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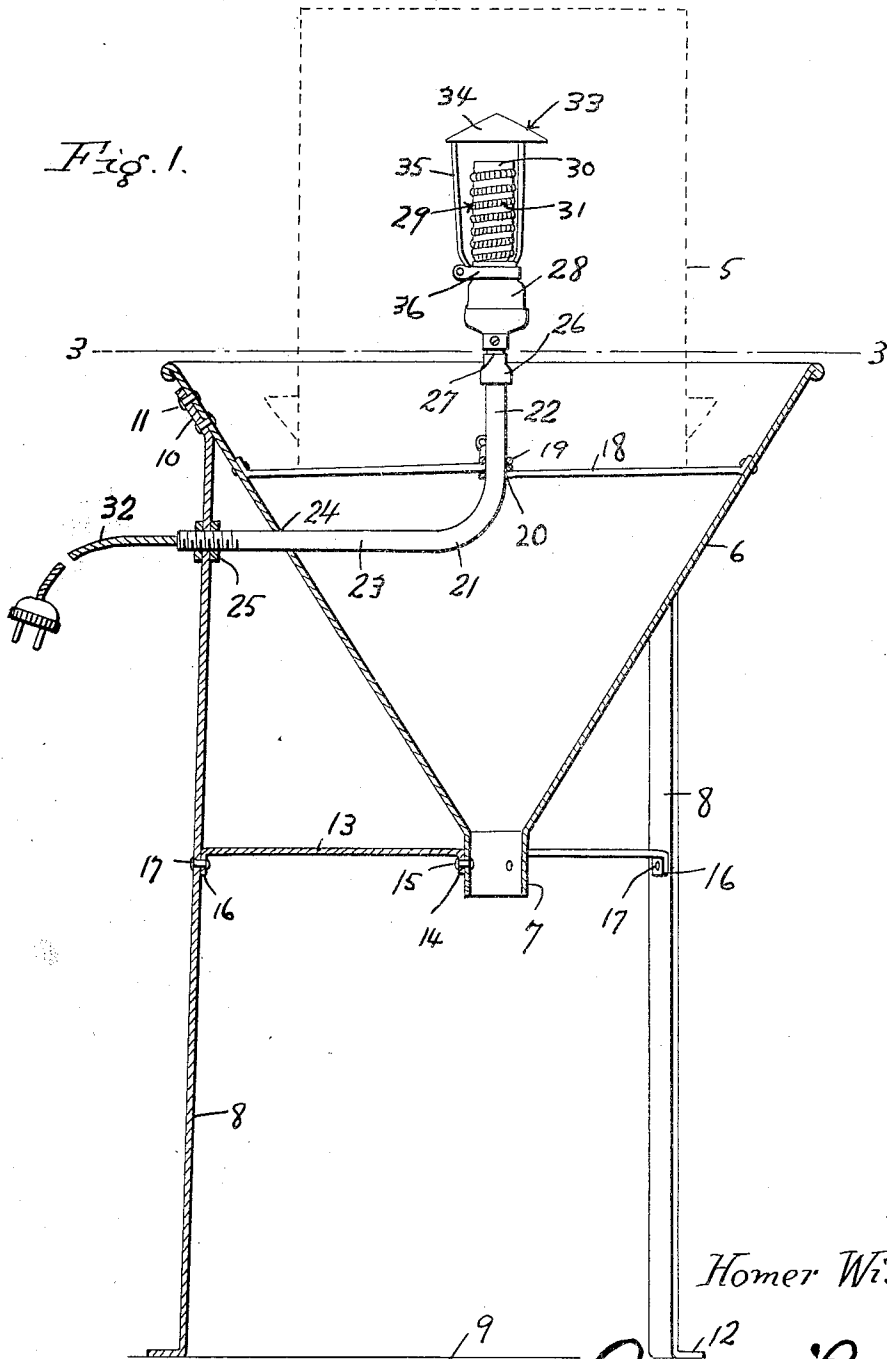
H. WISE

1,831,832

LARD CAN DRAINER

Filed March 14, 1929

2 Sheets-Sheet 1



Inventor

Homer Wise

By *Clarence A. O'Brien*
Attorney

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2 Sheets-Sheet 2

Fig. 2.

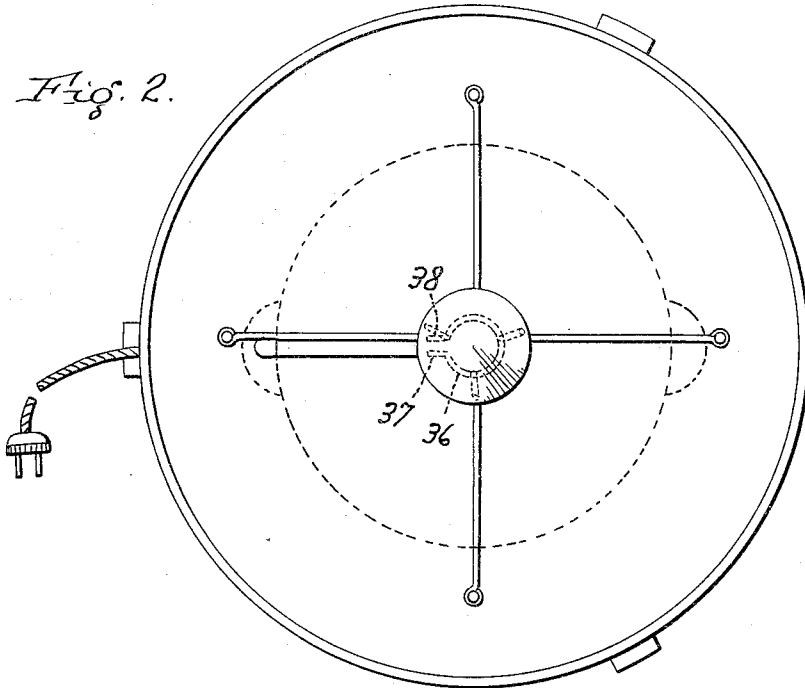


Fig. 3.

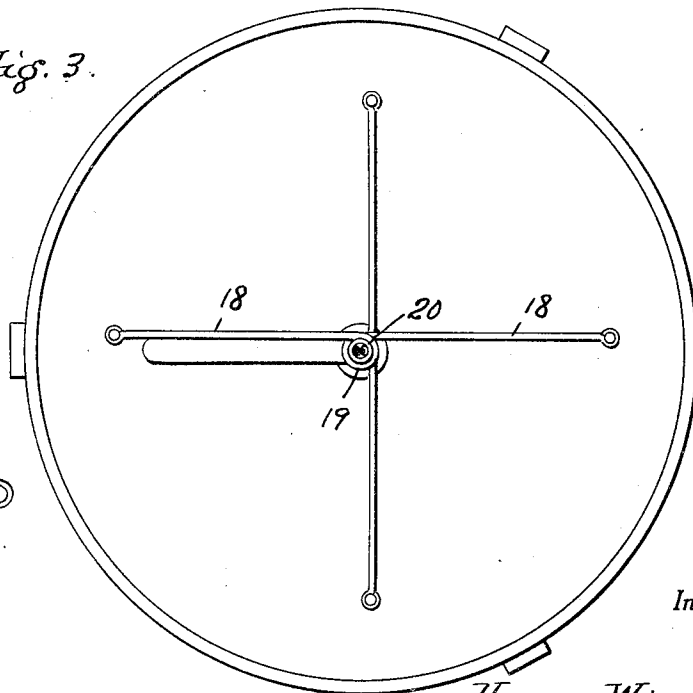
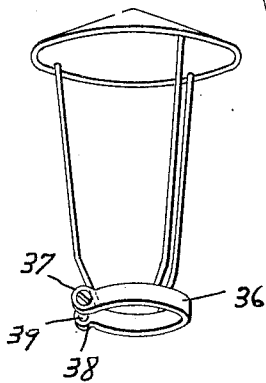


Fig. 4.



Inventor

Homer Wise

By Clarence W. Brien
Attorney

UNITED STATES PATENT OFFICE

HOMER WISE, OF FINDLAY, OHIO

LARD CAN DRAINER

Application filed March 14, 1929. Serial No. 346,974.

This invention relates to an apparatus for draining cans for containing congealable matter under atmospheric conditions and an object of the invention is to provide for quickly and easily draining lard from cans which would otherwise be spoiled or discarded.

Another object of the invention is to provide an assembled heating unit adapted to receive lard cans or other containers of congealable matter at atmospheric temperature which is to be retained in assembled condition ready for convenient use by the merchant.

Other objects of the invention are to provide, a device of the character referred to, which utilizes a dry heat from an electrical current and radiates the heat evenly to the sides of the cans inverted thereupon, that is strong, compact and durable, highly efficient for its intended purpose and thoroughly reliable in its operation, which requires the minimum amount of storage space and is conducive of a very easy method of assembly and comparatively inexpensive to manufacture and install.

With the foregoing and other objects in view, the invention consists of a novel construction, combination and arrangement of parts as hereinafter more fully specifically described and illustrated in the accompanying drawings wherein an embodiment of the invention is disclosed, but it is to be understood that changes, variations and modifications may be resorted to without departing from the spirit of the invention as claimed.

In the drawings wherein like reference characters denote corresponding parts throughout the several views;

Figure 1 is a central, detailed vertical sectional view of the device in accordance with this invention,

Figure 2 is a top plan view thereof,

Figure 3 is a horizontal section taken substantially on line 3—3 of Figure 1, and

Figure 4 is a perspective view of the heat deflecting element detached from the heating element in accordance with this invention.

Referring to the drawings in detail, 5 indicates in dotted line a lard or other contain-

er for material congealable at atmospheric temperature such as lard.

The container 5 is shown in dotted lines in Figures 1 and 2 of the drawings in inverted position and illustrating an adaptation therewith of the device in accordance with this invention.

The device in accordance with this invention includes a funnel shaped receptacle 6 disposed in vertical position and having an annular neck 7 depending therefrom along the axis of the receptacle 6. The walls of the receptacle and neck are solid so as to convey the drippings of the receptacle 5 inverted above the same into a catching means not shown in the drawings.

The funnel shaped receptacle 6 is supported in vertical position on a plurality of legs one of which is indicated at 8 which extend in a vertical plane with respect to the ground indicated at 9.

The upper ends of the legs are bent outwardly in an obtuse angle to form a flange 10 which is secured to the exterior of the receptacle 6 adjacent the top edge thereof, by means of the rivets 11 which extend through the flange and the receptacle wall 6. The bottom ends of the legs 8 are bent outwardly at right angles to form the supporting flanges 12 upon which the device in accordance with this invention rests upon the ground.

A plurality of substantially U-shaped combined supporting and reinforcing straps 13 radiate inwardly from each leg 8 and the flanges 14 at the inner end thereof abut against and are secured to the neck 7 by means of the rivets 15 whereby the bottom of the receptacle 6 is supported while at the same time the legs receive reinforcements to prevent swaying thereof.

The outer end of the U-shaped straps 13 have the flanges 16 secured to the inner faces of the legs 8 by means of the rivets 17 extending through the flange and the legs whereby the outer end of the straps 13 and the legs are secured together.

Radiating inwardly on the interior of the funnel shaped receptacle 6, adjacent the top edge thereof, are spaced rods 18, four of

which are disposed at quadrants about the interior thereof.

Diametric rods 18 are integral and looped at the center thereof and indicated at 19 to form a central opening 20 through which a conductor pipe 21 extends as will be presently referred to. The opposed diametric rod 18, formed in the same manner with a similar loop one disposed on the other. Rods 18 not only support the conductor pipe 21 but form a base upon which the container 5 to be heated is inverted.

The conductor pipe 21 is of right angled configuration having one leg thereof 22 extending along the axis of the interior of the receptacle 6 whereas the other leg 23 extends through an opening 24 in said receptacle and is supported at its outer end on the leg 8, through which it extends by a double lock nut 25.

The leg 22 terminates at its upper end in flushed relation with the upper edge of the receptacle 6 and is provided with a reducing nipple 26 in which is inserted the short length of conductor pipe 27 which threadedly engages with and supports an electrical socket 28 of the heating unit indicated generally at 29.

The heating unit 29 comprises a clay core 30 hollow on its interior about which is spirally wound resistant coils 31 which are connected through the socket 28 to the electrical conductor current wire 32 which leads to the source of electrical current. The heating unit indicated generally at 29 is disposed in a vertical plane and supported above the open mouth of the funnel shaped receptacle. A deflecting element indicated generally at 33 consists of a conical shaped baffle 34 supported in spaced relation to the top of the unit 29 on vertically disposed legs 35, the lower ends of which are secured to a split detachable annular collar 36 having outwardly projecting flanges 37, 38 through which extend a stud bolt 39 for detachably coupling the split collar 36 about the upper end of the socket 28.

The upper ends of the legs 35 are secured to the under side of the conical shaped baffle plate 34. When connected with a source of electrical current, the resistance coils 31 become heated and the convection current arising therefrom are projected radially so as to heat the side walls of the can as well as the bottom thereof when it is in its inverted position.

In the application of the device a receptacle 5 is inserted over the heating unit 29 and the bottom edges thereof rest upon the cross rods 18. The congealable matter such as lard or the like will be melted whereby the drippings will fall in the conical shaped receptacle 6 and be conducted therefrom through the neck 7 into a collecting recep-

tacle inserted under the neck, but not shown in the drawings.

Having described my invention, what I claim as new is:

1. A device of the character described comprising a receptacle formed with inwardly sloping side walls and an open top, radially disposed rods confined within the area of the receptacle adapted for supporting an inverted container, and a heating unit disposed above the rods.

2. A device of the character described comprising a receptacle formed with inwardly sloping side walls and an open top, radially disposed rods confined within the area of the receptacle adapted for supporting an inverted container, and a heating unit disposed above the rods, and said receptacle formed with an opening at the lowest point thereof.

3. A device of the character described comprising a receptacle formed with inwardly sloping side walls and an open top, radially disposed rods confined within the area of the receptacle adapted for supporting an inverted container, and a heating unit disposed above the rods, and depending legs anchored to the receptacle for supporting the receptacle.

4. A device for melting material adhering to the inner walls of a container comprising a receptacle having an open top and a drain opening in its bottom, a spider located in the receptacle below the top thereof and adapted to support the container in inverted position, a tube passing through a wall of the receptacle and having a vertical part passing through and supported by the central part of the spider, an electric heating element connected to the upper end of the tube, conductors for the elements passing through the tube, the heating element being located above the receptacle and a shield located above the top of the element for preventing the melting material from the top of the container from dropping upon said element.

In testimony whereof I affix my signature.
HOMER WISE.