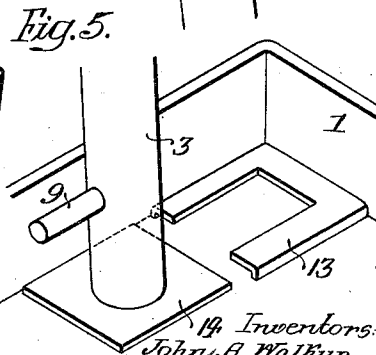
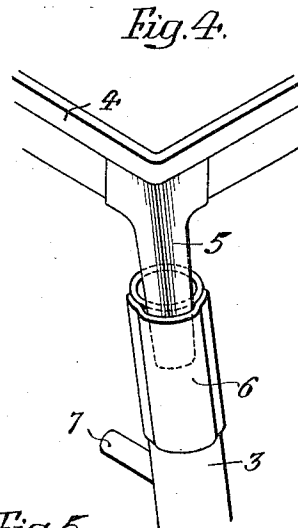
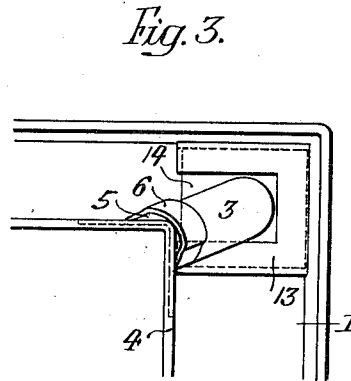
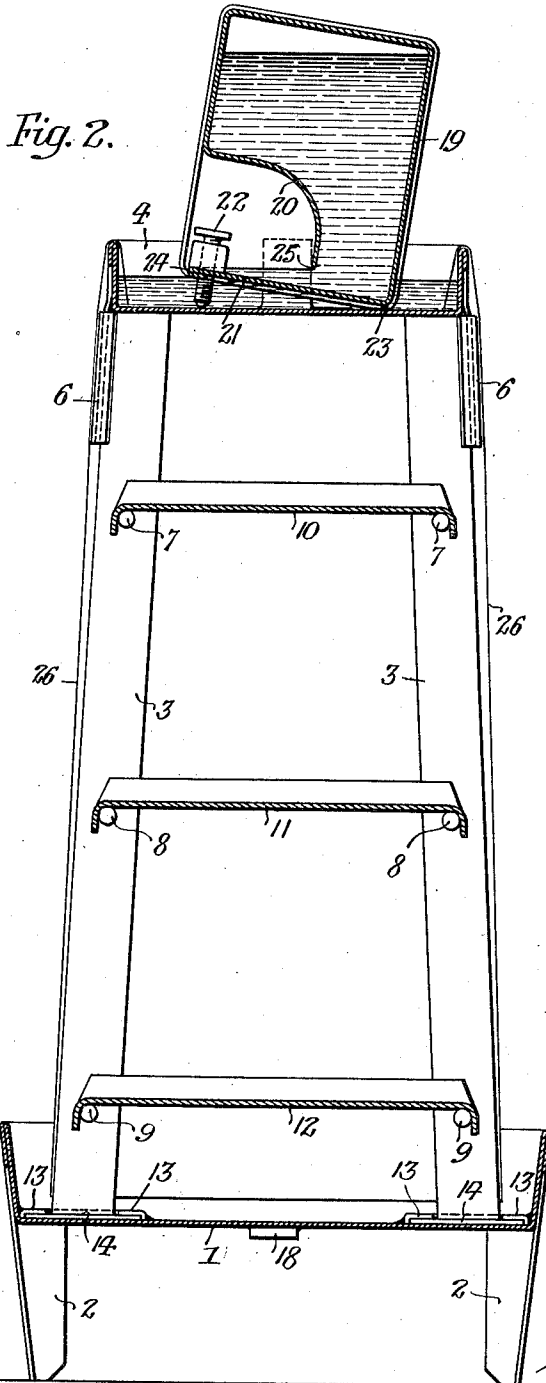


J. A. & C. W. WALKUP.
EVAPORATIVE COOLER.
APPLICATION FILED MAY 10, 1911.

1,030,693.

Patented June 25, 1912.

2 SHEETS—SHEET 2.



Witnesses—
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UNITED STATES PATENT OFFICE.

JOHN A. WALKUP AND CHARLES W. WALKUP, OF WACO, TEXAS.

EVAPORATIVE COOLER.

1,030,693.

Specification of Letters Patent.

Patented June 25, 1912.

Application filed May 10, 1911. Serial No. 626,171.

To all whom it may concern:

Be it known that we, JOHN A. WALKUP and CHARLES W. WALKUP, citizens of the United States, and residents of Waco, McLennon county, Texas, have invented certain Improvements in Evaporative Coolers, of which the following is a specification.

This invention relates to cooling devices of the general type described and claimed in a patent granted to John W. Walkup and Charles W. Walkup on January 10, 1905, No. 779,823.

An object of our invention is to provide a cooler of the type above noted which in addition to being relatively simple and inexpensive to construct shall have its parts so arranged as to permit of their quick and convenient assembly or separation; it being especially desired that the said parts shall be of such form and arrangement as will permit of their rapid and compact nesting together to permit of their being conveniently and safely transported. These objects and other advantageous ends we secure as hereinafter set forth, reference being had to the accompanying drawings, in which:—

Figure 1, is a vertical section of a cooling apparatus constructed according to our invention; Fig. 2, is a vertical section on the line *a—*a**, Fig. 1; Fig. 3, is a fragmentary plan illustrating the detail construction of certain portions of the frame of the apparatus; and Figs. 4 and 5 are perspective views further illustrating certain features of our invention.

In the above drawings 1 represents a tray or pan in which the remainder of the apparatus is mounted and said tray is provided with supporting legs 2 at its four corners. Carried by and detachably fastened to the tray 1 is an upwardly tapering framework formed by four tubular posts 3 rigidly but removably connected to the interior of the floor or bottom of the said tray and having their tops rigidly but separably connected by a cover tray 4 which has the form of a flat container. At each corner of this cover are downwardly extending projections 5 designed to fit into sockets 6 formed at the tops of the tubular posts 3. Each of said sockets usually consists of a metallic strip having its central portion spaced away from but substantially parallel with the cylindrical upper part of the post to which its end portions are soldered. Each of the posts 3 has a number of projecting pins or lugs 7,

8, and 9 designed for the support of three shelves 10, 11, and 12, which are of decreasing dimensions from the lowermost upwardly so that when nested they occupy a minimum of space. For attaching these tubular members to the bottom tray or supporting structure 1, we provide this at each of its corners with a three-sided socket structure 13, attaching to the lower end of each of the posts 3 a flat plate 14 designed to lie in a plane substantially parallel with the bottom of the tray 1 and to be slidable into and out of the socket 13. The cover tray 4 serves as a liquid container and has in its bottom two upwardly flanged ventilating openings 15 usually provided with screens 16 as shown. The flanges around these openings are preferably extended to a height above the level of the upwardly flanged sides of the tray 4 as indicated at 17 and the supporting tray 1 is similarly provided with an opening 18 through which water falling into it may be drained into a suitable receptacle or pipe.

Mounted in the cover tray 4 is a barometric water feeding container 19 which in the present instance consists of a metallic box having the lower half of one of its sides bent or extended inwardly as indicated at 20 and cut off so as to terminate a short distance from and parallel with its lower side or bottom 21. Adjacent the front edge of this part 21 we mount an adjustable set screw 22 whereby the container 19 may within certain limits be tilted on its rear edge or corner 23 so that its front edge 24 may be raised to a level immediately adjacent or, if desired, above a horizontal plane through the line of the lower edge 25 of the inwardly bent side 20.

When it is desired to use our device a body of relatively thin fabric is placed around the frame formed by the posts 3 and its upper ends are turned over the top edges of the sides of the cover tray 4 so as to extend within the same, while its lower edges extend into the supporting tray 1. The container 19 is then filled with water and after the set screw 22 has been sufficiently extended, is placed in the tray formed by the cover 4 in the position shown; the outflow of liquid being prevented owing to the fact that the line of the edge 25 is below the horizontal plane extending through the edge 24. Thereafter by properly adjusting the set screw 22, this front edge 24 may be so lowered as to permit of the entrance of

small quantities of air below the edge 25 and the liquid in the container 19 is thus permitted to feed into the cover tray at any desired rate, being thereafter drawn by capillary action into the fabric cover 26 down which it flows into the supporting tray 1. During its passage down this inclosing cover or fabric a greater or less quantity of the water is evaporated, thereby lowering 10 the temperature of the air within the cooler and thus of the articles of material carried by the shelves. By proper adjustment of the set screw 22 the feed of liquid may be so adjusted that little or none of it reaches 15 the supporting tray 1 which, as before noted, may be provided with a receptacle or drainage pipe for carrying off what liquid does flow into it and out of the opening 18.

For purposes of shipment or other transportation, the various posts 3 may be disengaged from the supporting tray 1 by being moved laterally away from the sockets 13, while the cover tray 4 may be likewise removed from the posts by drawing these 25 latter off of the downwardly projecting parts 5. The various shelves may then be nested and together with the cover tray 4 placed within the supporting tray 1, while the tubular posts 3 are usually of such 30 length that they also may be laid parallel one with the other within the tray 1. The container 19 may thereafter be placed on the uppermost of the shelves 10 or in the cover tray 4, so that the whole apparatus when 35 thus arranged for shipment occupies but relatively little space. Moreover, under these conditions the various parts are so disposed that the possibility of damage due to rough handling is reduced to a minimum 40 and as is obvious, it is a comparatively simple matter to reassemble said parts in positions such that the apparatus is ready for use.

We claim:—

45 1. A cooler consisting of a supporting structure having sockets each opening at one side; a series of posts having laterally extending portions removably fitting said sockets; a cover removably mounted on said

posts; shelves carried by the posts; a fabric 50 casing for the frame formed by the aforesaid parts; and means for supplying cooling liquid to said fabric casing.

2. A cooler consisting of a supporting base structure having substantially flat 55 sockets open at one side; a series of posts each having a base plate, removably fitting said sockets; said posts being provided with sockets at their upper ends; a cover member having projections removably fitting said 60 sockets; shelves carried by the posts; a fabric casing surrounding the frame formed by the aforesaid parts; and means for feeding liquid to said fabric casing.

3. The combination of a supporting tray 65 having a plurality of sockets; a series of posts each having a laterally projecting portion at its lower end removably fitting one of said sockets and each formed to provide a socket at its upper end; a cover tray hav- 70 ing downwardly extending projections placed to removably enter the sockets of said posts; shelves carried by said post; and a fabric casing inclosing the framework formed by the posts and their associated 75 parts.

4. The combination of a supporting tray having a plurality of sockets; a series of posts each having a laterally projecting portion at its lower end removably fitting 80 one of said sockets and each formed to provide a socket at its upper end; a cover tray having downwardly extending projections placed to removably enter the sockets of said posts; shelves carried by said posts; a 85 fabric casing inclosing the framework formed by the posts and their associated parts; and means for feeding liquid to the cover tray.

In testimony whereof, we have signed our 90 names to this specification, in the presence of two subscribing witnesses.

JOHN A. WALKUP.
CHARLES W. WALKUP.

Witnesses:

I. W. LAUGHLIN,
R. M. PATTERSON.