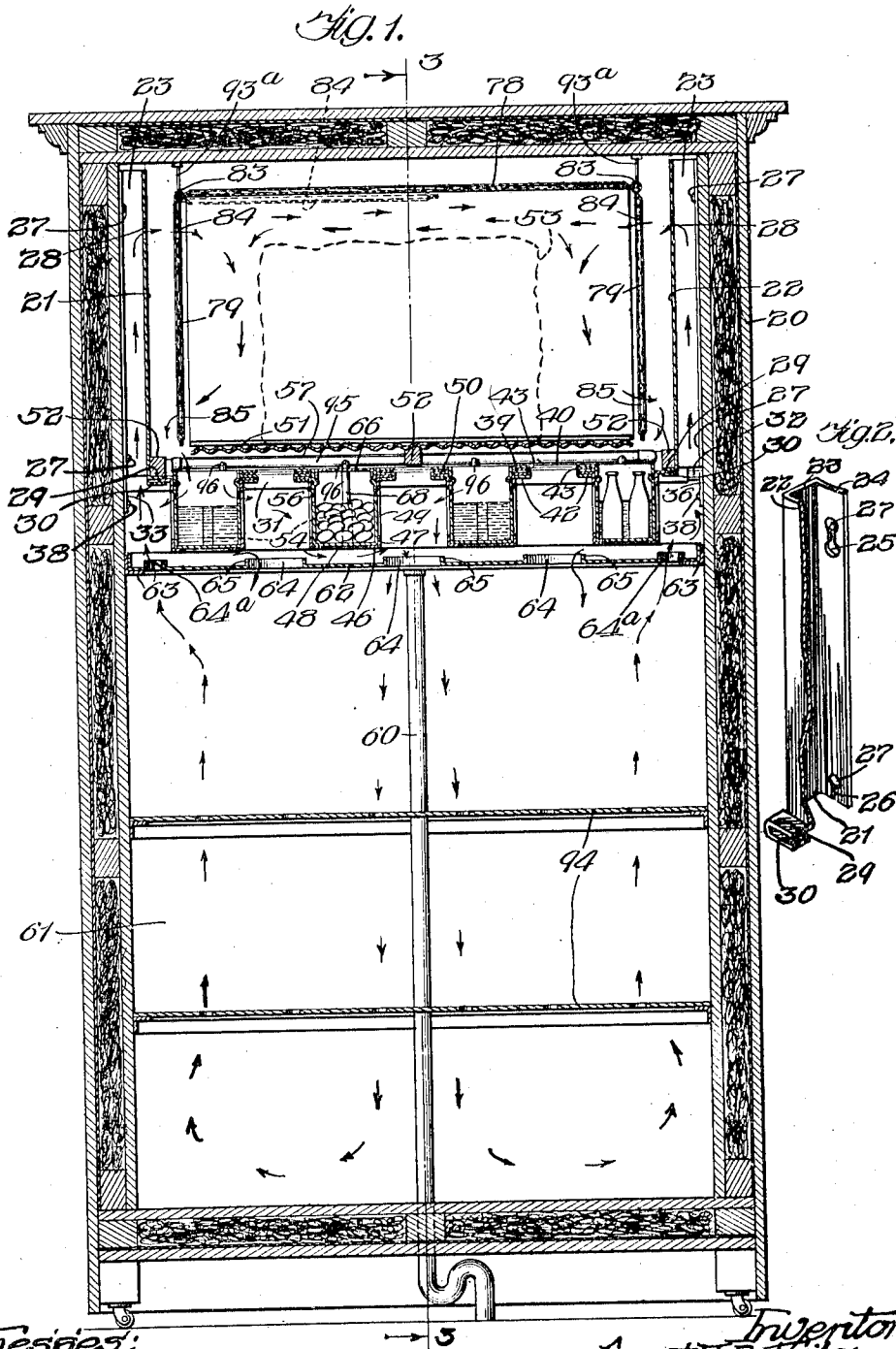


F. V. DETWILER.
REFRIGERATOR.
APPLICATION FILED MAY. 28, 1909.

1,048,504.

Patented Dec. 31, 1912.

3 SHEETS—SHEET 1.



Witnesses:
J. H. Perry
J. H. Gochman Jr.

Inventor:
Forest V. Detwiler.
by Brown & O'Connell
Attorneys

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3 SHEETS—SHEET 2.

Fig. 2.

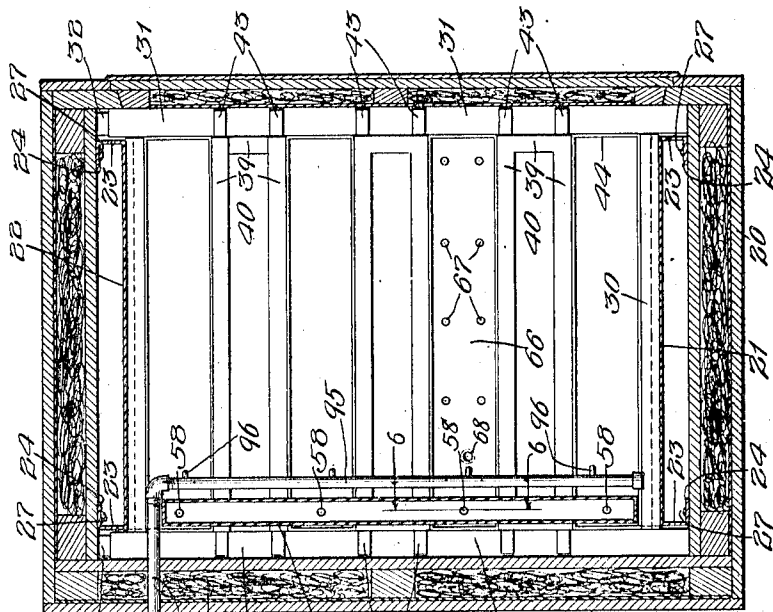
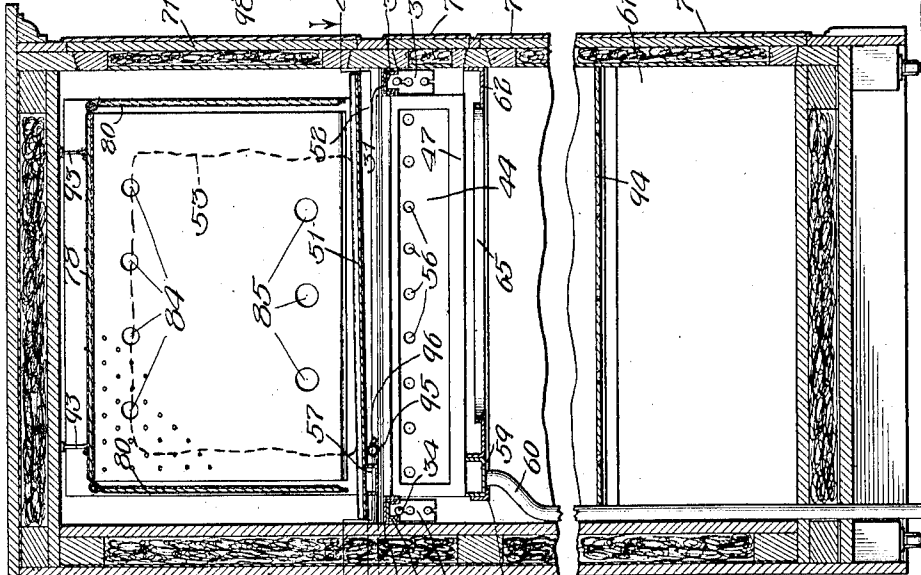


Fig. 3.



Witnesses:
Wm. D. Perry
J. H. Gochman Jr.

Inventor:
Forest V. Detwiler.
by Brown & Hopkins
Attorneys

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3 SHEETS—SHEET 3.

1,048,504.

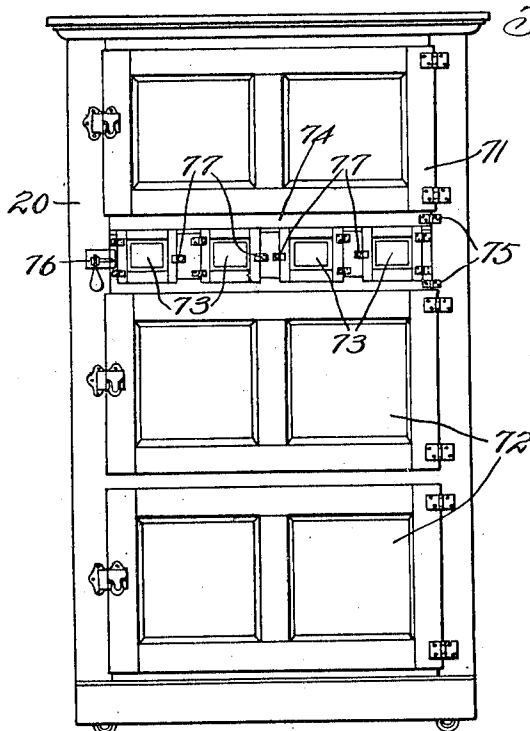


Fig. 5.

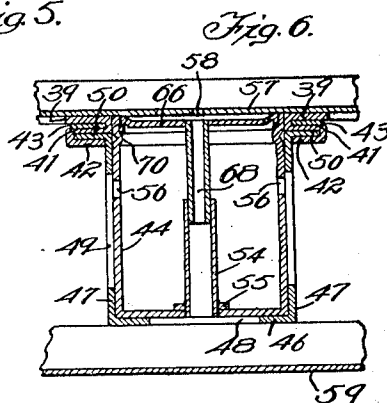


Fig. 6.

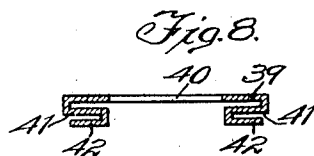


Fig. 8.

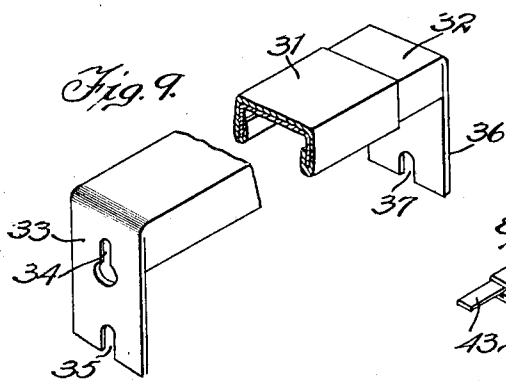


Fig. 9.

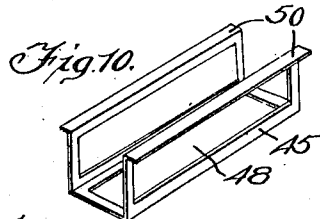


Fig. 10.

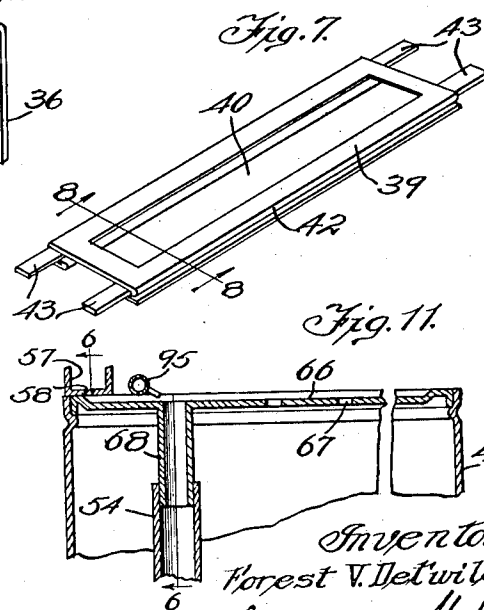


Fig. 7.

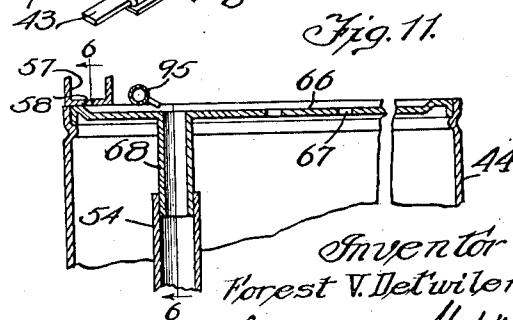


Fig. 11.

Witnesses:
R. Bauerle.
W. P. Kilroy.

Inventor
Forest V. Detwiler
By Brown & Hopkins
Attys.

UNITED STATES PATENT OFFICE.

FOREST V. DETWILER, OF CHICAGO, ILLINOIS.

REFRIGERATOR.

1,048,504.

Specification of Letters Patent.

Patented Dec. 31, 1912.

Application filed May 28, 1909. Serial No. 498,982

To all whom it may concern:

Be it known that I, FOREST V. DETWILER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Refrigerators, of which the following is a specification.

This invention relates to improvements in refrigerators in general and has for one of its objects to provide improved attachments for refrigerators comprising one or more individual and removable pans or article receptacles, which are supported in any convenient position to receive a supply of cooling fluid and into which various articles may be placed, and improved means whereby access may be had to any one or more of the pans or receptacles without interfering with the others.

A further object is to provide improved means whereby the drip water from the ice may be conducted into the pans or receptacles, and improved means whereby the height of the water may be regulated at will in any of the pans or receptacles without varying the water level in the other pans or receptacles.

A further object is to provide improved means for preventing the drip water from entering or accumulating in any one or more of the pans or receptacles.

A further object is to provide improved means for removably supporting and securing the pans or receptacles in position.

A further object is to provide an improved device of this character which may be readily applied to any form of refrigerator and to refrigerators which have already been constructed without materially changing or altering the construction of the refrigerators.

A further object is to provide an improved device of this character which will be simple, durable, cheap and compact in construction and effective and efficient in operation.

To the attainment of these ends and the accomplishment of other new and useful objects, as will appear, the invention consists in the features of novelty in the construction, combination and arrangement of the several parts hereinafter more fully described and claimed and shown in the accompanying drawings illustrating the embodiment of the invention, and in which—

Figure 1 is a longitudinal sectional view of a refrigerator having an improved at-

tachment applied thereto constructed in accordance with the principles of this invention. Fig. 2 is a detail perspective view of one of the partitions for assisting in supporting the attachment and for forming air circulation passages. Fig. 3 is a sectional view on line 3—3 of Fig. 1 with part of the casing broken away. Fig. 4 is a sectional view on line 4—4 of Fig. 3. Fig. 5 is a front elevation of the outer casing of the refrigerator. Fig. 6 is an enlarged detail sectional view on line 6—6 of Fig. 11. Fig. 7 is a detail perspective view of one of the supports and spacing members for the supporting frames of the article receptacles. Fig. 8 is a sectional view on line 8—8 of Fig. 7 with parts removed. Fig. 9 is a detail perspective view partly broken away and partly in section of one of the telescoping or extensible supports for the receptacle. Fig. 10 is a detail perspective view of one of the supporting frames or casings for the individual article receptacles or pans. Fig. 11 is a sectional view of a detail.

Referring more particularly to the drawings and in the present exemplification of the invention, the numeral 20 designates an inclosing casing which may be of any desired construction and of any size and configuration, but in the present exemplification of the invention the casing is shown as being rectangular in cross section.

Arranged within the casing and adjacent the top thereof are partitions 21, 22, which are constructed of any suitable material, such as metal or the like. These partitions are of a length to extend from the front to the back wall of the casing and the ends thereof are bent as at 23 to form laterally projecting flanges arranged at substantially right angles to the body portions of the partition. These deflected portions 23 may be of any desired length according to the distance it is desired to space the partitions from the adjacent walls of the casing. The extremities of these deflected portions 21 are deflected as at 24 so as to extend substantially parallel with the body portions of the respective partitions, and these deflected portions 24 are provided with apertures 25, preferably adjacent the top end thereof and which apertures are preferably in the form of key-hole slots. The deflected portions 24 are also provided with slots or openings 26 adjacent the lower end thereof and the partitions are held in position by means of fas-

tening bolts or headed members 27 which are secured to the inner walls of the casing and are adapted to project through the respective slots 25, 26, so that the shanks will enter the reduced portions of the slots so that the end of the slots will engage and rest upon the shanks and the heads will rest against the inner faces of the portions 24. When the partitions thus formed are placed in position, their upper extremities will terminate short of the top of the casing to permit the partitions to be adjusted whereby they may be readily inserted or removed.

The body portions of the partitions may be provided with air circulation openings 28 adjacent the top edges thereof. These partitions may be of any desired height according to the size of ice compartment or chamber it is desired to provide when the refrigerator is being constructed. If it is intended to place this improved attachment within a refrigerator already constructed the height of the partition will be governed by the size of the ice chamber already in the refrigerator. The lower end of the body portions of the partitions 21, 22, are deflected laterally as at 29 (see Fig. 2) and the extremities of these deflected portions are bent upon themselves as at 30 to form supporting lips.

Arranged within the casing and adjacent the lower edges of the partitions are extensible supports (see Fig. 9) which supports preferably comprise members 31, 32, which telescope with each other and are preferably of channel-shaped formation. The extremity 33 of the member 31 is bent or deflected downwardly as shown and is provided with an aperture 34, preferably in the form of a key-hole slot and an open notch or recess 35. The free extremity 36 of the member 32 is also deflected downwardly as shown and is substantially parallel with the extremity 33 of the member 31. This extremity 36 is also provided with suitable slots or openings 37 similar to the extremity 33. Two of these extensible supports are provided in the present exemplification of the invention and one is arranged to extend across the front of the casing and the other across the rear of the casing adjacent the rear wall and these supports are secured in position by means of suitable bolts or fastening devices 38 in the walls of the casing which are similar to the bolts or fastening devices 27 and which cooperate with the slots and openings 34, 35, 37, whereby the supports will be removably held in position. When thus secured in position the tops of the supports thus formed will stand substantially flush with the tops of the lips or deflected portions 29 on the partitions 21, 22, for a purpose to be set forth.

Spacing members designated generally by

the reference numeral 39 comprise a body portion having an opening 40 therethrough and intermediate its ends. These spacing members are of a length substantially equal to the depth of the casing from the front to the rear wall thereof, and the sides of these members 39 are deflected and bent upon themselves as at 41, 42, shown more clearly in Figs. 9 and 10. Arranged within the space formed by the body portion and the deflected portions 41 are bars or members 43 which are held from displacement in any desired or suitable manner preferably by clamping the portions of the member 39 thereagainst. These bars or members 43 are of a length somewhat greater than the length of the body portion of the spacing members 39 so that when the spacing members are placed in position to extend across the space between the extensible supports at the front and rear of the casing, the ends of the members 39 will stand adjacent the respective supports so that the body portions or upper face thereof will stand substantially flush with the faces of the extensible supports and the extremities of the bars or members 43 will rest upon the supports for holding the members 39 against longitudinal displacement. Any number of these supporting members may be provided according to the number of individual pans or article receptacles 44 which are employed. In the present exemplification of the invention four of such pans or receptacles are shown and three of such spacing members. The extremities 42 of the spacing members are deflected away from each other, as shown, so that the deflected portions of one member will cooperate with corresponding deflected portions of the next adjacent member. The deflected portions 42 of the outermost spacing members cooperate with the deflected portions 29, 30 of the partitions 21, 22, as will be understood.

In order to support the pans or receptacles 44, suitable supporting frames designated generally by the reference numeral 45 in Fig. 10 are provided, one frame for each of the pans or receptacles. These frames 45 preferably comprise a base 46 and side walls 47, the base 46 being provided with an opening 48 and the sides being provided with openings 49. These frames may be of any desired size and configuration according to the size and configuration of the pans or receptacles 44, but the frames should be of such a size as to snugly hold the pans or receptacles when the latter are placed one within each of the frames.

The upper extremities of the sides 47 are deflected laterally as at 50 to form flanges which preferably extend the entire length of the sides and these flanges 50 are adapted to enter the spaces formed between the deflected portions 42 of the members 39 and

the deflected portions 41 thereof. The flange on the wall 50 of the outermost frame is adapted to enter the space formed between the deflected portions 29, 30 on the respective partitions 21, 22, and the space between the deflected portions 29, 30, of the partitions 21, 22, is slightly greater than the combined length of the spacing members 39 and the flanges 50 on the frames 45 so as to permit the ready insertion and removal of the frames and spacing members, as will be understood. The frames are preferably of a length to substantially fill the space between the front and rear walls of the casing.

An ice supporting rack 51 is provided which may be of any desired configuration and construction and is held in position by means of suitable supports 52, which latter are also held in position in any desired or suitable manner above the frames 45, preferably by engaging and resting upon the deflected portions 29 of the partitions 21, 22, and adjacent the partitions, and if desired an additional support may be provided at the center of the rack, which latter may be held in position by resting upon the respective spacing member 39 and the ice 53 rests upon this support in such a manner as to be spaced a short distance above the tops of the frames 45.

The individual article receptacles or pans 44 may be constructed of any desirable or suitable material, as may also the frames 45, and each of the pans or receptacles is provided with an overflow 54 which is adjustably supported by the bottom of the pan or receptacle in any desired or suitable manner, preferably by means of a collar or reinforced portion 55 in the bottom and this overflow 54 is provided with a threaded extremity which extends through the bottom of the pan or receptacle at a point adjacent the opening 48 in the bottom of the respective frame 45. The pans or receptacles are also provided with air circulation openings 56 in the side walls thereof and these openings 56 are adapted to stand adjacent the openings 49 in the side walls 47 of the frame so as to permit the free passage or circulation of the air through the openings 56 and frames and between the adjacent receptacles. Arranged within the ice compartment thus formed, preferably adjacent the rear wall of the casing 20 and extending substantially across the casing is a drip pan or trough 57 which may be of any desired size but is preferably narrow. This drip pan is adapted to be supported and held in position in any desired or suitable manner but preferably rests upon the spacing members 39 and is provided with a plurality of apertures or openings 58 in the bottom thereof, one above each of the pans or receptacles 44 so that the drip water which accumulates in the

pan 57 will pass from the pan through the openings 58 and into the respective pans or receptacles 44 to be accumulated therein and the height of the water in the pans or receptacles 44 is controlled by the adjustable overflow pipe 54. This drip pan 57 is adapted to receive the drip water from the ice rack 51, which latter preferably inclines toward the rear of the casing. Arranged below the supporting frames 45 and the pans or receptacles 44 and extending below the overflow pipes 54 is another drip pan or trough 59. The overflow pipes 54 and the drip pan or trough 59 are preferably located adjacent the rear wall of the outer casing and as the water flows from the respective pans or receptacles 44 into the drip pan or trough 59, it will be caught and confined by the pan 59 and will then be conveyed from the pan or trough 59 by means of a tube or pipe 60 through the food compartment (designated generally by the reference numeral 61) of the refrigerator to a suitable discharge point. Supported below the pans or receptacles 44 and in advance of the drip pan or trough 59 is another drip pan or receptacle 62. The pan or trough 59 and the receptacle 62 are removably supported in any desired or suitable manner, preferably by means of supporting brackets 63 secured to the walls of the casing. The pan or receptacle 62 is provided to catch and confine any moisture or water due from condensation which is caused by the warm or heated air from the food compartment 61 coming into contact with the surface of the pans or receptacles 44, and this pan or receptacle 62 is provided with a plurality of air circulation openings 64 in the bottom thereof around which openings are arranged upwardly projecting flanges 65 to permit the down-going air currents indicated by the arrows in Fig. 1, to pass through the openings 64 so that the currents will pass to the bottom of the food compartment at the center thereof and then rise to the top of the compartment in close proximity to the walls of the compartment and at the same time prevent the water of condensation from flowing through the openings 64 into the food compartment.

When individual pans or receptacles 44 are supported in the frames 45, they will have communication with the ice compartment or chamber through their open tops, so that the air currents will pass downwardly from the ice compartments and into the pans or receptacles and at the same time the drip water will also pass into these pans or receptacles through the openings 58 in the trough 57. When it is desired to conduct the drip water through any one or more of these pans or receptacles 44 and at the same time prevent the water from discharging into and accumulating within the respective

pans or receptacles, suitable means may be provided for conducting the water from the opening 58 adjacent the respective pan or receptacle 44 directly into the overflow pipe 54. For this purpose there is provided a cover or closure 66 for each of the pans or receptacles in which it is desired to prevent the water from accumulating. These covers or closures 66 are provided with air circulation openings 67 (see Fig. 4) through which the cold air from the ice compartment may pass into the pans or receptacles 44 and to be discharged therefrom through the openings 56 in the side walls. These covers or closures 66 support a tubular member 68 (see Fig. 8) which is adapted to stand adjacent and communicate with the opening 58 in the bottom of the drip pan or trough 57 and also communicate with the respective overflow pipe 54, preferably by the free end of the tubular member telescoping with the overflow pipe. When the cover is thus placed in position it will be apparent that the drip water will pass directly from the pan or trough 57 through the respective opening 58, tubular member 68, overflow pipe 54 and into the drip pan or trough 59. These covers 66 are removably supported in any desired or suitable manner, preferably by means of a flange 69 on the cover which enters the respective receptacle and rests upon a ledge or support 70 formed on the wall of the receptacle or pan in any suitable manner. The cover 66 when employed is placed in position upon the respective receptacle or pan after the articles have been placed therein and before the pan or receptacle has been inserted within the respective supporting frame 45. When it is desired to remove the articles from the pan thus closed, the pan or receptacle is withdrawn from the frame and the cover removed. The outer casing 20 is provided with any suitable number of apertures or openings in the front wall thereof through which access may be had to the ice chamber and the food compartment, and a closure 71 is provided for the opening to the ice chamber and one or more closures 72 is provided for the openings through which access may be had to the food compartment.

The individual or removable pans or receptacles 44 are preferably located between the ice chamber and the food compartment and the casing 20 is provided with an opening in one wall thereof adjacent these pans or receptacles and through which the pans or receptacles and the supporting frames 45 may be removed together or the pan or receptacle may be removed separately from the supporting frame. The closure thus formed in the front of the casing for the removal or insertion of these pans or receptacles is provided with a plurality of closures 73, and one of these closures 73 is provided adjacent each

of the pans or receptacles 44 so that any one or more of the pans or receptacles may be removed by opening the individual closure 73 without interfering with the remaining pans or receptacles or without opening the closures 71 and 72. When the door or closure 73 is opened, the respective pan or receptacle 44 may be readily withdrawn from its supporting frame 45 and as readily replaced. If desired, the supporting frame may itself be removed with the pan or receptacle or may be removed after the pan has been removed for the purpose of cleaning or for any other purpose.

With this improved construction, it will be apparent that all of the parts may be readily removed from the casing and also that any one or more of these pans or receptacles may be employed for preserving articles which it is desired to maintain in a dry condition by preventing the water from entering the respective pan or receptacle and at the same time others of the pans or receptacles may be arranged to receive the drip water from the ice.

While in the present exemplification of the invention it is preferable to provide a plurality of doors or closures 73 for the opening through which the individual pans or receptacles are removable, a single closure 74 may be provided which is mounted upon hinges 75, as shown in Fig. 5, so that the entire closure may swing bodily about the hinges to expose all of the pans or receptacles at the same time and any suitable fastening device 76 may be provided at the other end of the closure, as will be understood. It is also to be understood that individual locking members 77 are provided for the doors 73 when the casing is so constructed. An ice preserving hood having a top 78, end walls 79, and front and rear walls 80 may be provided and is adapted to be placed over the ice. This hood may be held in position by means of suitable supports 93, the walls of the hood being provided with air openings 84, 85. The construction and operation of this hood forms no part of the present invention and constitutes subject-matter of a separate application.

In order to adapt this improved attachment for use with the city supply of water as a cooling medium, there is provided a tube or pipe 95 which is itself provided with discharge jets or nozzles 96, one or more of which may be provided adjacent and arranged to discharge into each of the individual pans or receptacles 44. This tube or pipe 95 is preferably located adjacent the rear wall of the casing and above the spacing members or supports 39 and also in proximity to the drip pan or trough 57. Water is supplied to this tube or pipe 95 in any desired or suitable manner, preferably by means of a pipe or tube

97 which is connected thereto and which extends through one of the walls of the casing 20 and is adapted to be connected to any suitable source of supply. A controlling valve 98 may also be provided in the tube or pipe 97 for regulating the supply of water discharged through the nozzles 96. When the city supply of water is used as a cooling medium the operation of this improved attachment will be the same as when the drip water is used as the cooling medium.

In order that the invention might be fully understood the details of the foregoing embodiment thereof have been thus specifically described, but

What is claimed as new is:

1. A refrigerator including in combination a casing, a plurality of individual provision receptacles entirely inclosed within the casing and adapted to contain and receive a supply of cooling fluid simultaneously and directly from a common source and independently with respect to each other, a source of supply of cooling fluid, and means supporting the receptacles whereby they may be entirely removed from the casing or partially removed and supported in the last said position.

2. A refrigerator including in combination a casing, a plurality of removable provision receptacles entirely inclosed within the casing and adapted to contain and receive a cooling fluid simultaneously and directly from a common source and independently with respect to each other, and a source of supply of cooling fluid, said receptacles being also adapted to be projected outside of the casing and maintained in such position.

3. A refrigerator including in combination a casing, a plurality of independent and individual provision receptacles entirely inclosed within the casing and adapted to simultaneously receive a cooling fluid from a common source, independently of each other and to contain said fluid, said receptacles having a source of cooling fluid, closures for each of the receptacles, and means whereby fluid may be supplied to the receptacles when the closures are in place.

4. A refrigerator including in combination a casing, and a plurality of individual provision receptacles separate from the walls of and entirely inclosed within the casing adjacent but spaced from each other and adapted to receive and contain a cooling fluid, said receptacles having a common source of supply of cooling fluid and simultaneously receiving the fluid directly from said supply and independently with respect to each other, said receptacles being supported by partial removal from the casing and adapted to be maintained in such position.

5. A refrigerator including in combination a casing, a plurality of individual provision receptacles separate from the walls of and inclosed within the casing and adapted to receive and contain a cooling fluid, said receptacles having a source of supply of cooling fluid and receiving the fluid directly therefrom and independently of each other, and means individual to the receptacles for independently controlling the height of the fluid in the respective receptacles, said receptacles being adapted for removal or partial removal and to be maintained in a partially removed position.

6. A refrigerator including in combination a casing, a plurality of individual and uprightly removable provision receptacles separate from the walls of and inclosed within the casing and adapted to receive and contain a cooling fluid, said receptacles having a common source of supply of cooling liquid and receiving the liquid therefrom and independently with respect to each other, and an overflow pipe individual to each of the receptacles and independent of the other receptacles.

7. A refrigerator including in combination an inclosing casing, a plurality of separate provision receptacles fixed within the casing and separate from the walls of the casing, said receptacles being uprightly and independently removable from the casing and adapted to receive and contain a cooling fluid, said receptacles having a common source of supply of cooling fluid, and receiving the fluid directly from the supply independently of each other, and air circulation openings in the walls of the receptacles, said openings being spaced above the bottoms of the receptacles.

8. A refrigerator including in combination an inclosing casing, a plurality of separate article receptacles, means for supporting the receptacles for independent removal and for spacing the receptacles from each other, said receptacles having a common source of supply of cooling fluid each receiving the fluid directly from the supply and independently with respect to each other and air circulation openings in the walls thereof.

9. A refrigerator including in combination an inclosing casing, a plurality of separate article receptacles, means for supporting the receptacles for independent removal and for spacing the receptacles from each other, said receptacles having a source of supply of cooling fluid each receiving the fluid directly from the supply and independently with respect to each other, air circulation openings in the walls thereof, and an apertured closure for each of the receptacles.

10. A refrigerator including in combination an inclosing casing, a plurality of separate

rate article receptacles, each of the receptacles having a source of supply of cooling fluid, each receiving the fluid directly from the supply and independently with respect to each other, an adjustable overflow pipe individual to each of the receptacles, and means for conducting the cooling fluid from the supply directly through the overflow pipe.

11. A refrigerator including in combination an inclosing casing, a plurality of separate and individually removable article receptacles having a source of supply of cooling fluid, an overflow pipe individual to each of the receptacles for causing the fluid to accumulate therein, and a closure for each of the receptacles, said closure being provided with a fluid passage adapted to conduct the fluid from the supply and directly through the respective overflow pipe.

12. A refrigerator including in combination an inclosing casing, a plurality of separate and individually removable article receptacles, said receptacles having a source of supply of cooling fluid, and means for conducting the fluid from the supply directly through the overflow, said means comprising a closure for the receptacle having an opening therein and a tubular member surrounding and communicating with the opening, said tubular member being adapted to communicate directly with the respective overflow pipe when the closure is in position.

13. A refrigerator including in combination a casing, a plurality of individual provision receptacles inclosed within the casing and arranged adjacent each other, said receptacles being adapted to receive and confine a cooling fluid therein and having a source of supply of cooling fluid, said casing being provided with an opening in the wall thereof adjacent the receptacles and closures for the openings individual to the receptacles.

14. A refrigerator including in combination a casing, a plurality of individual removable provision receptacles inclosed therein, said receptacles having a source of supply of cooling fluid and adapted to receive and confine the fluid therein, the wall of the casing being provided with an opening through which the receptacles are removable, and a closure for closing the opening.

15. A refrigerator including in combination a casing, a plurality of individual and removable provision receptacles inclosed therein, such receptacles having a source of supply of cooling fluid and adapted to receive and confine the fluid therein, the wall of the casing being provided with an opening through which the receptacles are removable, and a plurality of closures for the opening, said closures being individual to and adjacent the receptacle.

16. A refrigerator including in combination a casing, a food compartment, a cooling fluid supply chamber, a removable provision receptacle separate from the compartment and chamber disposed between the chamber and compartment and adapted to receive and confine a supply of cooling fluid from the first said chamber, said casing having an opening in the front thereof through which the receptacle is removable, and a closure for the opening.

17. A refrigerator including in combination a casing, a removable provision receptacle inclosed within the casing, said casing being provided with an opening in the wall thereof through which the receptacle is removable, a closure for the opening, said receptacle having a source of supply of cooling fluid and adapted to receive and confine the fluid therein, and means whereby the cooling fluid may be conducted through the receptacle without being discharged into the receptacle.

18. A refrigerator including in combination an inclosing casing, a plurality of removable and individual article receptacles in the casing, said casing being provided with an opening in the wall thereof through which the receptacles are removable, means for closing the opening, said receptacles having a source of supply of cooling fluid and means whereby the cooling fluid may be conducted through any one or more of the receptacles without being discharged into the respective receptacles, and without interfering with the supply to the remaining receptacles.

19. A refrigerator including in combination an inclosing casing, an ice chamber, a food compartment adjacent the ice chamber, said casing being provided with openings through which access may be had to the compartment and chamber, a separate and removable provision receptacle disposed between the ice chamber and food compartment and adapted to receive and contain a supply of cooling fluid, said casing having an opening in the wall thereof through which the said receptacle is removable, a closure individual to the last said opening and independent of said receptacle.

20. A refrigerator including in combination an inclosing casing, an ice chamber, a food compartment adjacent the ice chamber, said casing being provided with openings through which access may be had to the compartment and chamber, a separate and uprightly removable provision receptacle disposed between the ice chamber and food compartment and adapted to receive and confine a cooling fluid therein, means whereby said receptacle may be supplied with cooling fluid from the ice chamber, said casing having an opening in the wall thereof through which the said receptacle is removable.

able, and an individual closure for the last said opening.

21. A refrigerator including in combination an inclosing casing, an ice chamber, a food compartment adjacent the ice chamber, said casing being provided with openings through which access may be had to the compartment and chamber, a separate and uprightly removable provision receptacle disposed between the ice chamber and food compartment, means whereby said receptacle will receive the drip water from the ice chamber to be accumulated and confined therein, and means for controlling the height of the liquid in the said receptacle, said casing having an opening in the wall thereof through which the said receptacle is removable, and an individual closure for the last said opening.

22. A refrigerator including in combination an inclosing casing, an ice chamber, a food compartment adjacent the ice chamber, said casing being provided with openings through which access may be had to the compartment and chamber, a separate and removable article receptacle disposed between the ice chamber and food compartment, means whereby the drip water from the ice chamber may be discharged into the receptacle to accumulate therein, means for controlling the height of the water in the receptacle, and means whereby the water may be conducted through the receptacle without being discharged therein, said casing having an opening in the wall thereof through which the said receptacle is removable and an individual closure for the last said opening.

23. A refrigerator including in combination an inclosing casing, an ice chamber, a food compartment adjacent the ice chamber, a separate article receptacle removably supported between the chamber and compartment, means whereby the drip water from the ice chamber will be discharged into the receptacle, an overflow from the receptacle, means whereby the fluid may be conducted directly through the overflow pipe without being discharged into the receptacle, and means for catching and confining the fluid from the said overflow and conducting it through the food compartment.

24. A refrigerator including in combination an inclosing casing, supports removably secured therein, said supports including guide-ways, a plurality of individual article receptacles slidable upon the guide-ways, said receptacles being provided with air circulation openings, said receptacles being adapted to receive and contain a cooling fluid and having a source of supply of cooling fluid, said casing having an opening in the wall thereof through which the receptacles are removable, and a closure for the opening individual to each of the receptacles.

25. A refrigerator including in combination an inclosing casing, a supporting frame removable from the casing, an article receptacle removably supported by the frame and removable from the casing with the frame and also independently thereof, said receptacle being adapted to receive and contain a cooling fluid, said casing having an opening in the wall through which the frame and receptacle are removable, and a closure for said opening.

26. A refrigerator including in combination an inclosing casing, a supporting frame removable from the casing, an article receptacle removably supported by the frame and removable from the casing with the frame and also independently thereof, said casing having an opening in the wall through which the frame and receptacle are removable, and a closure for said opening, said receptacle and frame being provided with air circulation openings in their walls and above the bottom of the receptacle.

27. A refrigerator including in combination an inclosing casing, supports, removably secured therein, spacing members resting upon the supports, independent article receptacles supported by and suspended from the spacing members and removable from the casing independently of the supports and members, said casing being provided with an opening in its wall and a closure for the opening.

28. A refrigerator including in combination an inclosing casing, supports removably secured therein, spacing members supported by the said supports, frames removably supported by the spacing members, article receptacles removably supported by the frames, said article receptacles being adapted to receive and contain a cooling fluid and having a source of supply of cooling fluid, said casing having an opening in its wall through which the frames and receptacles are removable, and means individual to each of the frames and receptacles for closing the opening.

29. A refrigerator including in combination an inclosing casing, telescoping supports removably secured within and extending across the casing, independent article receptacles removably supported by the supports, said receptacles having a source of supply of cooling fluid, said casing being provided with an opening in the wall through which the receptacles are individually removable, and means for closing said opening.

30. A refrigerator including in combination an inclosing casing, telescoping supports removably secured within and extending across the casing, independent article receptacles removably supported by the supports, said receptacles having a source of supply of cooling fluid, said casing being

provided with an opening in the wall through which the receptacles are individually removable, and a plurality of closures for the openings, said closures being individual to the receptacles.

31. A refrigerator including in combination an inclosing casing, extensible supports removably secured within the casing and extending thereacross, separate article receptacles removably supported by the supports and spaced from each other, an ice chamber above the receptacles whereby the receptacles will be supplied with cooling fluid from the chamber, a food compartment below the receptacles, said casing having openings in its wall individual to the ice chamber and compartment, closures for the openings, said casing being also provided with an opening through which the receptacles are removable, and a closure for the last said opening.

32. A refrigerator including in combination an inclosing casing, extensible supports removably secured within the casing and extending thereacross, separate article receptacles removably supported by the supports and spaced from each other, an ice chamber above the receptacles whereby the receptacles will be supplied with cooling fluid from the chamber, a food compartment below the receptacles, said casing having openings in its wall individual to the ice chamber and compartment, closures for the openings, said casing being also provided with an opening through which the receptacles are removable, a closure for the last opening, a drip pan below the receptacles and extending across the food compartment, and air circulation openings in said pan.

33. A refrigerator including in combination an inclosing casing, removable supports secured within the casing and extending thereacross, a plurality of separate article receptacles removably supported by and between the supports, said receptacles having a source of supply of cooling fluid, a food compartment below the receptacles, and a drip pan between the food compartment and receptacles, said pan being provided with air circulation openings through its bottom.

34. A refrigerator including in combination an inclosing casing, a plurality of spaced individual and removable article receptacles within the casing, an ice compartment above the receptacles, means whereby the drip water from the ice will be discharged into the receptacles, said receptacles having air circulation openings in their walls, a food compartment below the receptacles, and a drip pan between the receptacles and the food compartment, said pan being provided with air circulation openings in its bottom.

35. A refrigerator including in combination an inclosing casing, a plurality of

spaced individual and removable article receptacles within the casing, an ice compartment above the receptacles, means whereby the drip water from the ice will be discharged into the receptacles, said receptacles having air circulation openings in their walls, perforated closures for the receptacles, a food compartment below the receptacles, and a drip pan between the receptacles and the food compartment, said pan being provided with air circulation openings in its bottom.

36. A refrigerator including in combination an inclosing casing, a plurality of individual and removable article receptacles supported within the casing to divide the same into a cooling fluid supply chamber and a food compartment, said chamber having a source of supply of cooling fluid, means whereby the fluid will be supplied to the receptacles, means whereby down going air currents from said chamber will circulate through and around the said receptacles, and up going air circulation passages communicating with the food compartment extending above the receptacles and discharging into the said chamber.

37. A refrigerator including in combination an inclosing casing, a plurality of separate provision receptacles supported within the casing and independently removable therefrom, an ice chamber arranged above the receptacles, means whereby the drip water will enter and be confined in the receptacles, a food compartment below the receptacles, and a removable partition spaced from one wall of the casing to form therewith an up going air passage communicating with the food compartment and discharging into the ice chamber above the said receptacles, and means whereby the down going air will circulate around the receptacles and into the food compartment.

38. A refrigerator including in combination an inclosing casing, a plurality of separate provision receptacles supported within the casing and independently removable therefrom, an ice chamber arranged above the receptacles, means whereby the drip water will enter and be confined in the receptacles, a food compartment below the receptacles, and a removable partition spaced from one wall of the casing to form therewith an up going air passage communicating with the food compartment and discharging into the ice chamber above said receptacles, and means whereby the down going air will circulate around the receptacles and into the food compartment.

39. A refrigerator including in combination an inclosing casing, a plurality of individual provision receptacles supported within the casing and independently removable therefrom, an ice chamber arranged above the receptacles, means whereby the

drip water will directly enter the receptacles independently of each other and be confined therein, an adjustable overflow individual to each of the receptacles for controlling the height of water therein, a food compartment below the receptacles, a removable partition spaced from one wall of the casing to form therewith an up going air passage communicating with the food compartment and discharging into the ice chamber above the said receptacles, and means whereby the down going air will circulate around the receptacles and into the food compartment.

40. A refrigerator including in combination an inclosing casing, a plurality of separate article receptacles supported within the casing and independently removable therefrom, an ice chamber arranged above the receptacles, means whereby the drip water will enter the receptacles, a food compartment below the receptacles, a removable partition spaced from one wall of the casing to form therewith an up going air passage communicating with the food compartment and discharging into the ice chamber above the said receptacle, means whereby the down going air will circulate around the receptacles and into the food compartment, and an ice supporting rack removably supported by the said partitions.

41. A refrigerator including in combination an ice chamber, partitions removably supported by opposite walls of the chamber, portions of the partitions being bent to form guides, spacing members between the partitions, supports for said spacing members, portions of adjacent spacing members being bent to form guides cooperating with the next adjacent members, and portions of the spacing members adjacent the partitions being bent to form a guide cooperating with the guide on the respective partition, and an article receptacle removably supported by cooperating guides.

42. A refrigerator including in combination an ice chamber, partitions removably supported by opposite walls of the chamber, portions of the partitions being bent to form guides, spacing members between the partitions, supports for said spacing members, portions of adjacent spacing members being bent to form guides cooperating with the next adjacent member, and portions of the spacing members adjacent the partitions being bent to form a guide cooperating with the guide on the respective partition, article receptacles removably supported by cooperating guides, said casing being provided with an opening in its wall adjacent the receptacles and through which the receptacles are removable, and a closure for the opening.

43. A refrigerator including in combination an ice chamber, partitions removably supported by opposite walls of the chamber, portions of the partitions being bent to form

guides, spacing members between the partitions, supports for said spacing members, portions of adjacent spacing members being bent to form guides cooperating with the next adjacent member, and portions of the spacing members adjacent the partitions being bent to form a guide cooperating with the guide on the respective partition, article receptacles removably supported by cooperating guides, said casing being provided with an opening in its wall adjacent the receptacles and through which the receptacles are removable, and a closure for the opening individual to each of the receptacles.

44. A refrigerator including in combination an ice chamber, partitions removably supported by opposite walls of the chamber, and spaced from the respective wall to form air circulation passages, portions of the partitions being bent to form guides, spacing members between the partitions, supports for said spacing members, portions of adjacent spacing members being bent to form guides cooperating with the next adjacent member, and portions of the spacing members adjacent the partitions being bent to form a guide cooperating with the guide on the respective partition, and article receptacles removably supported by cooperating guides.

45. A refrigerator including in combination a casing provided with a chamber adapted to receive cooling fluid, and individual pendant provision vessels within the casing and spaced from each other, each adapted to receive cooling fluid directly from the supply independently of each other and to confine such supply of cooling fluid, means common to all of the vessels for carrying away such fluid, and means whereby any one or more of the receptacles may be removed without interfering with or affecting the supply of fluid to the other receptacles.

46. A refrigerator including in combination a casing provided with a chamber adapted to receive and contain a cooling fluid, individual pendant cooling provision vessels within the casing, each adapted to receive cooling fluid directly from the supply and independently of each other and to confine such supply therein, and means whereby any one or more of said vessels may be removed from the casing without interfering with or affecting the supply of fluid to the other vessels.

47. A refrigerator including in combination a casing, provided with a trough adapted to receive a cooling fluid, individual pendant cooling receptacles within the casing adapted to receive and contain a supply of cooling fluid from the said trough independently of each other, said casing being provided with an opening adjacent and through which any one or more of said re-

ceptacles may be removed, and a closure for the opening having openings individual to the vessel.

48. A refrigerator, including in combination an inclosing casing, a plurality of individual provision receptacles entirely inclosed within the casing and adapted to receive and contain a supply of cooling fluid, said casing being provided with an opening in the wall thereof adjacent the receptacles and through which the receptacles are removable, a closure for the opening common to all the receptacles, said closure being provided with openings individual to the receptacles and through which the receptacles may be removed, and closures individual to the last recited openings.

49. A refrigerator including in combination a casing, a plurality of individual removable provision receptacles inclosed therein, said provision receptacles having a source of supply of cooling fluid adapted to receive and confine the fluid therein, the wall of the casing being provided with an opening through which the receptacles are removable, a closure for the opening, and means whereby the cooling fluid may be conducted from the supply directly through one or more of the receptacles without being discharged into the receptacles.

50. A refrigerator including in combination a casing, a provision receptacle entirely inclosed within the casing and having a source of supply of cooling fluid, means for causing a predetermined amount of said fluid to accumulate in the receptacle, and means adapted to conduct the fluid from the supply directly through the receptacle without being discharged thereinto.

51. A refrigerator including in combination a casing, a removable provision receptacle entirely inclosed within the casing and having a source of supply of cooling fluid, means for causing a predetermined amount of said fluid to accumulate in the recep-

tacle, and means adapted to conduct the fluid from the supply directly through the receptacle without being discharged thereinto.

52. A refrigerator including in combination a casing, a plurality of individual provision receptacles entirely inclosed within the casing and removable therefrom independently, said receptacles having a source of supply of cooling fluid, means for causing a predetermined amount of the cooling fluid to accumulate in each of the receptacles directly from the supply and independently of each other, and means for conducting the fluid directly from the supply through any one or more of the receptacles at will, without being discharged into the receptacle and without affecting the supply of the cooling fluid to the remaining receptacles.

53. A refrigerator including in combination a casing, a plurality of individual provision receptacles entirely inclosed within the casing spaced from each other and removable from the casing independently, said receptacles having a source of supply of cooling fluid, means for causing a predetermined amount of the cooling fluid to accumulate in each of the receptacles directly from the supply and independently of each other, means for conducting the fluid directly from the supply through any one or more of the receptacles at will, without being discharged into the receptacle and without affecting the supply of the cooling fluid to the remaining receptacles, and air circulation apertures in the walls of the receptacles.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 22nd day of May A. D. 1909.

FOREST V. DETWILER.

Witnesses:

J. H. JOCHUM, Jr.,

C. H. SEEM.