No. 821,503. PATENTED MAY 22, 1906.

W. M. KEITH.

REFRIGERATOR.

APPLICATION FILED OCT. 31, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

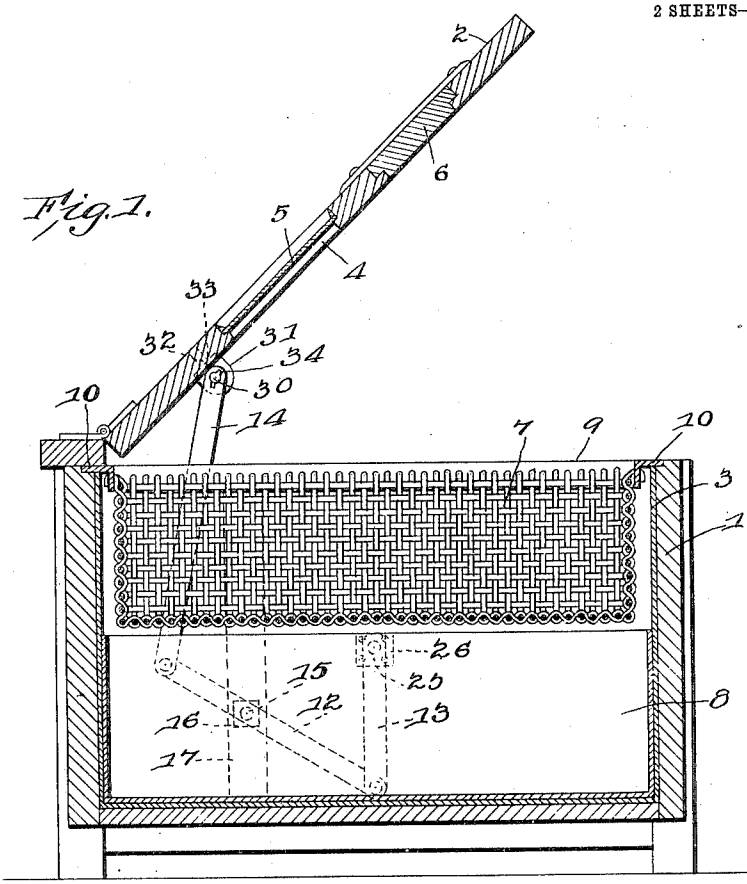
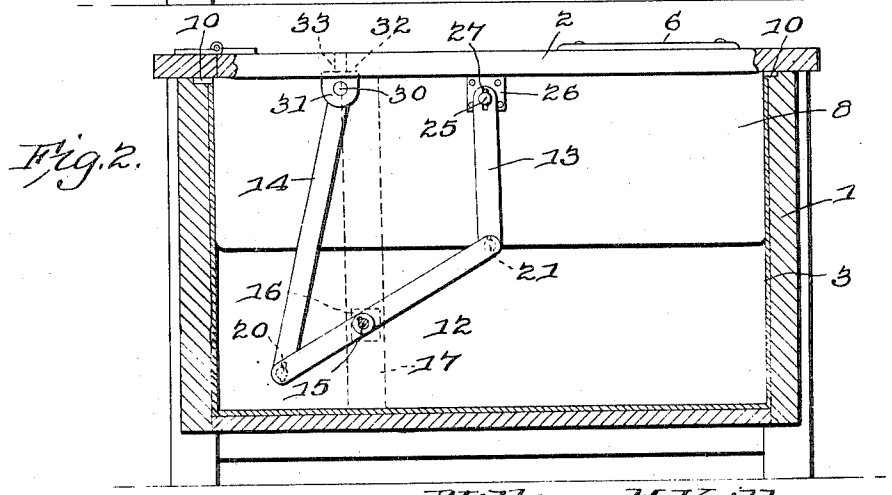


Fig. 2.



Witnesses:

E. J. Stewart

R. M. Smith

William M. Keith, Inventor,

by C. A. Snow & Co.

Attorneys.

No. 821,503. PATENTED MAY 22, 1906.

W. M. KEITH.

REFRIGERATOR.

APPLICATION FILED OCT. 31, 1905.

2 SHEETS—SHEET 2.

Fig. 3.

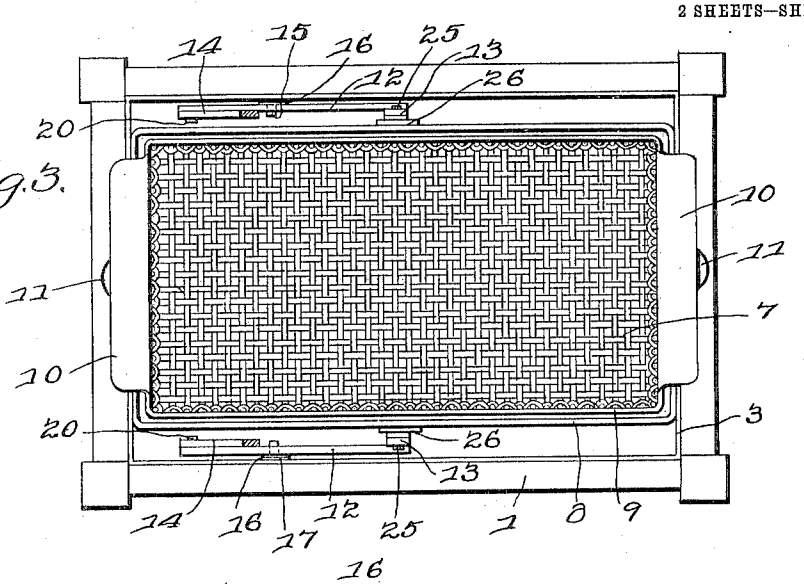
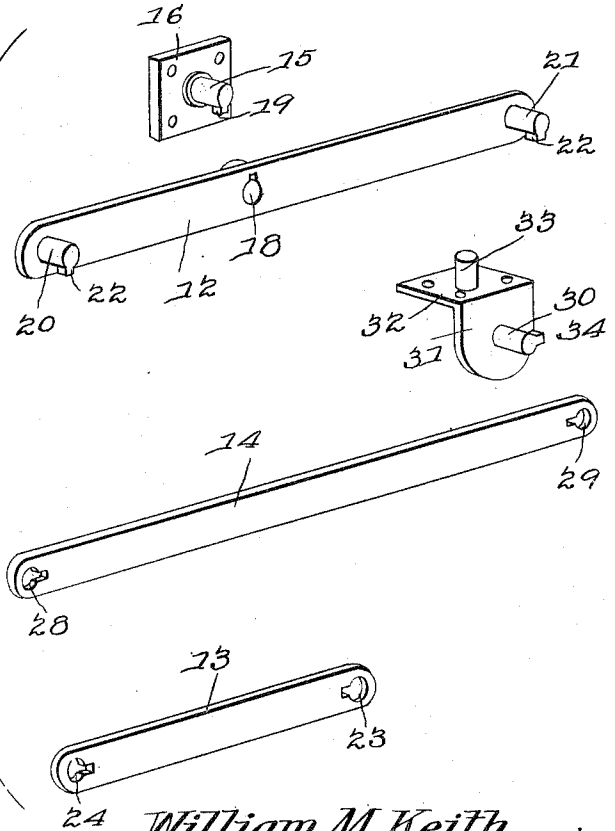


Fig. 4.



Witnesses:

E. F. Clarke

R. M. Elliott

William M. Keith, Inventor,

by C. A. Snow & Co

Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM M. KEITH, OF SHAWNEE, OKLAHOMA TERRITORY, ASSIGNOR TO JOHN W. BEAZLEY, OF SHAWNEE, OKLAHOMA TERRITORY.

REFRIGERATOR.

No. 821,503. Specification of Letters Patent. Patented May 22, 1906.

Application filed October 31, 1905. Serial No. 285,289.

To all whom it may concern:

Be it known that I, WILLIAM M. KEITH, a citizen of the United States, residing at Shawnee, in the county of Pottawatomie and Territory of Oklahoma, have invented a new and useful Refrigerator, of which the following is a specification.

This invention relates generally to refrigerators, and more particularly to one adapted for keeping cool bottled goods, such as beer, wine, and the like.

The common procedure of keeping beer cool is to place the bottles containing the same in a tub partly filled with ice and water. This arrangement necessitates the plunging of the hand into the cold water every time a bottle is to be removed, and this is not only objectionable owing to the discomfort ensuing and the necessity of drying the hands each time, but is also liable to produce rheumatism or other muscular disorders.

It is the object of the present invention in a simple, ready, thoroughly-feasible, and practical manner to obviate the above objectionable features and at the same time to keep the goods in the best possible condition for use.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists in a refrigerator for bottled goods comprising a stationary holder, a refrigerating-tank, and a cover connected by interposed mechanism with the refrigerating-tank in such manner that when the cover of the refrigerator is opened the tank will be moved away from the holder and upon the cover being closed it will again house the holder.

The invention consists, further, in the various novel details of construction of a refrigerator for bottled goods, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like characters of reference indicate corresponding parts, Figure 1 is a view in transverse section through a refrigerator constructed in accordance with the present invention, exhibiting the position of the parts when the cover is raised to permit access to the interior of the box. Fig. 2 is a similar view showing the position of the parts when the cover is closed. Fig. 3 is a top plan view, partly in section, the cover being omitted. Fig. 4 is a collective detail view exhibiting in perspective certain of the operative parts of the apparatus.

Referring to the drawings, 1 designates the box or shell of the refrigerator, and 2 the cover or lid therefor. The shell may be made of any suitable material, preferably of wood, and has a lining 3, preferably of zinc, as usual. The cover may also be made of any suitable material and is provided with an opening 4, in which is secured a pane of glass 5. The cover also has combined with it a weight 6, the function of which will appear later on.

Arranged within the shell is a reticulated or open-work holder 7 and a tank 8. The holder 7, which may be made of heavy wire, is rectangular in shape and is supported by a frame 9, which, as shown in Fig. 3, is provided at each end with a flange or extension 10, adapted to engage seats in the upper edges of the ends of the shell, the said ends being provided with recesses 11 to permit the insertion of a suitable implement beneath the flanges to remove the holder from the shell when desired. The holder may be combined with the frame in any preferred manner, as by being soldered thereto, or the ends of the wire composing it may be inserted through suitable orifices in the frame and upset or riveted.

The tank 8 is preferably made of galvanized iron and is commensurate in length and width with the interior of the shell, whereas the holder is of less length and width than the shell, this arrangement being necessary in order to permit the tank to house the holder when the cover is closed, as clearly shown in Fig. 2. The tank is adapted to contain iced water or any other suitable refrigerant and is moved to and from the holder when the cover is closed and opened, these movements of the tank serving on the opening of the cover to free the holder of the refrigerant and when the cover is closed again to submerge the holder in the refrigerant.

Various means may be adopted for actuating the tank in the manner described, the mechanism now to be described being adapted for the purpose and being one of many that may be employed.

The tank raising and lowering mechanism embodies a pair of levers 12 and two pairs of links 13 and 14. Each lever is fulcrumed in-

termediate of its ends upon a stud 15, carried by a plate 16, that is secured to a batten 17, disposed on the inner side of the shell, the orifice 18, through which the stud projects, being keyhole-shaped and the stud being provided with a teat 19 at its outer end, which will operate to prevent separation of the lever therefrom. When the lever and stud are assembled, the teat will be disposed in the opposite direction to the slot of the keyhole-opening to effect the object designed. At each end of the lever and projecting at right angles thereto is a stud 20 and 21, respectively, each of which is provided with a teat 22. The stud 21 is engaged by the lower end of the link 13, which is provided with a keyhole-opening 23 for the purpose, the upper end of the link being provided with a similar opening 24, which engages with the stud 25, carried by a plate 26, secured to the outer side of the tank, and said stud is provided with a teat 27 for preventing accidental separation of the link therefrom. The stud 20 of the lever is engaged by the lower end of the link 14, which is provided with a keyhole-opening 28 for the purpose, the upper end of the link being provided with a keyhole-opening 29, that engages with a stud 30, carried by the arm 31 of a plate 32, that is secured to the under side of the cover, the plate being provided with a dowel 33 to be seated in the cover, and thus brace the plate against yielding to strains. The stud 30 is provided with a teat 34, which will positively prevent disconnection of the lever 14 therefrom.

It will be seen that the weight of the chamber when it is partially filled with water and ice will be greater than that of the cover, so that the tendency will be for the tank always to rest upon the bottom of the shell, and thus hold the cover raised. To obviate this, the weight 6 is provided, which will be effective in counterbalancing the tank, and thus permit the cover always to remain closed when desired.

In the use of the apparatus the holder is first removed, and ice and water are placed in the chamber. The holder is then replaced and the bottled goods placed therein. When the cover is closed, the tank will by the arrangement of links and levers described be raised and house the holder and its contents, as shown in Fig. 2. When the cover is raised, the tank will descend, thereby leaving the bottles free to be removed without the necessity of dipping the hands into water.

Having thus described the invention, what is claimed is—

1. A refrigerator comprising a shell, a stationary open-work holder therein, and a refrigerating-tank movable to and from the holder.

2. In a refrigerator, a stationary open-work holder, a refrigerating-tank, and mechanism connecting the tank and the cover of the refrigerator, whereby when the cover is raised, the tank will be moved away from the holder and when closed will be caused to house it.

3. A refrigerator comprising a shell, a removable open-work holder, normally stationary relatively to the shell, a refrigerating-tank, a cover hinged to the shell, a pair of pivoted levers, and links connecting the cover and tank with the levers.

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

WILLIAM M. KEITH.

Witnesses:
J. C. PARKER,
OMER THOMPSON.