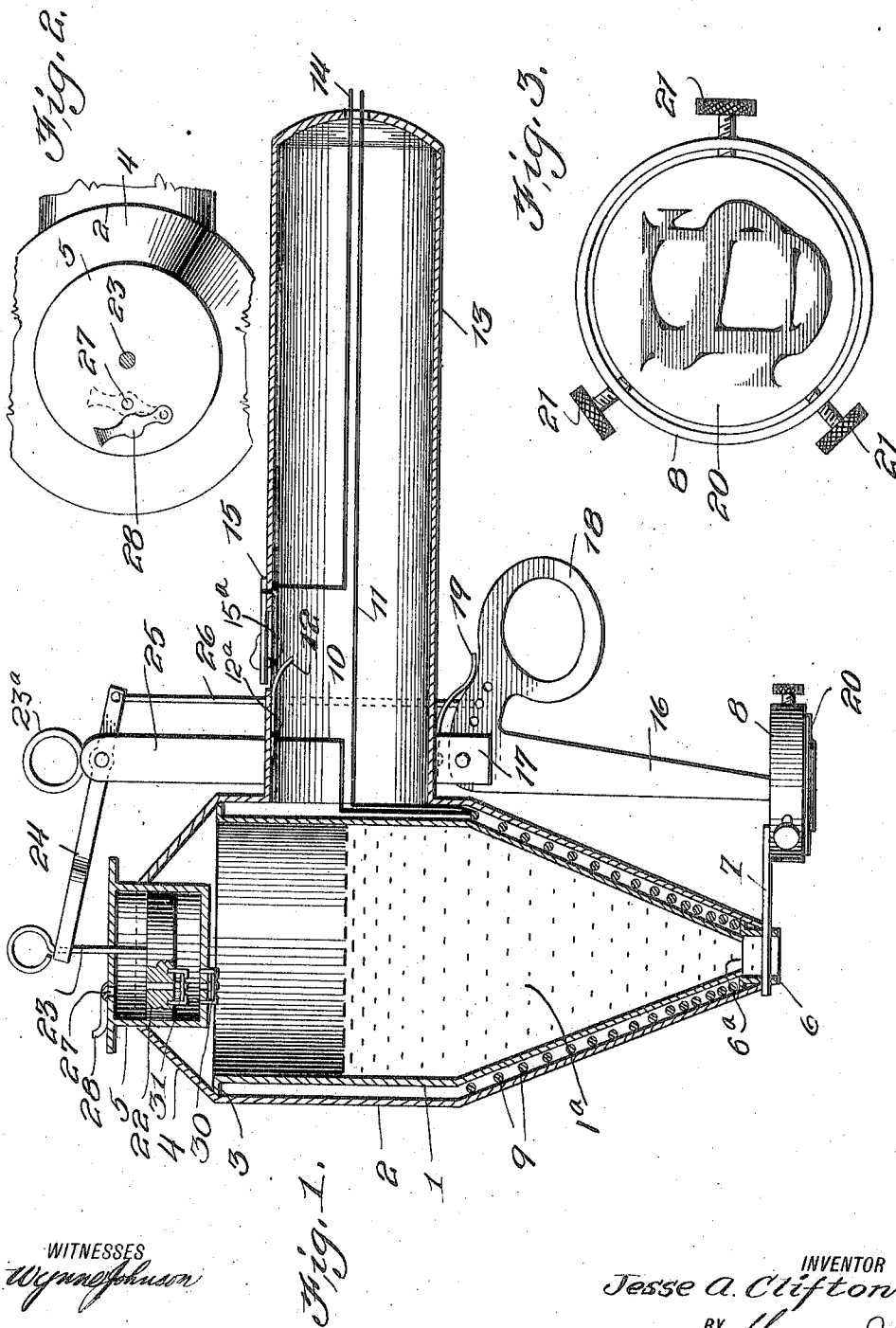


J. A. CLIFTON.
WAX MELTING MACHINE AND SEAL MAKER.
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WITNESSES
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WAX MELTING MACHINE AND SEAL MAKER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JESSE A. CLIFTON, a citizen of the United States, and a resident of Orangeburg, in the county of Orangeburg and State of South Carolina, have invented certain new and useful Improvements in Wax Melting Machine and Seal Maker, of which the following is a specification.

My invention is an improvement in wax sealers and has for its object to provide means for containing a quantity of wax, and having means for delivering small quantities of the wax when desired onto the object to be sealed, as for instance a package, and having other means operable at will for heating the wax to melt the same, the said sealer carrying a seal for making an impress on the wax delivered onto the object to be sealed.

In the drawings:

Figure 1 is a vertical section through the improved sealer.

Fig. 2 is a top plan view of the container for the wax.

Fig. 3 is a bottom plan view of the seal.

In the present embodiment of the invention, a jacketed magazine or container is provided, composed of an inner vessel or chamber 1 and an outer vessel or chamber 2. The top of the inner chamber is open as shown, and the bottom is funnel shaped or tapering and has a delivery opening 6^a.

At its top the inner chamber has an outwardly extending flange 3, which by its engagement with the outer chamber wall spaces the chambers apart. The outer chamber 2 has at its top an inwardly tapering flange or collar 4, forming a tapered or sloping top and a cylindrical cover 5 fits within the flange, to close the top of the outer chamber and of the container.

The lower end of the chamber 2 is also open, and a nipple 6 is arranged in the opening, encircling the delivery opening 6^a of the inner chamber, which delivers through the nipple. The nipple is normally closed by a spring closing plate 7, which is mounted to swing through a slot in the nipple, and this closing plate is connected to a seal carrying ring 8 to be presently described.

A resistance or heating wire 9 is arranged

in spiral form between the tapering portions of the two chambers, and the terminals of the coil indicated at 10 and 11 are connected with a suitable source of electrical energy, as for instance, a lighting circuit. The terminal 10 of the coil is connected with a spring contact plate 12 secured at one end as at 12^a within a hollow or tubular handle 13 which extends laterally from the upper portion of the chamber 2, and the terminal 11 is connected with a suitable socket which may engage a lighting fixture, as for instance a lamp socket. Another wire 14 connects the socket with a sliding contact member 15 mounted to slide on the handle 13, and having a contact member 15^a adapted to contact with the free end of the member or plate 12, to close the circuit through the wire 9.

Referring to Fig. 1 it will be noted that the handle 13 is slotted at the plate 12, so that the contact member 15^a on the sliding contact 15 may contact with the plate 12 to close the circuit. The free end of the plate 12 is curved downwardly as shown to facilitate engagement and disengagement of the parts. It will be obvious that instead of the sliding contact switch 12—15, the usual snap switch of the fixture might be utilized.

A bell crank 16 is pivoted to a bracket 17 depending from the handle 13, and one arm of the bell crank carries the ring 8 before mentioned. The other arm of the bell crank has a finger-piece 18 in the form of a loop for permitting the bell crank to be swung, and a spring 19 normally holds the parts in the position of Fig. 1, that is with the plate 7 closing the container.

The seal 20 which may carry any desired device on its sealing surface is held within the ring 8, by means of three set screws 21. These screws are threaded through openings into the ring and engage the seal at points 120° apart, and two of the screws are so arranged that they are spaced on each side of the closing plate 7.

In order to insure the positive delivery of the melted wax from the container, a plunger or piston 22 is arranged within the cylindrical cover 5, and this plunger has a stem 23 which extends upwardly through a

central opening in the cover. A lever 24 is pivoted intermediate its ends at a support 25 extending upwardly from the handle and one end of the lever is forked, and the stem 5 23 extends between the arms of the fork, and has a ring 23^a above the said arms. The other end of the lever is connected by a link 26 with that arm of the bell crank which carries the fingerpiece 18, said arm having a series of perforations or openings so that 10 the lower angularly bent end of the link 26 may be adjusted therein to regulate the stroke of the plunger or piston 22 and thus the degree of compression and quantity of 15 wax expelled. The arrangement is such that when the bell crank is swung to open the nipple 6, by withdrawing the closing plate 7, the plunger 22 will be pushed downwardly, compressing the air before the wax 1^a 20 in the container 1, and positively discharging a predetermined quantity of wax. The cover 5 has a pin hole opening 27, which may be closed by a cover plate 28 pivoted to the cover to control the action of the 25 plunger and air within the chamber and jacketed magazine or container 1, and the discharge of the wax from the latter.

The cylindrical cover 5 forms a cylinder in which the plunger or piston 22 operates, 30 and the bottom of the cylinder and the plunger are provided with check valves 30 and 31 to control the pumping or expelling action. When the plunger moves down, the valve 30 is open and the valve 31 closed, the 35 air being forced ahead of the plunger or piston and into the chamber 1 and against the wax to expel the same. When the plunger moves up, the valve 30 is closed and the valve 31 is open allowing the pressure to be 40 released, depending upon the position of the cover plate 28.

In operation, when it is desired to seal a package for instance, the package is placed beneath the nipple 6, the circuit is closed by 45 means of the sliding contact 15, and the bell crank is operated to open the container. The same movement depresses the plunger, and forces a quantity of air from the cylindrical cover into the jacketed chamber. Thus a 50 quantity of wax will be positively expelled from the chamber. The handle 13 is of insulating material in practice.

I claim:

1. A device of the character specified comprising a container for wax, said container 55 having a restricted outlet and having a handle extending laterally therefrom, a closing plate for the restricted outlet, a bell crank pivoted to the handle, one of the arms of the bell crank having a finger-piece for swinging said bell crank, and the other carrying 60 a seal supporting member, the closing plate being connected with the seal supporting member, and a spring normally acting on the bell crank to close the outlet of the container,

and means controllable at will for heating the wax.

2. A device of the character specified comprising a container for wax, said container 70 having a restricted outlet and having a handle extending laterally therefrom, a closing plate for the restricted outlet, a bell crank pivoted to the handle, one of the arms of the bell crank having a finger-piece for swinging said bell crank, and the other carrying 75 a seal supporting member, the closing plate being connected with the seal supporting member, and a spring normally acting on the bell crank to close the outlet of the container. 80

3. A device of the character specified, comprising a container for the wax having an outlet, a closing plate for the outlet, manually operated means for moving said plate 85 into and out of closed position, and means for positively expelling the wax from the container controlled by the moving means for the cover plate.

4. A device of the character specified, comprising a container for the wax having an 90 outlet, and closing plate for the outlet, manually operated means for moving said plate into and out of closed position, means for positively expelling the wax from the container controlled by the moving means for 95 the cover plate, and means controllable at will for heating the wax.

5. A device of the character specified, comprising a container for the wax having 100 an outlet, a closing plate for the outlet, manually operated means for moving said plate into and out of closed position, and means for positively expelling the wax from the container controlled by the moving means 105 for the cover plate.

6. A device of the character specified, comprising a container having an outlet, manually operated means for opening and closing the outlet and normally spring 110 pressed into closing position, means for expelling a portion of the wax when the cover plate is open and controlled by the cover plate opening means, and means controllable at will for heating the wax.

7. A device of the character specified, 115 comprising a container having an outlet, manually operated means for opening and closing the outlet and normally spring pressed into closing position, means for expelling a portion of the wax when the cover 120 plate is open and controlled by the cover plate opening means.

8. A wax melting machine and seal maker comprising a container for wax, said container having a restricted outlet and having 125 a handle extending laterally therefrom, a closing plate for the restricted outlet, a pivotally mounted bell crank, one of the arms of the bell crank having a finger piece for swinging said bell-crank and the other 130

carrying a seal supporting member, the closing plate being connected with the seal supporting member to be actuated therewith, and means controllable at will for heating 5 the wax. manually operated means for opening and closing the outlet and normally fastening it in closing position, means for expelling a 10 portion of the wax under pressure when the closing means is open, and means controllable at will for heating the wax.

9. A wax melting machine and seal maker comprising a container having an outlet,

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