

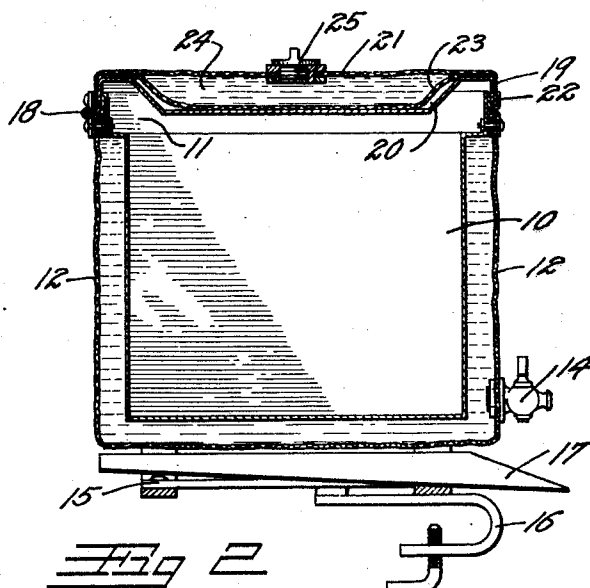
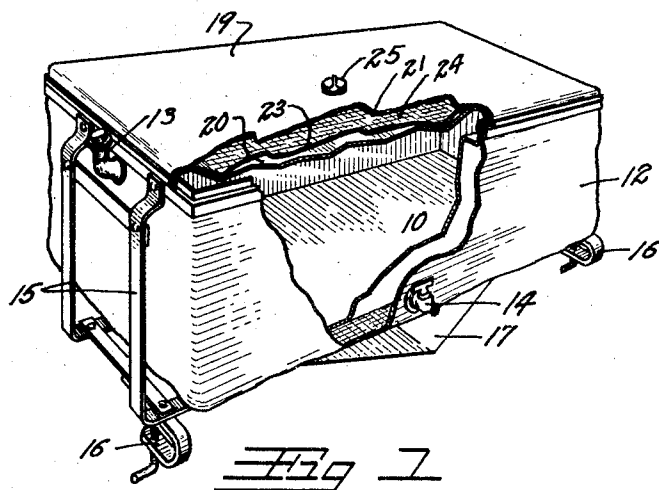
Sept. 1, 1925.

1,551,709

F. M. STOLL

EVAPORATION REFRIGERATOR

Filed Sept. 26, 1924



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Patented Sept. 1, 1925.

1,551,709

UNITED STATES PATENT OFFICE.

FRANK M. STOLL, OF DENVER, COLORADO.

EVAPORATION REFRIGERATOR.

Application filed September 26, 1924. Serial No. 740,085.

To all whom it may concern:

Be it known that I, FRANK M. STOLL, a citizen of the United States of America, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Evaporation Refrigerators, of which the following is a specification.

This invention relates to refrigerators of the type adapted to be cooled by the evaporation of water from a porous container.

The usual refrigerator of this type has a canvas water bag surrounding the sides and bottom of a metallic food container. This type has not proven satisfactory, owing to the fact that the refrigerator is usually used out of doors and the heat of the sun on the top of the refrigerator counteracts the cooling effect of the water evaporating from the sides and bottom.

The principal object of this invention is to provide efficient means for holding and evaporating water on the top or lid of the refrigerator as well as at the sides and bottom.

A further object is to provide means for collecting and carrying off the waste water from the water container.

Other objects and advantages reside in the detail construction of the invention, which result in simplicity, economy, and efficiency, and which will become more apparent from the following description.

In the following detailed description of the invention reference is had to the accompanying drawing which forms a part hereof. Like numerals refer to like parts in all views of the drawing and throughout the description.

In the drawing:

Fig. 1 is a perspective view of the improved refrigerator, partly broken away to show the interior construction.

Fig. 2 is a cross section through the refrigerator taken on the vertical center line thereof.

The refrigerator comprises a metal food container 10 which is enlarged or offset around its open upper side as shown at 11. Depending from the enlarged portion 11, and surrounding all sides and bottom of the container 10, is a cloth water bag 12. The water bag 12 is provided with an angular filling nipple 13, through which, it is filled with water, and a drain cock 14 through which water may be drawn from the bag.

It is usual with refrigerators of this type to fill the water bag from a spout which is reached by opening the lid of the container. This usually results in the accidental spilling of water into the food compartment of the refrigerator. With the applicant's angular, exterior nipple 13, the water bag is filled without it being necessary to open the lid and any water which may be spilled does not enter the food compartment. The nipple 13 extends upward above the water line of the bag to prevent any outflow there-through.

The container 10 is secured at its enlarged portion 11, to a supporting frame 15 which is provided with clamps 16 by means of which the refrigerator may be secured to an automobile running board or similar supporting surface.

A drip pan 17 is carried by the frame 15, which collects any water dripping from the bag 12 and carries it out beyond the automobile running board. This feature is believed to be new and novel since the present types of refrigerators allow this waste water to collect on the running board of the automobile.

Hinged to the container 10, as shown at 18, is a metal lid 19 which is depressed over substantially its entire area to form a recess 20. The entire lid 19 is covered with a cloth covering 21 clamped at its edges between the upturned edges of the lid 19, as shown at 22. A second layer of cloth 23 is secured to the covering 21 and depends within the recess 20 forming a porous walled water pocket 24 which is filled through a nipple 25 in the covering.

With the above described construction, the container 10 is substantially surrounded by water and all six of the faces of the refrigerator are evaporation surfaces.

While a specification form of the improvement has been described and illustrated herein, it is desired and understood that the same may be varied, within the scope of the appended claims without departing from the spirit of the invention.

Having thus described the invention, what I claim and desire to secure by Letters Patent is:—

1. In an evaporation refrigerator, a container; a lid for said container; a recess formed in said lid for containing moisture and a cloth covering secured to said lid and arranged to conceal said recess.

2. In an evaporation refrigerator, a food container; a lid for said container; a recess formed in said lid; a cloth covering secured to the edges of and covering said lid so as to conceal said recess and a cloth layer secured to said covering so as to form a porous water pocket within said recess.
3. In an evaporation refrigerator, a food container; a metallic lid for said container; a recess formed in said lid; a cloth covering secured to the edges of and covering said lid so as to conceal said recess and a cloth layer secured to said covering so as to form a water pocket within said recess and a closable filling nipple in said covering to admit water to said pocket.
4. An evaporation refrigerator comprising a food container, said container having an enlarged portion around its upper edge; a cloth bag depending from said enlarged portion and extending in spaced relation around the sides and bottom of said container; means for admitting water to said bag and a lid arranged to close said container.
5. An evaporation refrigerator comprising a food container, said container having an enlarged portion around its upper edge; a cloth bag depending from said enlarged portion and extending in spaced relation around the sides and bottom of said container; a filling nipple extending outward and upward from one end of said bag and a lid arranged to close said container.
6. An evaporation refrigerator comprising a metallic food container, said container having an enlarged portion around its upper edge; a cloth bag depending from said enlarged portion and extending in spaced relation around the sides and bottom of said container; means for admitting water to said bag and a lid hinged to the enlarged portion of said container and arranged to extend completely over said enlarged portion.
7. An evaporation refrigerator comprising a metallic food container, said container having an enlarged portion around its upper edge; a cloth bag depending from said enlarged portion and extending in spaced relation around the sides and bottom of said container; means for admitting water to said bag; a lid hinged to the enlarged portion of said container and provided with a recess; and a porous-walled water bag contained within said recess.

In testimony whereof, I affix my signature.
FRANK M. STOLL.