Sept. 10, 1940. W. WATERMANN ET AL 2,214,215

MILK TESTING CABINET

Filed July 11, 1938

Fig. 1.

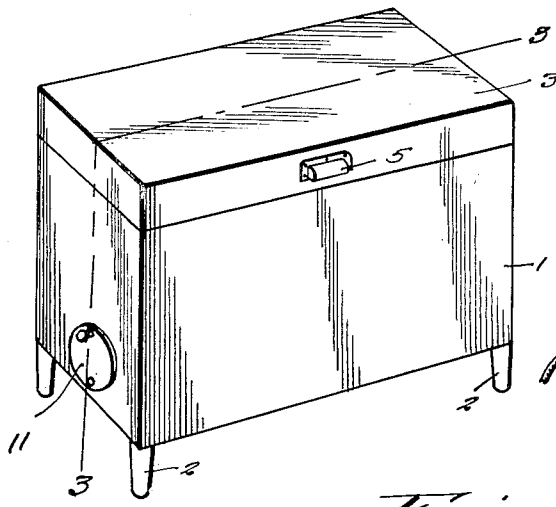


Fig. 2.

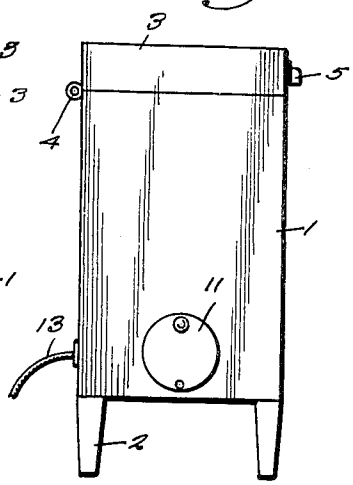
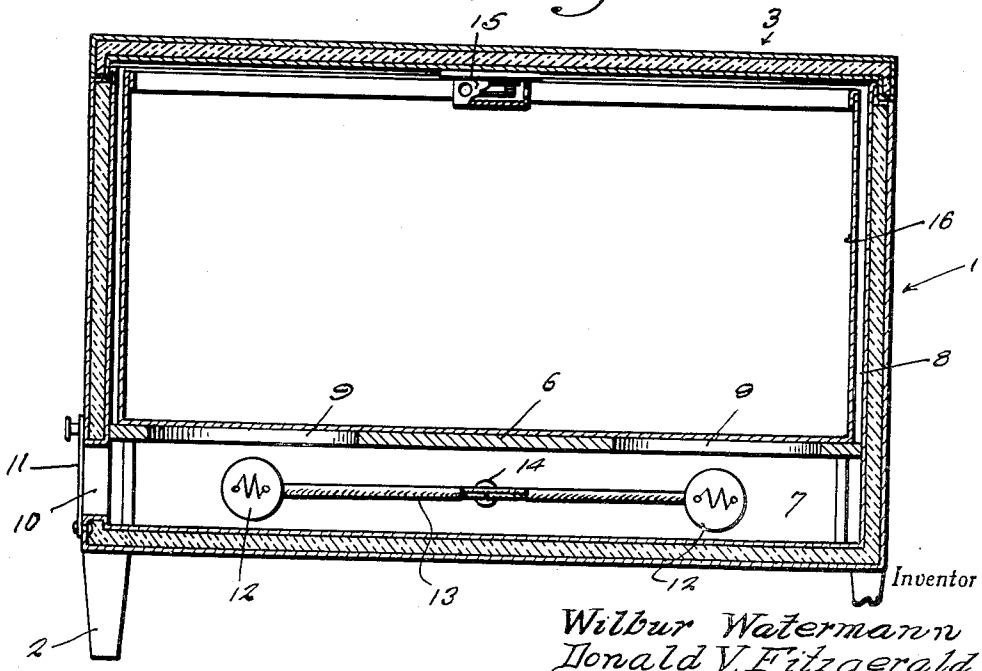


Fig. 3.



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MILK TESTING CABINET

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2 Claims. (Cl. 219—45)

This invention relates to a cabinet for the testing of milk samples, the general object of the invention being to provide an insulated cabinet containing a water tank and heating means for heating the water in the tank, with means for keeping the water at a constant temperature while running Reductase tests to determine approximate bacteria counts in the milk.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a perspective view of the cabinet.

Figure 2 is an end view thereof.

Figure 3 is a section on the line 3—3 of Figure 1.

In this drawing the body of the cabinet is shown at 1 and is supported by the legs 2, the top of the body being open and a cover 3 is provided for the body having one side portion thereof hinged to the body as shown at 4 and the opposite side is provided with a handle 5. A horizontal partition 6 is located in the lower part of the body to provide a lower small chamber 7 and a large tank receiving chamber 8, the partition being formed with the openings 9. One end of the small chamber 7 is formed with an opening 10 covered by a door 11 and this chamber 7 contains electric heating means preferably consisting of the lamps 12, any desired number of which can be used. These lamps are connected by the conductors 13 which pass through an opening 14 in the rear of the body to a source of supply and a thermostat 15 is attached to the under face of the cover 3 and suitably connected with the circuit of the lamps for controlling said circuit. A tank 16 is located in the chamber 8 and has its top open with its bottom extending over the openings 9 so that the heat from the lamp will heat the water in the tank and the thermostat controlling the circuit of the lamps will maintain the temperature of the water at a predetermined degree.

In using the device the test tubes, containing the samples of milk to be tested are placed in racks and are next placed in the tanks of preheated water, the water being held at a temperature of approximately 93.5 degrees Fahrenheit for eight hours or approximately so. Methlyn blue dye is placed in the tubes with the milk.

While the drawing shows the tank as removable this tank can be suitably fastened in the cabinet, but in this case a faucet must be connected with the bottom of the tank to drain the water therefrom.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts provided that such changes fall within the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. A testing device of the class described, comprising a rectangular in cross section cabinet having an open top and a lid therefor, the cabinet and lid being insulated with heat resisting material, a horizontal partition in said cabinet positioned to thereby divide the cabinet into a relatvely deep upper compartment and a relatively shallow lower compartment, said partition having one or more openings therein, electric heating means positioned directly under said openings, a tank adapted to occupy the space in said upper compartment its bottom covering said openings, said tank adapted to be partially filled with liquid, a thermostat positioned within said tank and having an electrical connection to said heating elements whereby the temperature in said upper compartment is automatically controlled.

2. A device as recited in claim 1 including; said lower compartment having an access opening and a closure therefor.

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