely to a swinging panel but contemplates any desired closure for the opening 22 which affords access to the storage compartment. Such closure may be secured in position in any desired manner.

It will be obvious 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 what is shown in the drawings and described in the specification but only as indicated in the appended claims.

I claim:

1. A water cooler comprising a cabinet, a liquid container within said cabinet, a flexible discharge pipe for said liquid container means for refrigerating said liquid container, a storage compartment in said cabinet constructed to be cooled by said container, and a closure panel carrying the discharge pipe for said container and affording access to said storage compartment.

2. The combination of a cabinet, a container within said cabinet for liquid to be refrigerated, a storage compartment beside said container, an opening in the cabinet affording access to said storage compartment, a swinging panel for closing said opening, and means for discharging liquid from the container through said swinging panel.

3. A device of the class described comprising a cabinet, a container within said cabinet for liquid to be refrigerated, a storage compartment beside said container, an opening in said cabinet affording access to the storage compartment, insulation in the container about the storage compartment, a panel for closing said opening, a valve associated with said panel, a discharge pipe extending from the valve through said panel, a drip basin carried by said panel, and a control button for operating the valve to permit discharge of liquid from the container through said panel.

4. The combination of a cabinet having a machine compartment and a pair of storage compartments, an outlet from one of the storage compartments extending through the other storage compartment, and a swinging panel for closing the second storage compartment, said outlet terminating in said panel.

5. A water cooler comprising a cabinet, a container for water in said cabinet, means for refrigerating said container, a storage compartment associated with said water container and adapted to be refrigerated thereby, an opening through the cabinet into the storage compartment, a panel for closing said opening, a pipe connected to said container and discharging through said panel, and a valve in said pipe having a control button also projecting through said panel.

6. A device of the class described comprising a cabinet having an opening through one wall, a container for liquid to be refrigerated mounted in said cabinet, a closure for said opening movable to afford access to the interior of the cabinet, and means carried by said closure flexibly connected to the container for discharging liquid therefrom.

7. In combination, a cabinet having an apparatus compartment and a flue extending upwardly therefrom for creating an air flow therethrough, said cabinet also having a cooling compartment, a receptacle for matter to be refrigerated permanently mounted in said cooling compartment, and a removable refrigerating unit disposed in said apparatus compartment in the path of the air flow and having a portion projecting into the refrigerating compartment and forming good thermal contact with said receptacle.

8. In a refrigerator, a cooling compartment, a receptacle for matter to be refrigerated permanently mounted in said compartment, and a refrigerating unit disposed exteriorly of said compartment and having a portion projecting through the wall of the compartment and forming good thermal contact with said receptacle for cooling the same.

9. Refrigerating apparatus including a refrigerating compartment and an apparatus compartment disposed in superposed relation and provided with an opening forming communication between the same, a receptacle for matter to be refrigerated permanently mounted in the refrigerating compartment, and refrigerating mechanism mounted in the apparatus compartment having a portion projecting into the refrigerating compartment and forming good thermal contact with said receptacle.

10. Refrigerating apparatus including a refrigerating compartment and an apparatus compartment disposed in superposed relation and provided with an opening forming communication between the same, a receptacle for matter to be refrigerated permanently mounted in the refrigerating compartment, and refrigerating mechanism mounted in the apparatus compartment having a portion projecting into the refrigerating compartment and forming good thermal contact with said receptacle, a closure for said opening, said refrigerating mechanism being mounted upon said closure.

11. In a device of the class described, a cabinet having a storage compartment, a container for liquid in said storage compart-

ment, said cabinet having an opening affording access to said storage compartment, a movable closure for said opening, and a discharge conduit for said container projecting through said closure, a portion of the discharge conduit being fixed to the container while another portion is movable with said closure.

12. In a device of the class described, a cabinet having a storage compartment, a container for liquid in said storage compartment, said cabinet having an opening affording access to said storage compartment, a movable closure for said opening, and a discharge conduit for said container projecting through said closure, a portion of the discharge conduit being fixed to the container while another portion is movable with said closure, and a drip basin carried by said closure.

13. In a device of the class described, a cabinet having a storage compartment, a container for liquid in said storage compartment, said cabinet having an opening affording access to said storage compartment, a movable closure for said opening, and a discharge conduit for said container projecting through said closure, a portion of the discharge conduit being fixed to the container while another portion is movable with said closure, a drip basin carried by said closure and a fixed drain for receiving fluid from said drip basin.

14. A water cooler comprising a cabinet having a storage compartment, a liquid container within said storage compartment, means for refrigerating said liquid container, and storage compartment, a closure panel affording access to the storage compartment, and means for discharging liquid from the container through said closure panel in all of its positions.

In testimony whereof I affix my signature.

WILLIAM D. COLLINS.