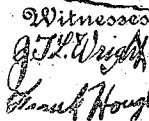


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By

Attorney

UNITED STATES PATENT OFFICE.

HENRY W. WEAVER, OF BELLEVIEW, FLORIDA, ASSIGNOR OF ONE-HALF TO HARRY R. FORD, OF JACKSONVILLE, FLORIDA.

WATER-COOLER.

1,217,673.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY W. WEAVER, a citizen of the United States, residing at Belleview, in the county of Marion and State of Florida, have invented new and useful Improvements in Water-Coolers, of which the following is a specification.

This invention relates to water coolers, and its object is to provide a water cooler in which a larger quantity of water for drinking purposes may be quickly cooled and kept cool for a longer period of time with a smaller quantity of ice than is required for this purpose at the present time with water coolers now in use.

A further object of the invention is to provide a water cooler in which the water while being drawn into and out of a cooling chamber will be sufficiently retarded in its passage to enable it to be subjected to a cooling medium for a longer time than is possible with the average cooler in use at the present time.

The invention consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claim.

The preferred embodiment of the invention has been illustrated in the accompanying drawing, but no restriction is necessarily made to the precise details of construction therein shown, as changes, alterations and modifications within the scope of the claim may be resorted to when desired.

In the drawing,—

Figure 1 is a vertical transverse sectional view through a water cooler constructed in accordance with the invention.

Fig. 2 is a section on the line 2—2 in Fig. 1.

Fig. 3 is a section on the line 3—3 of Fig. 1.

Fig. 4 is a modification of a portion of the invention for supporting the ice within the ice compartment.

Like characters of reference denote corresponding parts throughout the several views.

The letter A designates a water cooling apparatus comprising a water reservoir 1 disposed above and supported upon an ice compartment 2, said compartment resting upon the usual stand or support 3 provided

with a drip basin and drain pipe 4 and waste water receptacle 5. The ice compartment 2 is of rectangular shape having a rounded front portion 6 and a removable top wall 7, said wall being provided with an opening 8 and a hinged cover 9, so that ice may be readily deposited within said compartment 2. Provided within said compartment is a removable lining 10, the floor portion 11 of which is formed by the slanting surfaces 12 and 13 and a sediment collecting well 14 medially disposed between the front and rear walls of the compartment 2. To permit the water reservoir 1 to be supported upon the ice compartment 2 in a firm and substantial manner, the said compartment is further provided upon its top wall 7 with a cone-shaped casing 15 having a packing ring or gasket 16 interposed between said casing and reservoir 1, thereby preventing leakage of water from the casing 15 or the admission of air into an L-shaped water supply pipe 17. The said water supply pipe 17 connects the bottom of the casing 15 with the front face 18 of a rectangular water cooling and ice supporting compartment 19 disposed wholly within and resting upon the floor of the ice compartment 2 adjacent to the rear wall thereof. Extending between and connected with the front wall 18 of the compartment 19 and a faucet 20 on the front wall 6 of the compartment 2 is a coil 21 having a coupling 21', said coil acting as a means through which cold water may be drawn from the compartment 19 for drinking purposes.

In order that a large volume of water may be retarded in its passage through the coil 21 and subjected to the cooling action of the water from the melting ice, said coil is disposed adjacent to and in a plane parallel to the floor portions 11 of the compartment 2.

Secured to and passing through the lining 10 to effectually drain the ice compartment 2 of water from the melted ice in excess of a sufficient amount to cover the coil 21 and to prevent the admission of air into said compartment is a drain pipe 22 adjustably mounted within the lining 10 of the ice compartment, said drain pipe 22 having curved portions 23 and 23' partially disposed within the sediment collecting well 14.

From the foregoing description taken in

connection with the accompanying drawing, it will be readily apparent that a water cooler which is inexpensive of production and highly efficient in use has been provided, and one in which a large amount of water in the pipe 17 and coil 21 may be subjected to the cooling influences of the ice compartment 2, before and after leaving the cooling or refrigerating compartment 19.

It will be further noted that by the provision of the slanting surfaces of the floor 11 and the use of the drain pipe 22 having a double curved portion, sediment from the melted ice will be collected within the well 14 and water unnecessary for refrigerating or cooling purposes drained from the compartment 2 in an efficient manner.

If it should be found desirable to have the ice within the ice compartment disposed in closer relation to the floor of the ice compartment, to permit contact with the water within said compartment, than would be practical with the use of the compartment 19, said compartment 19 may be removed and the coil 24 shown in Fig. 4 of the drawing connected with the coil 21 of the pipe 17 and the drain pipe 22 vertically adjusted within the floor of the ice compartment, to

increase the volume of water contained therein.

Having thus described the invention, what is claimed as new, is:—

In a device of the class described, in combination a water reservoir, an ice compartment to the top of which said water reservoir is secured, a substantially oblong water cooling compartment extending transversely of one end of said ice compartment, a vertical pipe depending below said reservoir, and extending in the direction of one side of said ice compartment and having a terminal portion connected to one end of said water cooling compartment and a second pipe connected to the opposite end of said water cooling compartment and having an intermediate coil having its outer end passing immediately out of said ice compartment, and a faucet secured to the projecting end of said lastnamed pipe.

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

HENRY W. WEAVER.

Witnesses:

MARY R. HOPKINS,
SUSAN E. PARMELEE.

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