

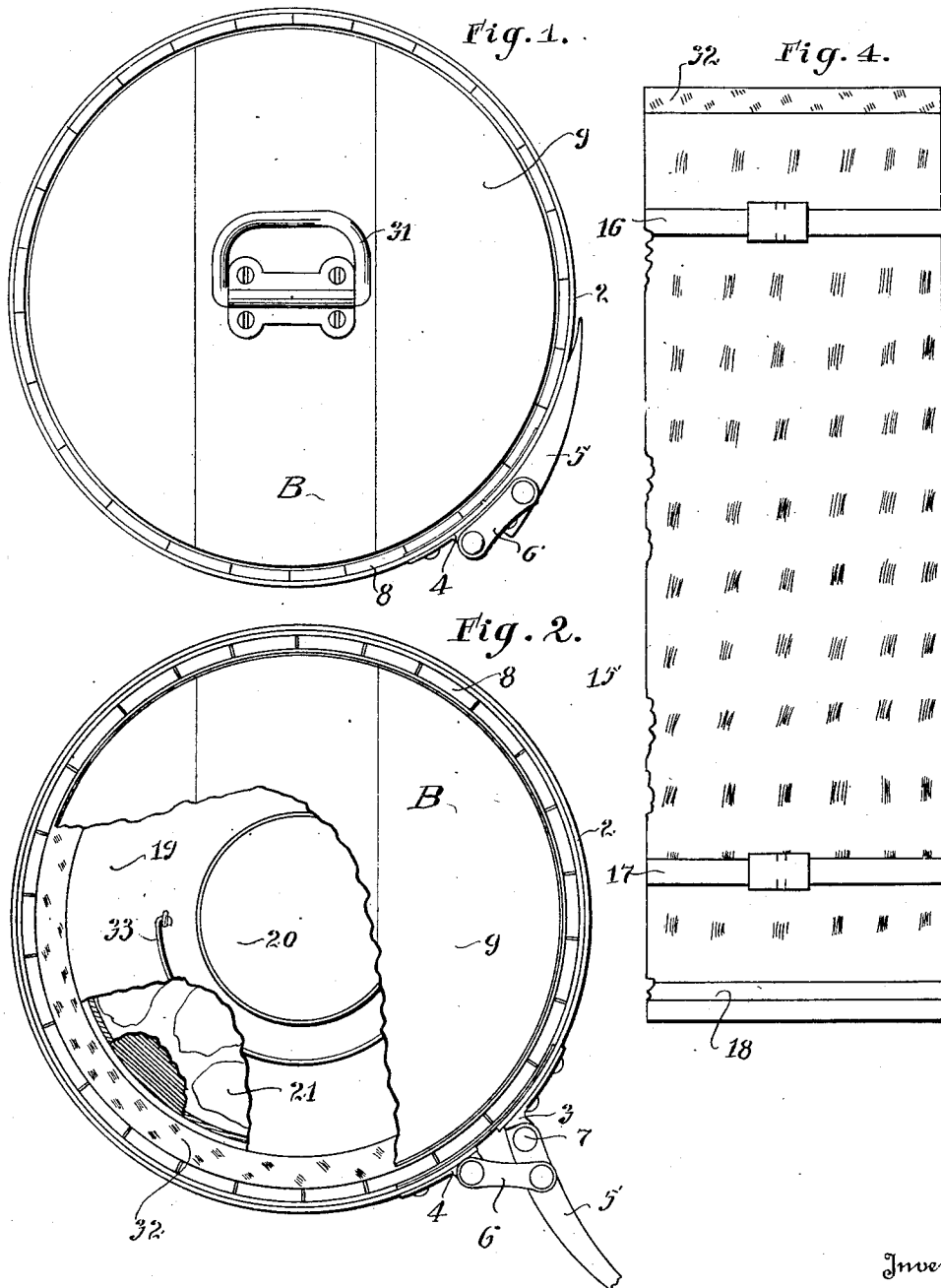
March 1, 1932.

W. J. MURRAY
REFRIGERATOR BARREL

1,847,254

Filed Aug. 2, 1929

2 Sheets-Sheet 1



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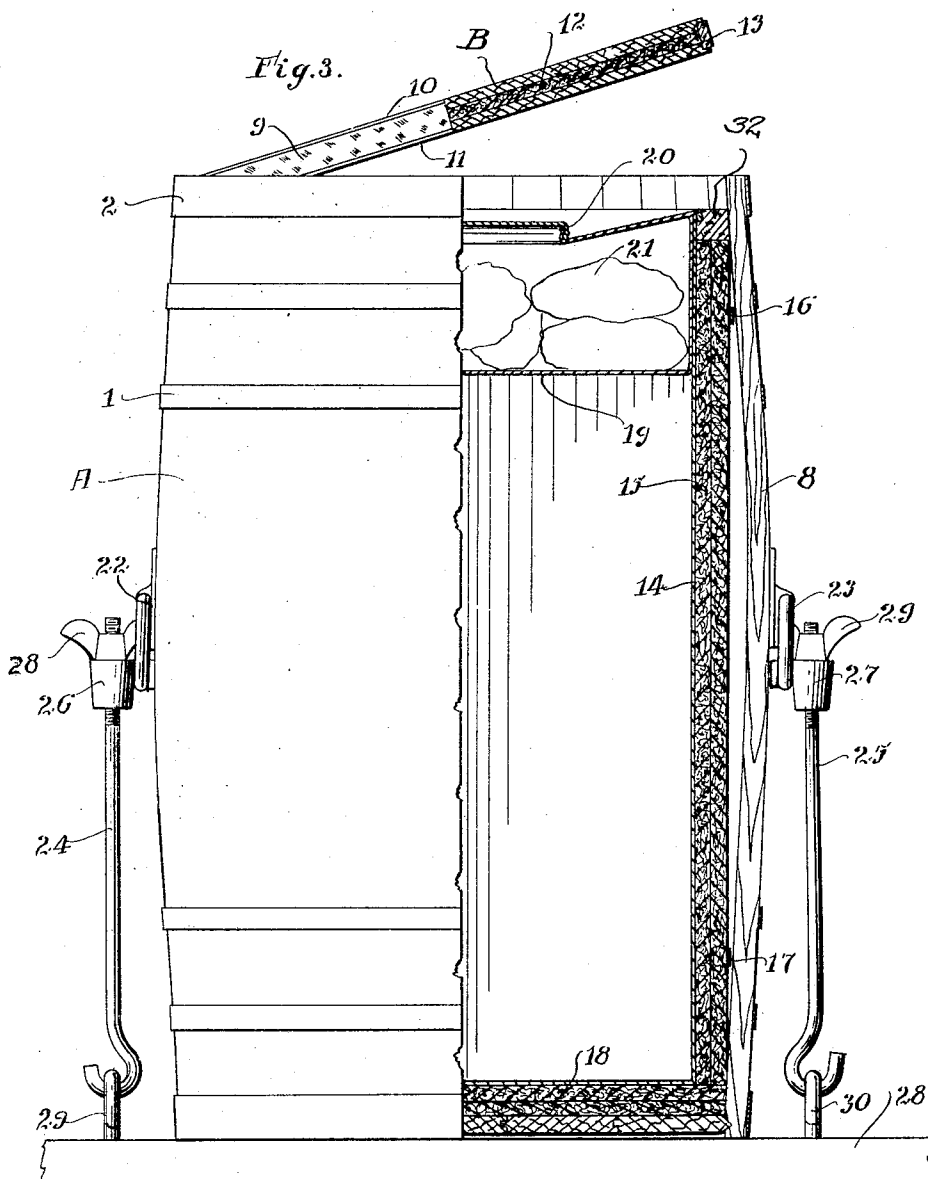
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UNITED STATES PATENT OFFICE

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REFRIGERATOR BARREL

Application filed August 2, 1929. Serial No. 388,032.

The present invention relates to a refrigerator barrel and more specifically to a refrigerator barrel which is adapted to be carried upon the running board of an automobile and to be used in camping.

An object of the present invention is to make an insulated refrigerator barrel having a readily removable cover which may be locked into position to effectively seal the head of the barrel.

In order to attain this object, there is provided, in accordance with one feature of the invention, a barrel having the upper hoop thereof constructed with a clamp locking mechanism, and having a head which may be effectively locked into position to effectively seal the head of the barrel against the passage of heat. An ice chamber is removably positioned in the upper portion of the barrel to provide a refrigerating medium for the contents thereof when in use. The walls of the barrel are lined with insulative material and a metal container is fitted into the interior of the barrel inside of the insulative lining of the barrel wall. A lock mechanism is provided to securely fasten the barrel to a support such as a running board of the automobile.

These and other features of the invention will be more fully brought out in the following description and the accompanying drawings wherein;

Figure 1 shows a plan view of a barrel refrigerator device made in accordance with the present invention.

Figure 2 is a view similar to Figure 1 with a portion of the barrel broken away to show the construction thereof and with the upper hoop locking mechanism shown in an unlocked position.

Figure 3 is a view in side elevation of the device mounted upon the running board of an automobile with portions of the device broken away to show the construction thereof.

Figure 4 is a view of a portion of an insulative lining material.

Referring to the drawings in detail, a barrel A is provided with the customary hoops 1 and with a special upper hoop 2. This

hoop is provided with lugs 3 and 4 upon each end thereof. A locking lever 5 is pivotally connected to the lug 3 and said lever is connected by means of a link 6 to the opposite locking lug 4. The locking lever 5 is shown in an open position in Figure 2 and in a closed position in Figure 1. To move the locking mechanism from the locking position shown in Figure 1 to the open position as shown in Figure 2 the locking lever 5 is raised and swung in a clockwise direction about the pivot 7 to separate the ends of the hoop. To move the locking mechanism from the open position of Figure 2 to the locking position as shown in Figure 1 the locking lever is rotated in a counter clock-wise direction and brought to a position closely adjacent the hoop, to draw the ends of the hoop together. In that position the upper ends of the staves 8 which comprise the side walls of the barrel are compressed about a cover member B which is inserted in the upper end of the barrel.

The cover member B as here illustrated is constructed with outer shell portions 10 and 11 of wood and with an inner insulative layer 12 secured between the shell portions 10 and 11. A cork rim 13 surrounds the head to seat against the inner sides of the upper ends of the staves to form an effective seal therewith against the passage of air and heat. Mounted interiorly of the barrel is a metal container 14. Around the sides of this metal container is provided a layer of insulative material 15 which may be of a fibrous material or of cork. This insulative material is secured to the metal container 14 as by means of metal bands 16 and 17. This insulative material is of a thickness to have a close fit within the barrel A. Similar insulative material 18 is provided across the lower end of the container 14 so as to form an effective refrigerating shield completely about the sides and bottom of the container 14.

An ice compartment 19 which is adapted to fit in the upper end of the container 14 is adapted to telescope into the upper end of the metal container 14. This compartment is provided with a removable cover 20 which threadedly engages the upper end of the con-

tainer 19 to form a comparatively water tight compartment for ice 21 which is inserted in the container 19 to provide a refrigerating medium.

5 Handles 22 and 23 are provided upon the sides of the barrel A for use in handling the device. A pair of anchor rods 24 and 25 having a threaded upper portion and hook shaped lower end portion are respectively provided
10 with removable hook members 26 and 27 which are slidably mounted upon each of the members 24 and 25. Wing nuts 28 and 29 are threadedly mounted on the threaded portions of the members 24 and 25 and rest upon the
15 upper surfaces of the slidable hook members 26 and 27 to force said slidable hooks downwardly upon the shanks of the members 24 and 25 respectively to engage the handles 22 and 23 to hold the barrel firmly in position
20 upon the support 28. A pair of eyelets 29 and 30 are secured to the support 28 to receive the hooked lower ends of the members 24 and 25 to provide an anchorage therefor.

25 Above the upper edge of the insulative material 15 which surrounds the container 14 is an annular ring 32 which may be of cork or other resilient, waterproof material. When the upper ends of the staves of the barrel are forced inwardly by the hoop 2 and associated locking mechanism, this ring 32
30 is compressed between the inner faces of the staves and the exterior surface of the container 14 to prevent moisture from getting down into the insulative material 15.

35 In using the device, the locking lever 5 is moved to the position shown in Figure 2 to release the hoop 2 from engagement with the upper ends of the staves 8 comprising the wall of the barrel. The cover B is then lifted
40 up as by means of a handle 31 and the ice container 19 is lifted out by means of a bail 33 which is provided on the top of the container. The cover 20 can then be unscrewed from the ice container 19 and said container
45 filled with ice or other suitable refrigerating medium. The provisions which it is intended to store in the refrigerator are then inserted in the metal container 14 and the ice compartment 19 is replaced as shown in Figure 3.

50 The cover 9 is then replaced in position as shown in Figure 2, the locking lever 5 is moved to the position shown in Figure 1 to draw the hoop 2 firmly about the upper end of the staves 8 to force the staves inwardly
55 into engagement with the periphery of the cover member 9. This effectively seals the head of the device and provides a deep insulated field across the upper end thereof. If it is desired to secure the device in position
60 upon a support such as the running board of an automobile, the clamps 24 and 25 are placed into position with the slidable hook members 26 and 27 engaging the handles 22 and 23 on the side of the barrel, the hook
65 shaped lower end of said clamp members be-

ing in hooked engagement with the eyelets 29 and 30 which are screwed or otherwise firmly secured to the support 28. The wing nuts 28 and 29 are screwed down so as to force the slidable hook members 26 and 27
70 downwardly upon the hooked clamp members 24 and 25. This forces the barrel firmly down against the support and effectively anchors it against displacement thereon.

75 The device comprises an effective refrigerating device for carrying food supplies and beverages on a trip such as a camping trip and also provides a suitable receptacle for carrying fish and game back on the return trip.
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I claim:

1. A refrigerator comprising a barrel, a container positioned therein, insulative packing between said container and said barrel wall, a container for a refrigerative medium
85 removably positioned in said first container, an insulative head removably positioned within the upper end of said barrel to overlie said first container, and a removable upper hoop mounted on said barrel and having
90 clamp means thereon to contract said hoop to lock said head in said barrel.

2. A refrigerator comprising a barrel, a container positioned therein, a sheet of insulative material surrounding said barrel to
95 lie between said container and said barrel, a resilient insulative sealing ring around the upper end of said container, a removable head positioned in the upper end of said barrel, and a removable upper hoop having a clamp
100 thereon to contract the upper end of said barrel around said head to lock it in position therein, and to force the upper end of said barrel into sealing engagement with said resilient ring.
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3. A refrigerator comprising a barrel, a container mounted therein and spaced inwardly therefrom, insulative means mounted between said container and said barrel, a resilient waterproof insulative ring around the
110 upper end of said container to lie between said container and said barrel, a removable head positioned in the upper end of said barrel, and a split hoop having a lever pivotally mounted on one end thereof and connected
115 by a link to the other end thereof, said hoop surrounding the upper end of said barrel to compress said barrel against said head and said resilient ring to lock said head in position therein and compress said ring to form
120 a water tight seal therewith.

4. A refrigerator comprising a barrel, a container mounted in said barrel and spaced inwardly therefrom, a sheet of insulative material secured exteriorly of said container to
125 substantially fill the space between said container and said barrel, a head removably mounted in said barrel to close the upper end thereof, said head having a layer of insulative material encased between an upper and
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lower rigid covering and having a rim of resilient insulative material to engage the inner surface of said barrel, and a clamp hoop surrounding the upper end of said barrel to compress said barrel around said head to lock said head in position therein.

5. A refrigerator barrel, comprising in combination a barrel, a metal container mounted therein and spaced inwardly from the walls thereof, a layer of insulative material surrounding said container, a plurality of bands surrounding said insulative material to secure it in position on said container, a resilient ring around the upper end of said container to fill the space between the container and said barrel, a removable insulative cover insertible in said barrel above said container, and a clamp ring surrounding the upper end of said barrel and operable to contract the upper end of said barrel into close engagement with said cover and to compress said resilient ring into sealing engagement with said container and the inner wall of said barrel.

In testimony whereof I affix my signature.

WILLIAM J. MURRAY.