March 10, 1925. 1,529,032

C. F. MEISNER ET AL

ICE CONTAINER HOLDER FOR REFRIGERATORS AND THE LIKE

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Fig. 1

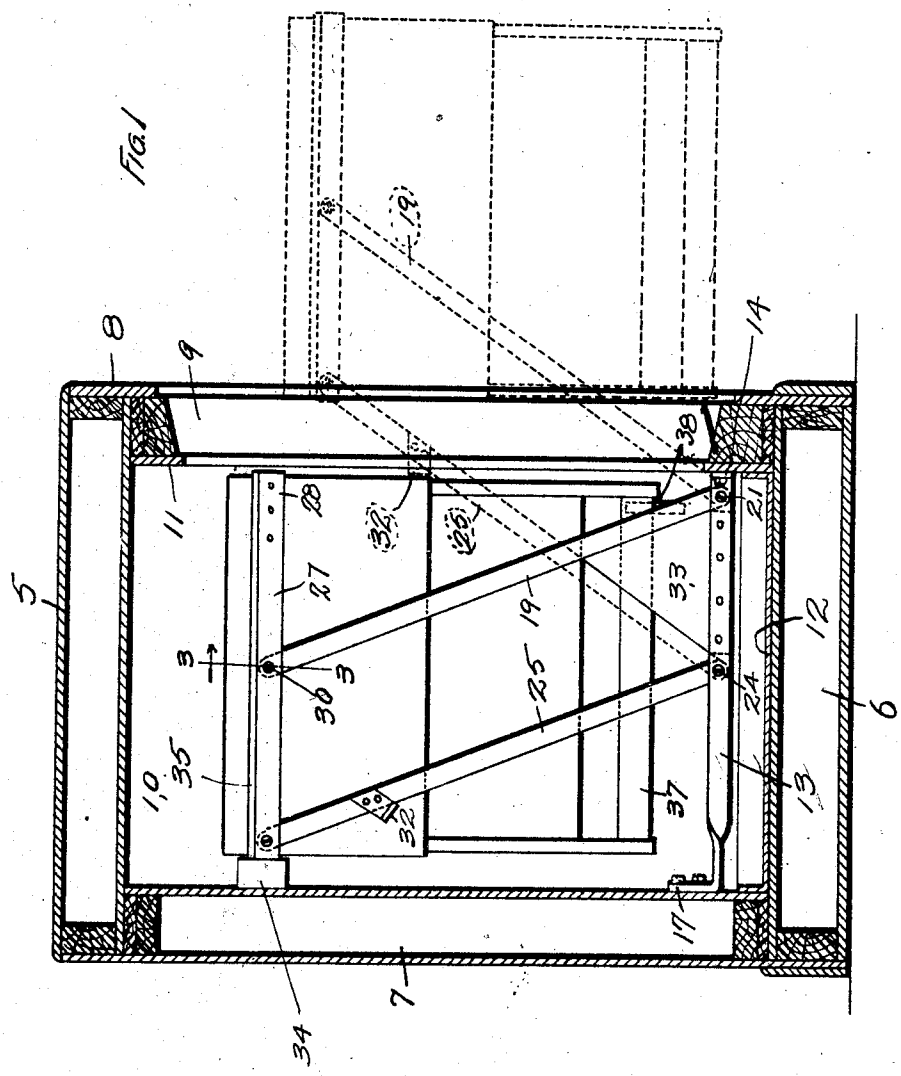

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FIG. 2.

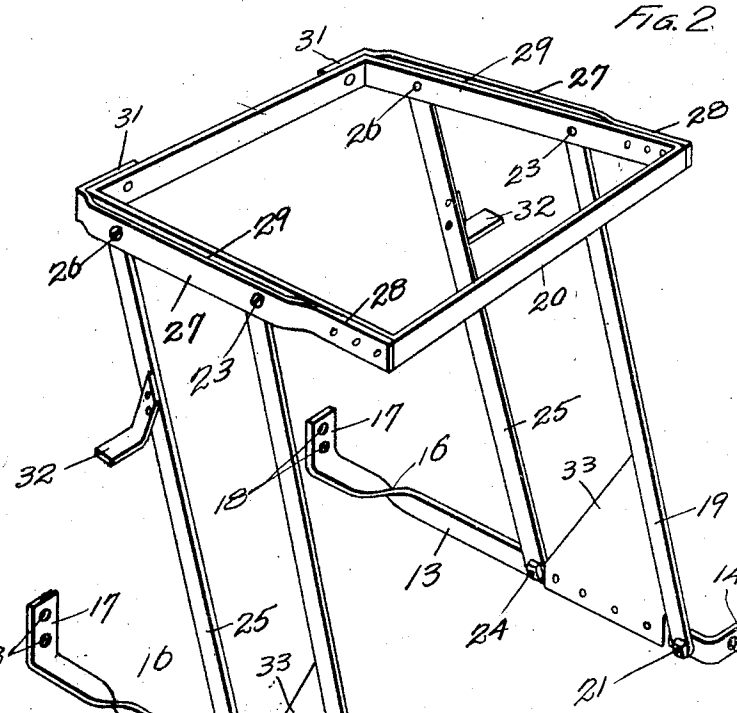

FIG. 3

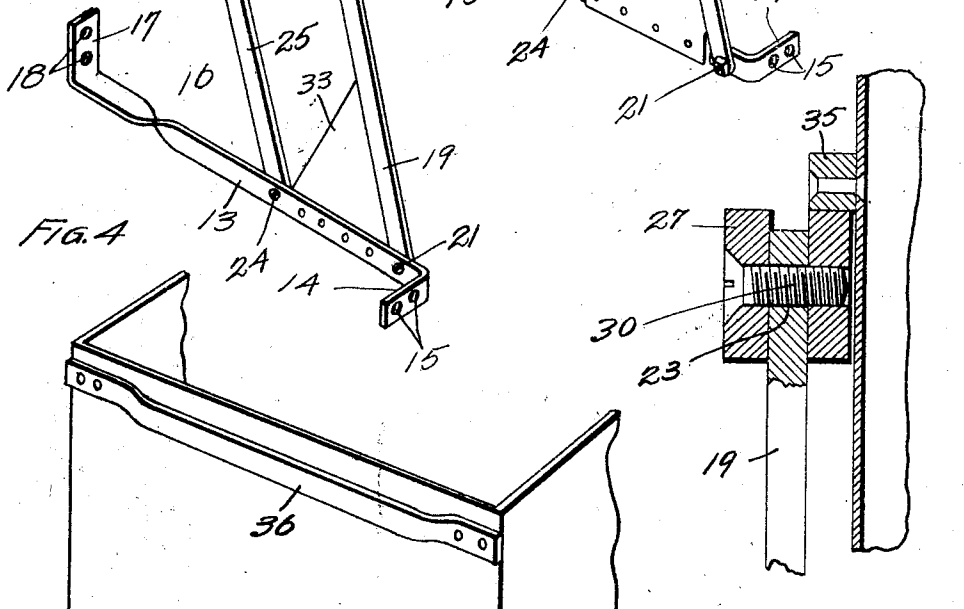

FIG. 4

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UNITED STATES PATENT OFFICE.

CHARLES F. MEISNER AND MORITZ REINOLDT, OF ST. LOUIS, MISSOURI, ASSIGNORS TO ST. LOUIS BUTCHERS' AND HOTEL SUPPLY COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF MISSOURI.

ICE-CONTAINER HOLDER FOR REFRIGERATORS AND THE LIKE.

Application filed August 8, 1921. Serial No. 490,787.

To all whom it may concern:

Be it known that we, CHARLES F. MEISNER and MORITZ REINOLDT, citizens of the United States, and residents of the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Ice-Container Holders for Refrigerators and the like, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part thereof.

Our invention relates to improvements in ice container holders for refrigerators and has for its primary object an ice container holder which is adapted to move in and out of a refrigerator or similar structure so that access can be readily had to the container.

A further object is to construct an ice container holder which is mounted on pivoted links so that the ice container held thereby can be moved in and out of the casing and always remain in a horizontal position.

A still further object is to construct an ice container holder which can be moved in and out of a refrigerator and which is so arranged as to have its outward and inward movement limited so that it can only be withdrawn or inserted a predetermined distance.

In the drawings—

Fig. 1 is a vertical cross section through the ice chamber of a refrigerator showing our improved device in position.

Fig. 2 a perspective view of the ice container holder.

Fig. 3 an enlarged fragmental section taken on the line 3—3 of Fig. 1, and viewed in the direction of the arrow.

Fig. 4 a fragmental perspective view of an ice container showing a modified form of guide.

In the construction of our device we employ a refrigerator having a top 5, a bottom 6, a back 7 and a front 8. The front 8 is provided with a door opening 9. This opening being somewhat smaller than the chamber 10 formed in the refrigerator, thus leaving a wall 11 extending completely around the opening. Located in the bottom of the chamber 10 is a drip pan 12. This drip pan is constructed in the ordinary manner and is connected to the sewer for the waste water. This drip pan being of ordinary construction will not be described in detail.

Secured to the walls 7 and 8 are bars 13. These bars are of ordinary strap iron and have their ends 14 bent at right angles as is clearly illustrated in Fig. 2, the portion 14 being provided with openings 15 by means of which the bars 13 are secured to the wall 8. The rear ends of the bars 13 are provided with a quarter twist 16 and with rightangular portions 17. These portions are provided with openings 18 for securing the bars to the wall 7. Pivoted near the front end of the bars are links 19 which have their upper ends pivoted to a rectangular frame 20. The links 19 are pivoted to the bars 13 at the point indicated by the numeral 21 and to the frame 20 at the point indicated by the numeral 23. Pivoted to the bars 13 at the point indicated by the numeral 24 are links 25 which have their opposite ends pivoted to the frame 20 at the point indicated by the numeral 26. The frame 20 has secured to two sides, the guide bars 27. These guide bars have a portion thereof lying along the frame 20 as indicated at 28 and portions therefrom spaced apart forming a slot 29 and in this slot the ends of the links 19 and 25 are inserted and then the screws 30 are secured. This secures the links 19 and 25 pivotally within the slot and also secures the guide bars 27 so that they are prevented from spreading. The rear end 31 of each guide bar is brought around the frame (for a portion of its distance see Fig. 2,) and then riveted thereto.

Secured to the links 25 are stops or hooks 32 which are designed to come in contact with the portion 11 of the wall 8 and prevent the holder from moving forward too far. In addition to the hooks 32 we also employ triangular plates 33 which are secured to the bars 13 between the links 19 and 25, the inclined faces of these stops limiting the movement of the links 19 and 25. (See Figs. 1 and 2.) On the rear wall 7 of the refrigerator is placed a block 34. This also acts as a stop when the ice container is inserted, the object of the stops 32 and 34 being to relieve the strain on the triangular plates 33. They are also useful in case the ice container shifts slightly, which might cause a springing or bending of the links 19 and 25 and cause them to ride past the stop 33. The ice container has secured around it and near its upper edge a

flange 35 which rests on top of the frame 20 and prevents the ice container from passing therethrough. We may, however, dispense with the guide members 27 which are secured to the frame 20 and also with the flange 35 and in place of these two members use the guide members 36. These guide members have their two ends secured to the ice container and the central portion thereof is bent or spaced away. (See Fig. 4.) The guide members 27 and 36 are intended to make contact with the sides of the door opening 9 in the event that the container should swing sidewise while being moved.

The member 36 not only acts as a guide but also as a support for the ice container. When our ice container is used in a refrigerator we employ the auxiliary drip pan 37 which is provided with a drain pipe 38 for conducting the drippings into the drip pan 12, but when the ice container is withdrawn, the pipe 38 is closed by means of a cork so that it prevents drippings getting on the floor.

We may also if desired pivot the upper ends of the links 19 and 25 directly to the ice container instead of pivoting them to the frame 20. By this construction, of course, it is impossible to remove the ice container from the levers as with the construction previously described, but there are certain sections in the country where the device is used where it is not desirable to remove the ice container.

Having fully described our invention, what we claim is:

1. An ice container holder comprising a refrigerator having an ice chamber, bars secured in said ice chamber near its bottom, links having their lower ends thereof pivotally secured to said bars, a frame pivotally secured to the upper ends of said links, an ice container removably carried by said frame, and triangular plates located between said links adjacent their lower ends, certain of said links adapted to contact with one edge of said plates for limiting the outward movement of said links and on the alternate edge with the remainder of said links for limiting the inward movement.

2. An ice container holder comprising a refrigerator having an ice chamber, bars secured in said ice chamber near its bottom, a frame, a plurality of links pivotally secured at their ends to said bars and said frame, an ice container having a flange adjacent its upper edge removably carried by said frame, and triangular plates secured to said bars between said links, said plates adapted to contact on alternate edges with certain of said links so as to limit the movement of said links and the movement of the frame and container carried thereby into and out of the refrigerator.

3. An ice container holder comprising a refrigerator having an ice chamber, a frame, an ice container having a flange near its upper end removably supported thereby, bars secured in said ice chamber near its bottom, a plurality of links having one end pivotally secured to said bars in spaced apart position, their opposite ends similarly secured to said frame, and triangular plates carried by said bars and located between said links at their lower ends and adapted to contact with said links alternately for limiting the forward and backward movement of said contacted links.

4. An ice container holder comprising a refrigerator having an ice chamber, bars secured in said chamber adjacent its bottom, a plurality of links pivoted at one end in spaced apart pairs secured to said bars, a frame pivotally secured to the other end of said links, triangular plates carried by said bars and between said links, said plates adapted to contact on their inclined edges alternately with certain of said links and limit the movement of said links and guides carried by said frame for guiding the same into and out of the ice chamber.

5. An ice container holder comprising a refrigerator having an ice chamber, bars secured in said ice chamber near its bottom, a plurality of links arranged in pairs and having one end pivotally secured to said bars, a rectangular frame pivotally secured to the other end of said links, a triangular plate carried by each of said bars and between each pair of links and adapted to have its alternate inclined edges contact with certain of said links whereby the pivotal movement of said links is limited, an ice container removably carried by said frame, and guides carried by the container and projecting beyond said frame on two sides for guiding the same into and out of said ice chamber, said guides also supporting the container.

6. An ice container holder comprising a refrigerator having an ice chamber, bars secured to two walls thereof adjacent the bottom of said chamber, a pair of links having one end pivotally secured to each of said bars, a frame pivotally secured to the opposite end of said links, an ice container removably carried by said frame, a triangular plate carried by each of said bars and located between the pairs of links carried by each bar and adapted to have their front and rear edges contact alternately with adjacent links for limiting the movement of said links, and guides extending beyond two opposite sides of said frame for guiding the container and frame into and out of said ice chamber.

7. An ice container holder comprising a refrigerator having an ice chamber, parallel bars secured in said ice chamber near its bottom, a frame, a plurality of links ar-

ranged in pairs and having their ends pivotally secured to said bars and frame, a container provided with flanges carried by said frame, triangular plates secured to said bars and adapted to contact on their rear inclined edges with certain of said links for limiting their forward movement and to contact on their front inclined edges with the remaining links to limit their backward movement, and guides carried by said frame and spaced apart therefrom for guiding said frame and container into and out of the ice chamber.

8. An ice container holder comprising a refrigerator having an ice chamber, bars secured in said chamber near its bottom, an ice container, a plurality of links, said links having their lower ends pivotally attached to said bars, a frame pivotally carried by the upper ends of said links, said frame adapted to receive and hold the container, and triangular plates carried by said bars and located between the links, said plates adapted to contact on their rear inclined edges with some of said links for limiting the forward movement of the container and holder, and on their front inclined edge with adjacent links for limiting the backward movement of said container and holder.

9. An ice container holder comprising a refrigerator having an ice chamber, a plurality of links arranged in pairs on two sides thereof, said links having their lower ends pivotally secured within the ice chamber, an ice container pivotally secured to the opposite ends of said links, triangular plates located within the ice chamber and between the lower ends of said links for limiting the forward and backward movement of certain of said links by having their front and rear inclined edges contacting alternately with adjacent links, and guides carried by said ice container for guiding said container into and out of the ice chamber.

10. An ice container holder comprising a refrigerator having an ice chamber, an ice container, bars secured in said ice chamber near its bottom, a plurality of links pivotally secured at their lower ends in pairs to said bars, their upper ends pivotally attached to said container, and a triangular plate secured to each of said bars and between the lower ends of links carried thereby for limiting the movement of the said links by having their front and rear inclined edges contacting alternately with adjacent links whereby the movement of the ice container in and out of the ice chamber is regulated.

11. An ice container holder comprising a refrigerator having an ice chamber, an ice container, and a plurality of links, said links arranged in pairs and having their upper ends pivotally secured to the container on its sides, their lower ends being pivotally secured within the ice chamber, a triangular plate located within the ice chamber and between the lower end of the pairs of links for limiting the movement thereof by having their front and rear inclined edges contacting alternately with adjacent links whereby the movement of the ice container into and out of the ice chamber is controlled.

12. An ice container holder comprising a refrigerator having an ice chamber, bars secured in said ice chamber near its bottom, an ice container, and a plurality of links arranged in pairs, said links having their lower ends pivotally attached to said bar, their upper ends pivotally attached to the container, triangular plates interposed between the pairs of links at their lower ends for limiting their movement and the movement of the container in and out of the ice chamber by having their front and rear inclined edges contacting alternately with adjacent links and guides secured to the container for guiding it in and out of the ice chamber.

In testimony whereof, we have signed our names to this specification.

CHARLES F. MEISNER.
MORITZ REINOLDT.