

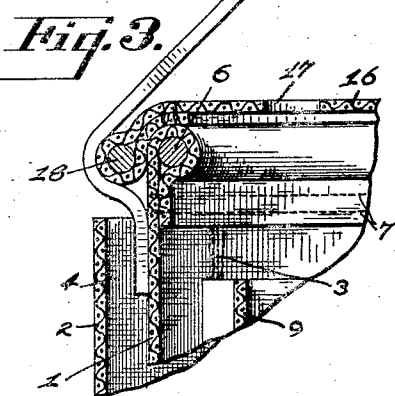
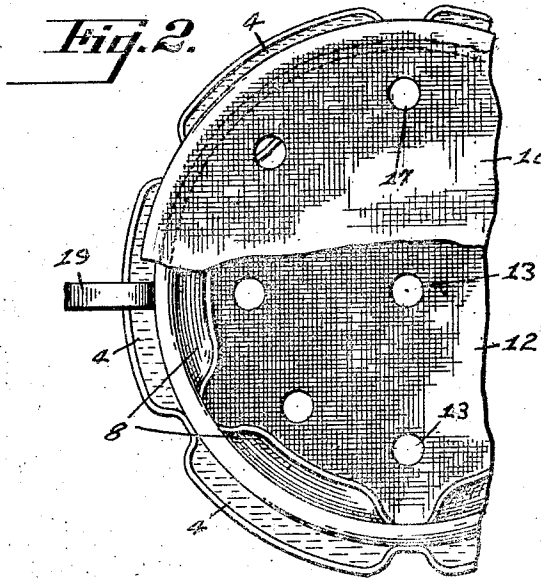
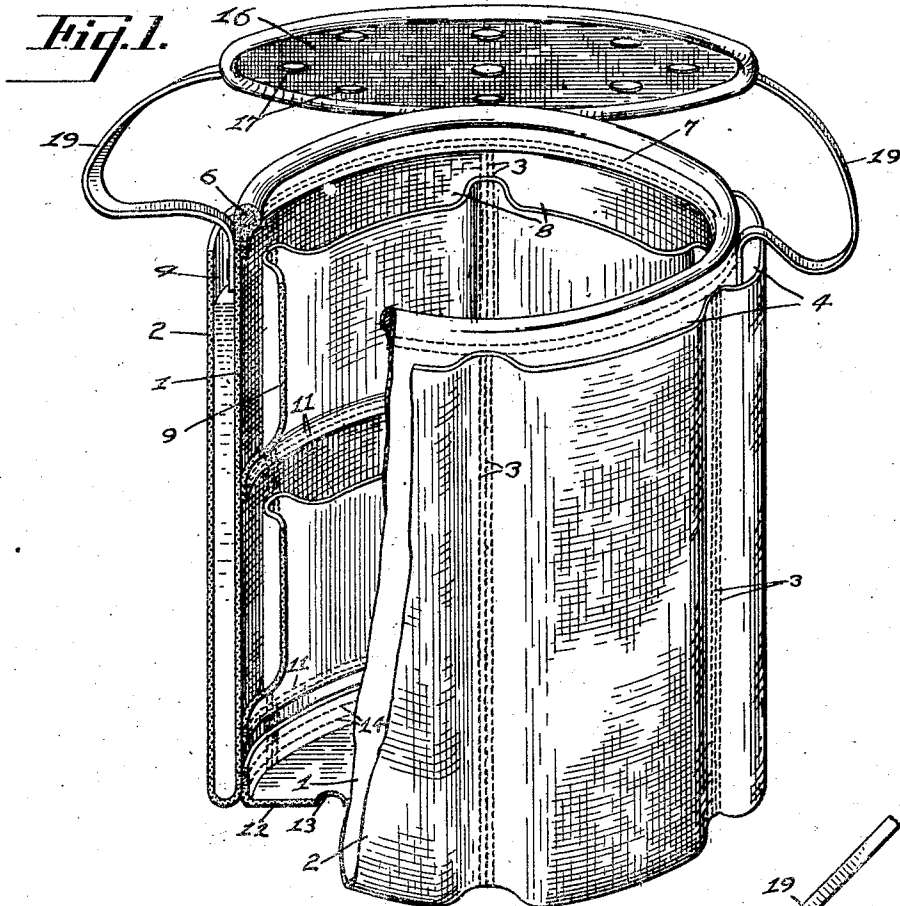
April 6, 1926.

1,579,560

C. S. MOORE

COOLER

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UNITED STATES PATENT OFFICE.

CAROLINE S. MOORE, OF SAN FRANCISCO, CALIFORNIA.

COOLER.

Application filed October 8, 1925. Serial No. 61,222.

To all whom it may concern:

Be it known that I, CAROLINE S. MOORE, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented a new and useful Improvement in a Cooler, of which the following is a specification.

My invention relates to improvements in cooling devices wherein a container, arranged to receive articles to be cooled, is provided with a double fabric wall arranged to contain a supply of liquid and adapted to permit the slow evaporation of said liquid whereby the interior of the container may be cooled.

The primary object of my invention is to provide an improved cooling device whereby articles may be kept cool without the use of ice.

Another object is to provide an improved device of the character described which will afford increased area for the evaporation of liquid and thereby increase the cooling effect obtained.

A further object is to provide an improved device which will maintain an efficient operation for long periods without attention, and which may be easily filled with liquid when necessary.

Another object is to provide an improved device which will be light and compact and still provide a relatively large capacity for articles to be cooled, and which may be readily suspended in any convenient location.

A further object is to provide an improved device adapted to be collapsed and packed within a very small space, and which will be efficiently held in shape when in use.

A still further object is to provide an improved construction which will provide a strong, durable, and efficient cooler and which may be manufactured at a low cost.

I accomplish these and other objects by means of the improved device disclosed in the drawings forming a part of the present specification wherein like characters of reference are used to designate similar parts throughout said specification and drawings and in which,

Fig. 1 is a perspective view of my improved cooler, parts being broken away and shown in section to disclose the construction and arrangement thereof.

Fig. 2 is a broken plan view of the device.

Fig. 3 is a broken sectional detail drawn

upon a larger scale and showing the manner in which the cover and suspending member are connected to the upper edge of the container.

Referring to the drawings my improved cooling device will be seen to consist of a double wall formed from a strip of canvas or other suitable fabric doubled to form inner and outer wall portions 1 and 2 respectively. The doubled edge of the fabric strip forms the bottom edge of the container wall whereby the bottom edge of the double wall is fully closed. The ends of the doubled strip of fabric from which the wall is formed are stitched together to form a continuous wall member, and the inner and outer wall portions are stitched together at intervals by parallel rows of stitches 3, the portions of the wall intervening between said rows of stitches 3 being spaced apart to form pockets 4 vertically disposed upon the outer side of the container wall and open adjacent the top thereof.

A shaping member 6, preferably an annular wire hoop, is secured within the upper edge of the inner wall portion 1 to shape the top of the container, said member preferably being held in position by folding the upper edge of the wall portion over the member 6 and stitching said edge to the wall portion 1 as at 7.

A plurality of pockets 8 are secured upon the inner wall portion 1, said pockets being formed from strips 9 of canvas or other suitable fabric stitched to the inner wall along the lower edge of the strips 9 as at 11. The strips 9 are stitched to the wall portion 1 by means of vertical rows of stitches arranged at intervals around the interior of the container, the stitches 3 preferably being passed through the strips 9 as well as through the inner and outer wall portions 1 and 2 as above described. The portions of the strips 9 extending between adjacent rows of stitches 3 are spaced away from the wall portion 1 to form the pockets 8.

A bottom member 12 is secured across the bottom of the container, said member being made of canvas, fabric, or other suitable material, and having a plurality of apertures 13 formed therein to permit a circulation of air within the container. The member 12 is preferably stitched to the inner wall portion 1 as at 14.

The top of the container is arranged to be closed by means of a removable cover

16 having apertures 17 formed therein to permit a circulation of air through the container. The cover is preferably made of canvas or other suitable fabric and is provided with a shaping element 18 secured within the outer edge to fit over the top of the container whereby said cover may be detachably secured upon the top of the container.

10 A strap 19 has its ends secured upon diametrically opposite sides of the inner wall portion adjacent the shaping element 6 to form a means suspending the container from any suitable support and for carrying the container from place to place. The strap 19 is of sufficient length to permit the cover to be partially raised to give access to the interior of the container without removing the container from a support from which it may be suspended by said strap 19.

20 In operation my invention is as follows. The pockets 4 are filled with water. The fabric from which the container is constructed is of a nature adapted to retain the water and permit only a slow evaporation thereof. When the pockets have been filled with water the water soaks through the fabric and is evaporated from both the inner and outer surface thereof. The evaporation of the water absorbs heat from the surrounding air in the well known manner and as a result the interior of the container is cooled. The water is evaporated from substantially the entire inner and outer area of the container wall, the large area thus made effective causing a rapid and efficient cooling of the container. The pockets retain a considerable supply of water so that it is only necessary to refill the pockets after a relatively long lapse of time. The apertures 13 and 17 formed in the bottom and cover respectively of the container permit a free circulation of air through the container, and materially increase the efficiency with which the interior of the container is cooled.

45 The pockets 8 are provided within the container to receive and support articles to be cooled. Thus when the device is in use, articles of various natures can be inserted in the pockets and supported separately within the cooled interior of the container in addition to such articles as may be placed directly upon the bottom member 12, such articles being cooled, and kept cool by the evaporation of water from the wall of the container. While in use, the contents of the container are effectively protected by the cover 16.

60 The device is adapted for many purposes both for commercial and household uses where it is desired to keep products cool without the expense of providing ice, and refrigerators to hold the same, or other refrigerating means. The device is particularly useful for household purposes as a means of cooling and

keeping cool such products as butter, milk, fruit, and the like, such as are ordinarily required to be kept in a refrigerator. In this connection, the device may be hung in any desired location and the products placed in any convenient manner in the pockets or upon the bottom member 12. The evaporation of the water from the walls of the container obtains a continuous cooling effect which effectively cools the interior of the container and the articles placed therein, whereby such articles may be kept cool and fresh even in extremely warm weather. If further cooling is required, a small quantity of ice placed within the container will reduce the temperature slightly further, and as the interior of the container is normally very cool, the ice melts very slowly and a small piece of ice will be caused to last a relatively long time.

85 In addition to the commercial and household use mentioned, the device is particularly useful on outings or camping trips. In this connection, the fabric body of the device when empty may be collapsed into a very compact object conveniently packed and transported, and easily placed in service when the destination is reached. If desired, the device may be carried in its extended container occupying only a small space and being readily suspended in an out of the way location in or around a conveyance.

90 The specific form and arrangement of the device is of course subject to modification in various ways without departing from the spirit of my invention. I therefore do not wish to restrict myself to the specific construction illustrated and described, but wish to avail myself of all modifications which may fall within the scope of the appended claims.

95 Having thus described my invention what I claim as new and desire to secure by Letters Patent is,

1. A cooler comprising a container having a double wall formed from a strip of fabric doubled to form inner and outer wall portions closed along the bottom edge thereof and stitched together at intervals and spaced apart along the intervening portions to form pockets vertically disposed upon the outer side of the container, said pockets being open at the top and arranged to contain a supply of liquid and adapted to permit the slow evaporation of said liquid whereby the interior of the container may be cooled; a spreading element secured within the upper edge of the inner wall to shape the top of the container; a plurality of pockets secured upon the inner wall portion to receive and support articles to be cooled; and a bottom member secured across the bottom of the container and having a plurality of apertures formed therein to permit a circulation of air in the container.

2. A cooler comprising a container having a double wall formed from a strip of fabric doubled to form inner and outer wall portions closed along the bottom edge thereof and stitched together at intervals and spaced apart along the intervening portions to form pockets vertically disposed upon the outer side of the container, said pockets being open at the top and arranged to contain a supply of liquid and adapted to permit the slow evaporation of said liquid whereby the interior of the container may be cooled; a spreading element secured within the upper edge of the inner wall to shape the top of the container; a plurality of pockets secured upon the inner wall portion to receive and support articles to be cooled; and a bottom member secured across the bottom of the container and having a plurality of apertures formed therein to permit a circulation of air in the container; and a cover detachably engaging the top of the container, said cover having apertures therein to permit the circulation of air through the container.

3. A cooler comprising a container having a double wall formed from a strip of fabric doubled to form inner and outer wall portions closed along the bottom edge thereof and stitched together at intervals and spaced apart along the intervening portions to form pockets vertically disposed upon the outer side of the container, said pockets being open at the top and arranged to contain a supply of liquid and adapted to permit the slow evaporation of said liquid whereby the interior of the container may be cooled; a spreading element secured within the upper edge of the inner wall to shape the top of the container; a plurality of pockets secured upon the inner wall portion to receive and support articles to be cooled; and a bottom

member secured across the bottom of the container and having a plurality of apertures formed therein to permit a circulation of air in the container; and a cover detachably engaging the top of the container, said cover having apertures therein to permit the circulation of air through the container; and means secured to the upper edge of the container for suspending the same to permit a free circulation of air through and around said container.

4. A cooler comprising a container having a double wall formed from a strip of fabric doubled to form inner and outer wall portions closed along the bottom edge thereof and stitched together at intervals and spaced apart along the intervening portions to form pockets vertically disposed upon the outer side of the container, said pockets being open at the top and arranged to contain a supply of liquid and adapted to permit the slow evaporation of said liquid whereby the interior of the container may be cooled; a plurality of pockets secured upon the inner wall portion to receive and support articles to be cooled, said pockets being formed from strips of fabric stitched to the inner wall; an apertured bottom member secured across the bottom of the container; a shaping element secured within the upper edge of the inner wall portion to shape the top of the container; an apertured cover detachably engaging the top of the container and provided with a shaping element secured within the outer edge thereof and arranged to fit over the shaping element secured within the inner wall of the container to normally hold said cover in engaging relation therewith.

In witness whereof I hereunto set my signature.

CAROLINE S. MOORE.