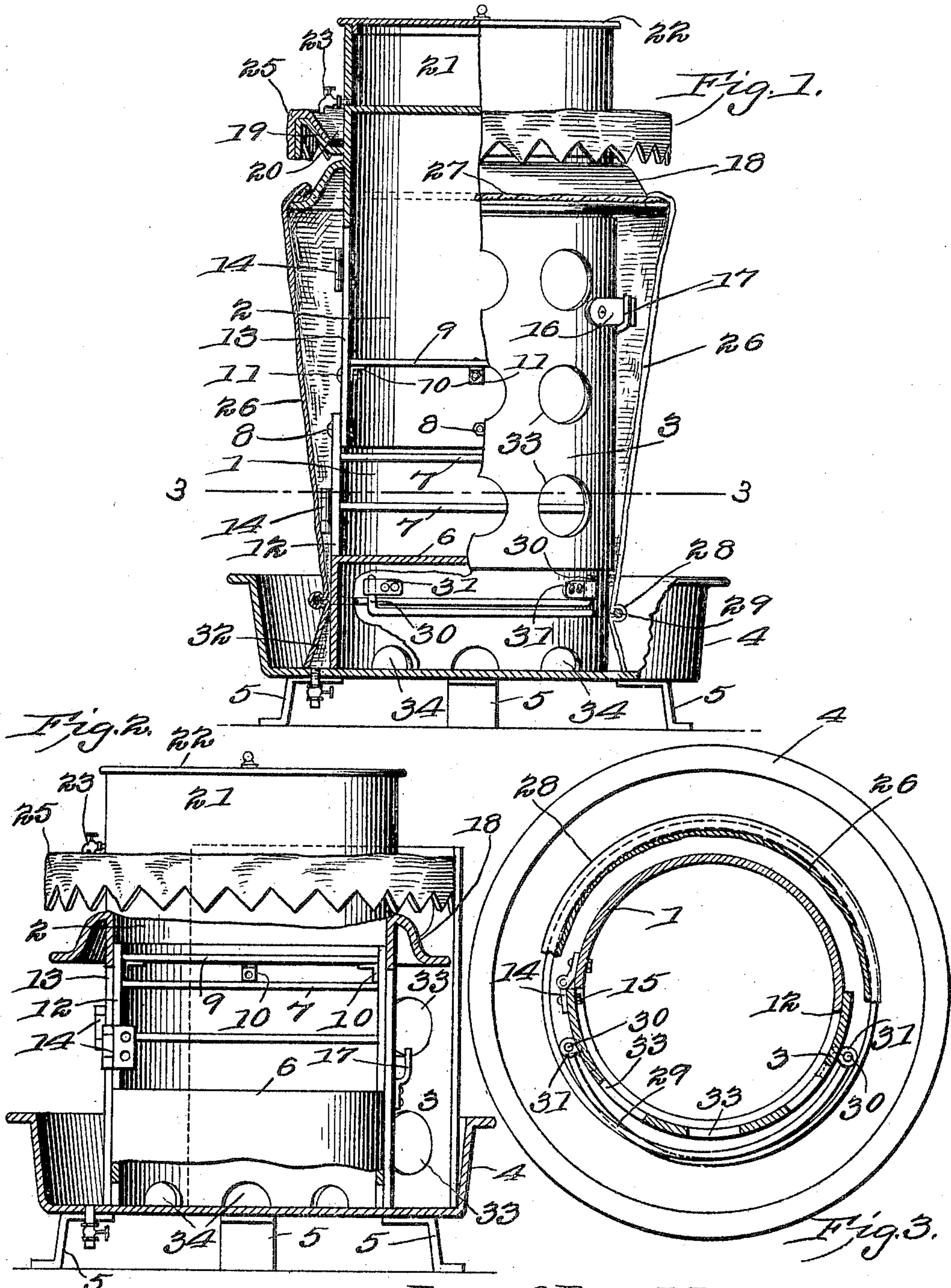


No. 821,469.

PATENTED MAY 22, 1906.

J. O. DAUGHTRY.
COOLER.

APPLICATION FILED JUNE 13, 1905.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES O. DAUGHTRY, OF HUGO, INDIAN TERRITORY.

COOLER.

No. 821,469.

Specification of Letters Patent.

Patented May 22, 1906.

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To all whom it may concern:

Be it known that I, JAMES O. DAUGHTRY, a citizen of the United States, residing at Hugo, Choctaw Nation, Indian Territory, have invented a new and useful Cooler, of which the following is a specification.

This invention relates to that class of coolers for milk, provisions, and the like in which a reduction of temperature is effected by the evaporation of liquid from a bibulous curtain or covering whereby the body of said cooler is enveloped.

The present invention has among its objects to simplify and improve the construction of this class of devices; and with these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that the right is reserved to any changes, alterations, and modifications to which recourse may be had within the scope of the invention and without departing from the spirit or sacrificing the efficiency of the same.

In said drawings, Figure 1 is an elevation, partly in section, of a cooler constructed in accordance with the principles of the invention. Fig. 2 is a sectional elevation showing said cooler collapsed for shipment. Fig. 3 is a horizontal sectional view taken on the plane indicated by the line 3 3 in Fig. 1.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

The body of the improved cooler is composed of a lower portion 1, an upper portion 2, and a door member 3, all of which are preferably constructed of sheet metal. The body of the cooler may be of any desired shape. In the drawings it has been illustrated as being cylindrical; but it may be of any other desired shape. The lower portion or member 1 is supported upon a base 4, which consists of a pan or receptacle, which may be supported upon legs, as 5. Said lower portion has a bottom 6, and it may be provided with any desired number of shelves, as 7, which may be supported permanently or de-

tachably, as may be preferred. The lower end of the upper member 2 is fitted telescopically in the upper end of the lower member 1, with which it is detachably connected by means of bolts 8. If shelves are desired in the upper member 2, they should be connected detachably therewith, as best seen by reference to Fig. 1, where 9 designates a shelf provided with downward-extending brackets 10, connected, by means of bolts 11, with the walls of the member 2. The members 1 and 2 are provided with coinciding door-openings 12 and 13, and each of said members carries a hinge 14. The door 3 is detachably connected with the hinges by means of bolts 15. Said door is also provided with a suitable latch 16, adapted to engage a keeper 17, which has been shown as disposed upon the upper member 2. The upper member 2 is provided near its upper end with a downward-extending flange 18 and an upward-extending flange 19, the latter forming an annular trough or channel 20 for the reception of liquid upon a tank 21, which is supported upon the top of the member 2. Said tank has a detachable lid 22, enabling the supply of liquid therein to be replenished, and it is provided with a cock 23, through which its contents may be permitted to escape into the trough or channel 20. The upper edge of the flange 19 supports an annular pad 25, of cloth, felt, or other suitable material, said pad being of inverted-V shape in cross-section, so that the inner portion thereof will be disposed in the trough or channel, while its outer portion will overhang the upper edge of the flange 19.

A curtain or envelop 26, of textile or other suitable material, is provided at its upper edge with a drawstring 27, whereby it may be supported upon the flange 18. The said curtain is provided near its lower edge with a seam 28, containing a hoop 29, of wire or other suitable material, said hoop being provided with upturned ends 30, adapted to overlap each other and to engage loops or eyes 31 upon the bottom member 1, near the lower end of the latter, for the purpose of enabling the edges of the curtain to be overlapped and connected with the body of the cooler near the lower end of the latter. The curtain 26 may have a fringe or hem 32 depending into the pan 4. The body, as well as the door of the cooler, may be provided with ventilating-openings 33. The lower edge of the bottom member 1 may also be provided

with apertures 34 to permit water to circulate beneath the bottom 6. The pan 6 is provided with a downwardly - extending valved pipe through which the contents of said pan may be drawn off at will.

The improved device is to be constructed of sheet metal or other material of sufficient resiliency to enable the top member 2 after the door 3 and the connecting-bolts 8 have been removed to be sprung around the bottom member 1 and lowered to the bottom of the pan or receptacle 4, as will be seen in Fig. 2 of the drawings. It is obvious that when shelves, as 9, are used said shelves will likewise have to be detached by removing the bolts 11, thus enabling the members 1 and 2 to be telescoped together. The door 3 may then be supported in the bottom of the pan or receptacle 4, with its upper end leaning against the top flange 19. The curtain or envelop has not been shown in Fig. 2 of the drawings; but it is obviously capable of being collapsed around the body of the cooler and of being accommodated in the pan 4. In this manner the improved cooler may be very conveniently collapsed for shipment, and it may be very readily and quickly extended and set up for operation when required.

The operation of the device will be readily understood. The tank or receptacle 21 is filled with suitable liquid, such as water, and the pad 19 and curtain 26 are saturated by permitting the said liquid to overflow from the annular channel 20. After the pad and the curtain have been flushed and thoroughly saturated the flow may be diminished and the supply from the tank 21 be reduced to a point merely sufficient to compensate for the loss by evaporation. The absorption of heat by the evaporation of the liquid will ef-

fect a considerable reduction in the temperature of the cooler, in which milk, provisions, and the like may thus be kept fresh and pure for considerable time without the use of ice or any other cooling medium.

Having thus described the invention, what is claimed is—

1. In a cooler, a pan constituting a base, a bottom member supported in said pan, a top member fitted within and connected detachably with the upper end of said bottom member; said bottom and top members having coinciding door-openings and said top member being resilient to enable it to be sprung and telescoped upon the bottom member.

2. In a cooler, a pan constituting a base, a bottom member supported in said pan, a top member fitted within and connected detachably with the upper end of said bottom member; said bottom and top members having coinciding door-openings and said top member being resilient to enable it to be sprung and telescoped upon the bottom member; in combination with a door hingedly and detachably connected with the bottom and top members.

3. In a cooler, a bottom member, and a top member fitted within and connected detachably with the upper end of the bottom member; said top member being resilient and provided with an opening to enable it to be sprung and telescoped upon the bottom member.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES O. DAUGHTRY.

Witnesses:

JOHN McINTOSH,
W. P. HILLHOUSE.