No. 878,769. PATENTED FEB. 11, 1908.

W. A. CAMPBELL.

KITCHEN CABINET TABLE.

APPLICATION FILED APR. 4, 1907.

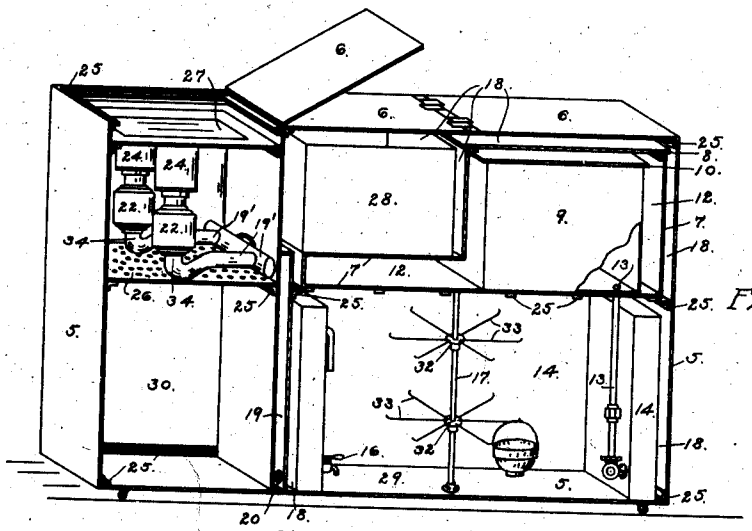


Fig. 1.

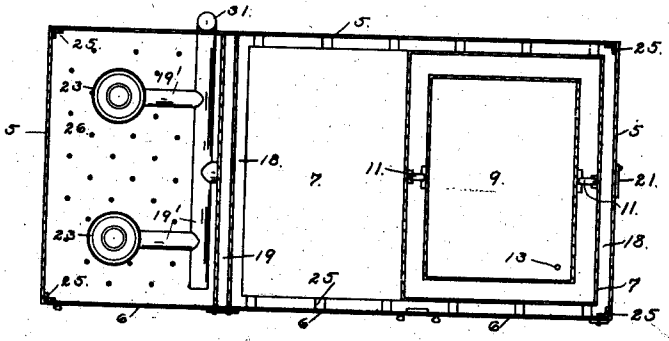


Fig 2.

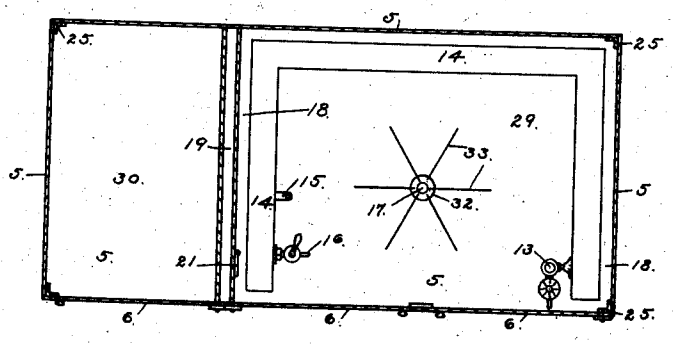


Fig 3.

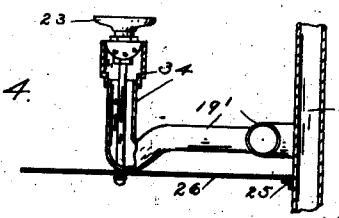


Fig 4.

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KITCHEN-CABINET TABLE.

No. 878,769. Specification of Letters Patent. Patented Feb. 11, 1908.

Application filed April 4, 1907. Serial No. 366,422.

To all whom it may concern:

Be it known that I, WILLIAM A. CAMPBELL, a citizen of the United States, residing at Kenton, in the county of Hardin and the State of Ohio, have invented a new and useful Kitchen-Cabinet Table, of which the following is the specification.

My invention relates to improvements in a cabinet table, wherein the arrangement of its parts, combined in a unitary body, provides a refrigerator and stove compartments, whereby the adaptation of each to its own use can be utilized, and the cabinet to occupy similar space in a room as the common table.

In its generic nature my appliance comprehends a cabinet body whereby refrigeration is increased by means of a covered water tank in which is provided a covered ice receptacle to chill the water in the space around it and in the space of the horizontal extension of the said tank.

It further provides a receptacle tank, which lines the ends and the back of the cold storage space and receives and retains the water from the melted ice, thus utilizing its cooling influence; and further a means of air circulation, which is provided by an air space surrounding the water tank; and also by an infeed vent which admits the air thereto, and a discharge vent which connects with and conducts the air from the said space directly into a conducting flue, which provides air for the support of combustion for the fuel or into the chimney of the house for purpose of making a draft through said space. Thus the draft created by the unequal temperature existing in said space and flue causes the humidity in the food compartment to be evaporated, whereby an increased refrigeration effect is produced and maintained longer.

The new matter herein added to the disclosures of my pending application No. 312,705, filed April 19, 1906, consists of the horizontal extension of the base of the water tank 7, and the horizontal transverse flue pipe 19′ connecting the vertical flue, and having short flues extending therefrom communicating directly with the stove burners; also an improved vertical rotary crane shelf provided in the cold storage compartments for suspending food containers thereon.

My invention in its more specific nature consists in certain details of construction and peculiar combination of parts, all of which will be hereinafter fully described and specifically pointed out in the appended claims, and illustrated in the accompanying drawings, in which the same figures of reference denote the same parts throughout the drawings and the specifications.

The cabinet body is box-like in form and is supported by a skeleton frame structure of angle iron, which consists of bars 25 at the top, center and the bottom lengthwise of the frame intersected by transverse and vertical bars. Their union is secured at their points of intersection by means of rivet or bolt fastenings. This skeleton frame provides for the arrangement of the compartments of the cabinet within, and is inclosed by an outer sheet metal casing at the bottom, ends, and the back. The top is composed of hinged lids and the lower front provided with hinged doors which admit of access to the interior of the cabinet. The casing and lids of the top and the doors are secured to the skeleton frame and maintained at their relative positions by rivet or bolt fastenings.

Figure 1 in the drawings is a vertical longitudinal sectional view showing the interior plan of the construction, as follows: The covered water tank with the horizontal extension of its base; the covered ice receptacle within and water space around it, and within the extension of the base of said tank; the receptacle tank in the cold storage compartment and the drainage faucet connecting and communicating between the water tanks; also the vertical revolving crane shelf and the air space which surrounds the water tanks; and the flue connection between the cold storage compartment and the stoves. Fig. 2 is a horizontal section just beneath the covers of the cabinet, showing the plan of the upper parts of the cabinet, with the storage receptacle 28 removed. Fig. 3 is a horizontal section showing the plan of the lower parts of the cabinet, below the transverse bars 25 of the skeleton frame, which supports the upper parts of the cabinet. Fig. 4 shows in a detail view the method of the construction of gas or gasolene fixtures in the draft flues.

In the drawings 5 is the outer sheet metal casing, and the floor of the cabinet, and 6 are the lids composing the top and the doors of the lower front of the cabinet. The sheet metal water tank, with horizontal extension of its base, is shown at 7. This tank is provided with a removable cover 8, and contains the sheet metal ice receptacle 9, which

has also a removable cover 10. The clasp, which secures the ice receptacle in position, is shown at 11. The water space, which is around the ice receptacle and in the space of the horizontal extension of the water tank is represented by 12.

The drainage faucet 13, which connects the water tank 7 above to the receptacle water tank 14 below is composed of pipe, nipples, union and an elbow with a side outlet, and a glove valve having a hose nipple attached. These parts are united and secured to the bottom of the water tank 7 by soldered fastening and to the lower front end of the receptacle tank 14 which lines the ends and back of the cold storage compartment. An overflow pipe 15 is connected to the upper part of the receptacle tank at the left to drain off the surplus water when the tank is full, and is adapted to be connected to the drainage pipes of the house.

A bib cock 16 is provided for the receptacle water tank 14, whereby water may be drawn for culinary or table purposes. A vertical rotary crane shelf 17 is provided in the cold storage compartment, for suspending receptacle food containers therein. This crane shelf comprises a steel rod attached by means of shoulders on its ends to the top and bottom of the cold storage compartment and extending vertically. Slidably mounted on this rod are two flanged collars 32, adapted to be held by set screws at any position of vertical adjustment along the rod. Arms 33 are mounted in holes formed in the flanges of these collars and extend radially therefrom.

An air space 18 surrounds the water tanks, and is provided with an infeed vent and a discharge vent 20. These vents are provided with slidable covers 21, which are to regulate the infeed of the air to space 18 and the discharge of the air therefrom. The air space 18 is connected by the discharge vent opening 20 near the bottom plate 5 with a vertical flue space 19, which is between the cold storage compartment 29 and the oven receptacle compartment 30. A horizontal transverse flue 19′ connects on to the vertical flue 19 which has an aperture therein provided with a collar for attachment into flue 19′. This horizontal transverse flue 19′ is provided with two short flues 19′ extending therefrom, and to which the stove burners are attached. This horizontal transverse flue 19′ is provided with a flue section 31, which communicates with the chimney of the house. The oil fonts 22, are cylindrical bowls having short draft flues 19′ passing vertically through their centers to facilitate combustion of the oil, gas or spirit, which may be used as a fuel, and to create a greater draft in the flues, which communicate directly with the air space 18, to vaporize the humidity in the cold storage compartment.

Fig. 4 shows a gas or gasolene burner 23 inserted in the upturned end 34 of the short flue 19′. Short stove flues 24 rest on the top of the oil fonts or on a bracket support and confine the heat and direct it to the grate above. A perforated floor 26 rests on angle bars in the lower section of the stove compartment, and supports the stoves and draft flues. A top plate or grate 27 is provided over the stove burners; and an utensil storage box 28, which is supported by the extension of tank 7. This storage box provides air space between the stove compartment and the main portion of the water tank, and can be utilized for the storage of cooking utensils or for other storage, as desired or the need suggests. The cold storage compartment 29 comprises the lower right and the central portion of the cabinet; it is provided with a vertical rotary crane shelf 17, for suspending food containers therein; also a receptacle water tank 14, which lines the ends and back of its compartment, and provides a cooler and fountain of ice water. The storage receptacle space 30, which comprises the lower section of the stove compartment is for the storage of the baking oven when not in use. All movable parts of the cabinet are provided with the proper fastenings adapted to their purpose and use.

From the foregoing description, taken in connection with the accompanying drawings, the advantage, the convenience and economy of my invention can be perceived, and that a low temperature can be maintained comparatively longer than other cooling appliances, after the ice has been melted by means of the cold water in the tanks and the air circulation causing an equal diffusion of cold air in the storage space.

While I have stated that the cabinet parts are made from sheet metal they may be constructed of other suitable material, and the shape and proportions of the parts may be changed without departing from the spirit of the invention as set forth in the claims and that the refrigerator can be constructed without the stove compartment, if so desired.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is:—

1. In a kitchen cabinet, a refrigerator compartment, an ice receptacle in said compartment surrounded by an air space, a stove burner, and a flue connection between said burner and said refrigerator compartment, whereby a draft of air may be set in motion throughout said compartment, said compartment having a vent opening to admit air thereto, as set forth.

2. In a kitchen cabinet, a refrigerator compartment, an ice receptacle in said compartment surrounded by an air space, a stove burner, and a flue connection between said

burner and said refrigerator compartment whereby a draft of air may be set in motion throughout said compartment, said compartment having a vent opening to admit air thereto, and a regulating cover for said vent opening, as substantially set forth.

3. In a refrigerator cabinet having a storage compartment, an ice receptacle above said storage compartment, and a water tank or jacket surrounding said ice receptacle and having an extension thereof above said storage compartment, and a drip receptacle tank below at the ends and back of the storage compartment, whereby the refrigerative effect of the ice is distributed more evenly over the entire extent of said storage compartment, as substantially set forth.

4. In a refrigerator cabinet having a storage compartment, an ice receptacle above said storage compartment, and a water tank or jacket surrounding said ice receptacle and having an extension thereof above said storage compartment, whereby the refrigerative effect of the ice is distributed more evenly over the entire extent of said storage compartment, as substantially set forth.

5. In a refrigerator cabinet having a storage compartment, an ice receptacle above said storage compartment in one end of the cabinet and extending nearly to the top thereof, a water tank or jacket surrounding said ice receptacle and having an extension thereof over said storage compartment at the other end, whereby the refrigerative effect of the ice is distributed more evenly over the entire extent of the storage compartment, said extension being of less height than that portion of the water tank which surrounds the ice receptacle, and a storage receptacle supported on said extension, as substantially set forth.

In testimony whereof I affix my signature to said specification and claims in the presence of two witnesses.

WILLIAM A. CAMPBELL.

Witnesses:

JOHN Y. THOMPSON,

ADAM M. RICE.