March 25, 1924. 1,488,201

M. A. GLASCO

HEATING ATTACHMENT FOR VENDING MACHINES

Filed Feb. 15, 1922

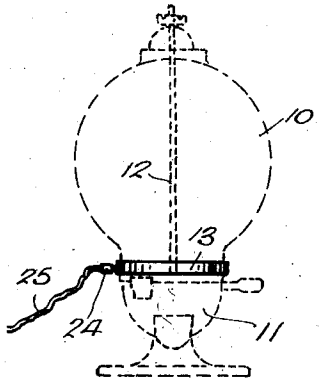


FIG. 1

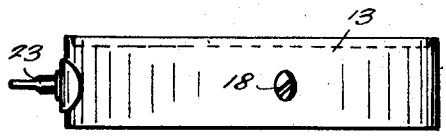


FIG. 2

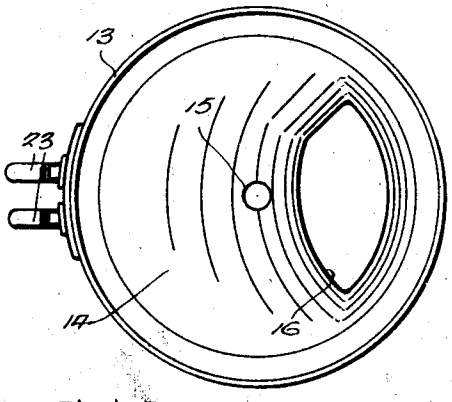


FIG. 3

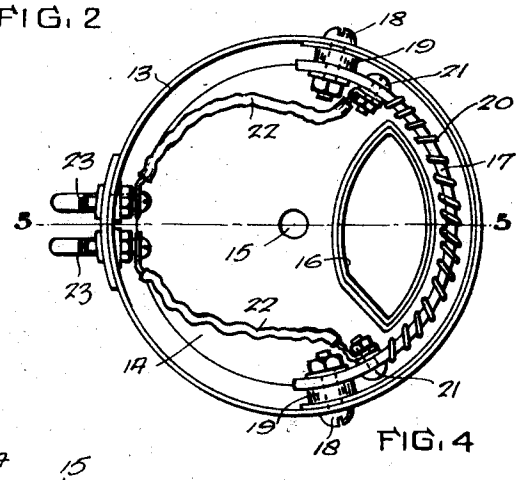


FIG. 4

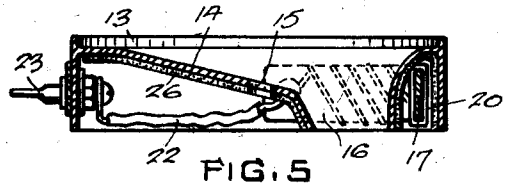


FIG. 5

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UNITED STATES PATENT OFFICE.

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HEATING ATTACHMENT FOR VENDING MACHINES.

Application filed February 15, 1922. Serial No. 536,743.

To all whom it may concern:

Be it known that I, MARK A. GLASCO, a citizen of the United States of America, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Heating Attachments for Vending Machines, of which the following is a specification.

My present invention relates generally to heating devices, and more particularly to an arrangement for heating the nuts within nut vending machines, particularly those nuts in position for discharge at the next operation of the machine, my object being the provision of a device which may either be applied to a vending machine at the time of manufacture or utilized as an attachment for those machines now in use.

My invention is designed in particular for that type of nut vending machine which includes an inverted transparent nut holding magazine or globe, which is held in place in connection with a metallic base and in such manner as to admit of the removal of the globe, and my invention proposes a device embodying a ring which may be inserted between the bowl and base, with a partition plate having a depending feed throat and with heat means carried inside of the ring adjacent to and around the throat so as to raidate heat among the nuts, particularly those about to be discharged from the machine, the heating means including externally projecting contact posts carried by the ring, with which a conventional socket, connected with a suitable source of current may be engaged.

My invention furthermore contemplates the use of a small or other low capacity heating coil either with or without conventional heat regulators of a thermostatic or other nature as for instance flashing devices utilized in connection with on and off signs.

In the accompanying drawing which illustrates my present invention and forms a part of this specification,

Figure 1 is a side view illustrating the practical application of my invention,

Figure 2 is a side view of my improved device removed,

Figures 3 and 4 are respectively a top and bottom plan view, and

Figure 5 is a sectional view taken through the device substantially on line 5—5 of Figure 4.

Referring now to these figures I have shown in Figure 1 a conventional type of nut vending machine in which a nut holding bowl 10, usually of transparent material, is held in inverted relation over a base 11, usually of metal, and containing the vending mechanism, the fastenings ordinarily employed including a rod indicated at 12 which passes vertically through the bowl and stands upright with respect to the base.

My invention proposes a heating device, particularly one which will effect heating of the nuts within the lower portion of the bowl 10 and especially those which have passed downwardly from this bowl and are within the base 11 ready for discharge, and contemplates for these purposes a globe supporting ring 13 the diameter of which is such as to permit it to telescope the upper portion of the base 11 of the machine to a slight extent, this ring 13 being formed around a base or partition plate 14 centrally apertured as at 15 to permit of the passage of the rod 12 upwardly therethrough. This base or partition plate 14 has a depending feed throat 16 adjacent to one side, which opens downwardly into the base 11 of the machine when the ring 13 is in place, and around which throat is disposed an arcuate coil supporting bar 17, the latter spaced from both the throat 16 and the ring 13 and connected at its opposite ends to spaced points upon the inner surface of the ring 13 by connecting bolts 18 and spacing thimbles 19.

Around and along the bar 17, which is formed of any suitable insulating material, is a coil 20 the opposite ends of which are connected to clamping screws 21 also receiving the ends of wires 22 which connect these clamping screws with the inner ends of contact posts 23 secured in spaced parallel relation to and through the ring 13 and which project externally of this ring to receive a conventional or other contact socket seen at 24 in Figure 1 upon one end of a feed wire 25 leading from any suitable source of current.

As above stated any suitable heat regulator or control may be utilized with the apparatus of my invention, and if so desired the lower surface of the base or par-

tition plate 14 as well as the inner surface of the ring 13 adjacent to and along the coil, may be lined with asbestos or other heat insulating material as at 26 in Figure 5 in particular so that the heat will be radiated within the base 11 of the machine and while capable of heating the nuts within the bowl 10 to a certain extent, will particularly affect the heating of those nuts which have dropped from the bowl and are within the base 11 ready for discharge.

I claim:

1. A heater for nut vending machines and the like including a globe supporting ring, a base or partition plate around which the ring is formed, said plate having a central aperture and a downwardly opening feed throat at one side of the aperture, an arcuate coil supporting bar of insulating material between the inner surface of the ring and around that portion of the feed throat nearest to the ring, said bar being secured at its opposite ends to the ring in spaced relation to the latter and to the said feed throat, contact posts fixed in spaced parallel relation through the ring, and a heating coil along and around the said bar, connected at its ends to the said contact posts.

2. A heater for nut vending machines and the like including a globe supporting ring, a base or partition plate around which the ring is formed, said plate having a central aperture and a downwardly opening feed throat at one side of the aperture, an arcuate coil supporting bar of insulating material between the inner surface of the ring and around that portion of the feed throat nearest to the ring, said bar being secured at its opposite ends to the ring in spaced relation to the latter and to the said feed throat, contact posts fixed in spaced parallel relation through the ring, and a heating coil along and around the said bar, connected at its ends to the said contact posts, and heat insulating material secured to the lower surface of the said base or partition plate and that portion of the inner surface of the ring adjacent to the heating coil, for the purpose described.

3. A heater for nut vending machines including a globe-supporting ring having externally projecting contact posts at one side, a base plate within the ring a coil supporting bar within and secured in spaced relation to the ring adjacent to said plate, and a heating coil around and along said bar, connected at its ends to said contact posts.

4. A heater for nut vending machines including a globe-supporting ring having externally projecting contact posts at one side, a coil-supporting bar within and secured in spaced relation to the ring, and a heating coil around and along said bar, connected at its ends to said contact posts, and a plate connected to the ring and extending across the opening in the ring, said plate, having a central aperture and a downwardly opening feed throat at one side of the aperture adjacent to the latter of which the coil supporting bar extends.

5. A heater for nut vending machines including a globe supporting ring having a base plate therein provided with a depending discharge neck, electrical connections extending externally of said ring, and a heating element within the ring having its terminals joined to said connections.

6. A heater of the character described consisting of a ring having a heating element therein and electrical connections for said element, said ring being insertable between the globe and base of nut vending machines and having a centrally apertured base plate provided with a depending discharge neck at one side of its center.

In testimony whereof I have affixed my signature.

MARK A. GLASCO.