March 11, 1924. 1,486,404

S. M. WEISBERGER

ELECTRIC WAX SEALER

Filed Aug. 19. 1922

Fig. 1

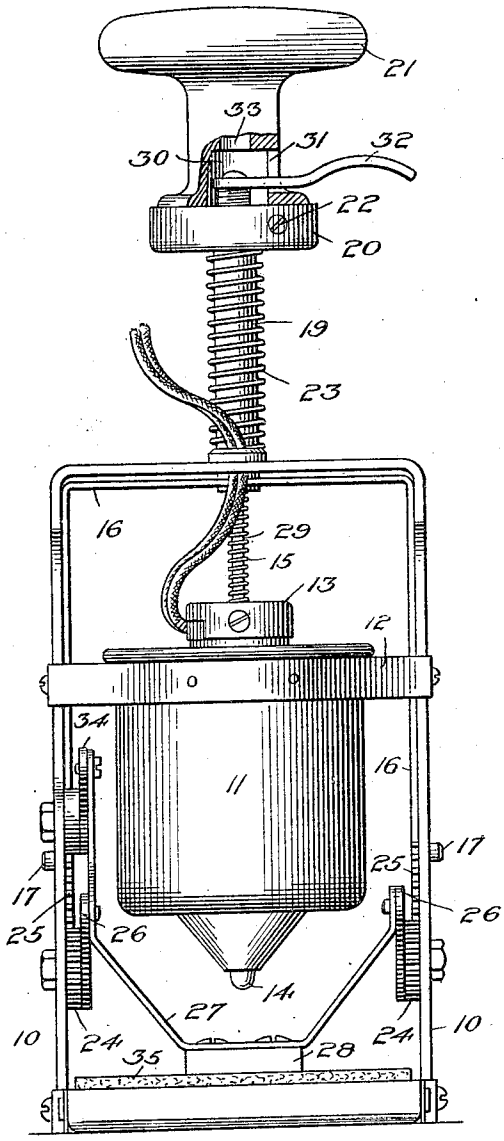
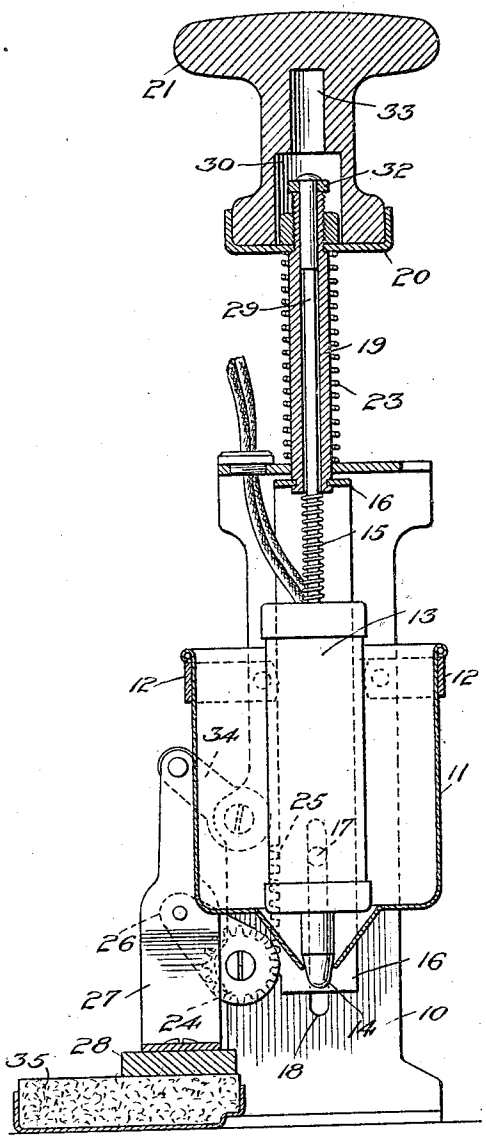


Fig. 2.



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UNITED STATES PATENT OFFICE.

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ELECTRIC WAX SEALER.

Application filed August 19, 1922. Serial No. 582,929.

To all whom it may concern:

Be it known that I, SAMUEL M. WEISBERGER, a citizen of the United States, residing at Scranton, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Electric Wax Sealers; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to machines for applying sealing wax or like material to envelops or other articles and impressing a suitable seal on such material while it is plastic.

An object of the invention is to so arrange the several parts, which are few in number, that the device will be strong, reliable in its operation, and of such simple construction and operation as to permit it to be readily repaired in the event any of the parts should get out of order by any one possessed of the slightest mechanical ability.

More particularly the invention contemplates the provision of a frame having a stationary wax container therein provided with an outlet adapted to be opened and closed by a lever that is operated independently of the operating handle which impresses the die upon the plastic wax, the connections between said handle and die comprising one or more racks for rotating a corresponding number of gears mounted on said frame.

With these and other objects in view the invention consists in certain novel details of construction and combinations and arrangements of parts all as will be hereinafter more fully described and the novel features thereof particularly pointed out in the appended claims.

In the accompanying drawings,—

Figure 1 is a front elevational view of a wax sealer embodying the present improvements.

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

The sealer comprises a supporting frame 10 in which a wax pot or container 11 is fixedly secured by a strap or band 12 encircling said pot and attached to the sides of frame 10. The wax container has any desired type of electrical heating unit 13 mounted therein for maintaining the wax in plastic condition and at its bottom said container has an outlet to permit some of the plastic wax to drop on the letter or other article placed beneath the container to be sealed. To regulate the flow of wax from container 11 the outlet in the container is provided with a manually operable valve 14 which is normally held closed by a spring 15. The operation of valve 14 will be more fully described later.

Slidably mounted within frame 10 is a yoke 16, said yoke being guided in its movements by pins 17 carried thereby and working in vertical slots 18 in the sides of frame 10. Said yoke 16 is adapted to be actuated by an operating handle 19 slidably mounted in the top of frame 10 and attached to the upper end of said handle by a nut is a flanged collar 20 in which a knob 21 is secured by a set screw 22. For normally holding the handle and the yoke in their uppermost positions a spring 23 surrounding the handle is interposed between the collar 20 and the top of frame 10.

Journaled on the inner faces of the sides of frame 10 are gear wheels 24 adapted to mesh with racks 25 formed on the lower ends of yoke 16 for rotating said gears when the handle and yoke are depressed, and mounted on said gears and adapted to be rotated therewith are arms 26 carrying at their outer ends a loosely mounted frame 27 in which is mounted the die 28. Normally, the die and the die frame are located to one side of the wax container but after a letter has been placed under said container and sufficient wax deposited thereon, the operating handle 19 is depressed whereupon the gears 24 will be rotated by racks 25 with the result that the die will be swung over and then down on to the plastic wax, making the desired impression, the frame constantly maintaining a vertical position.

For operating the valve 14 in the bottom of wax container 11, said valve is mounted on the lower end of a stem 29 that extends upwardly through handle 19 into a chamber 30 in knob 21. Stem 29 is headed at its upper end and extending inwardly through a slot 31 in knob 21 is a finger piece 32 adapted to engage the under side of said headed portion of the stem whereby the operator may open valve 14 by a slight upward movement of the finger piece. To permit the knob and handle 19 to be de-

pressed without affecting the valve 14 or its operating connections, the stem 29 is loose in handle 19 and finger piece 32 is loose on said stem so that as the knob is depressed the stem is free to move into a recess 33 extending upwardly from chamber 30. With this arrangement, the wax container is immovably mounted in the frame, the movement of the parts for actuating the die taking place entirely independently of the connections for regulating the flow of wax from said container .

In addition to this advantage, the operating parts for the die are not only few in number but they are also of simple and strong construction, imparting durability to the device as a whole. So far as the valve operating mechanism of the present invention is concerned, it will be apparent that any form of die moving mechanism may be used in lieu of that shown and this phase of the invention is not to be limited to the specific form of die operating mechanism shown except as defined in the appended claims.

To prevent wobbling of the die frame 27 on arms 26, more or less rigidity is imparted to said frame by one or more supporting arms 34 pivotally connected to the upper end of the die frame and the supporting frame 10. For maintaining the face of die 28 moist, a moistening pad 35 is carried at one side of frame 10 in position for the die to rest thereon when handle 19 is in its uppermost position.

What I claim is:

1. In a device of the character described, the combination of a supporting frame, a wax container supported in the frame and having an outlet therein, means for opening and closing said outlet, an operating handle, gear wheels mounted on said frame, a die normally positioned to one side of the frame and wax container, connections between said die and gears and connections between said gears and handle for rotating the gears and shifting the die to a position beneath the outlet opening of the wax container.

2. In a device of the character described, the combination of a supporting frame, a wax container carried by the frame and having an outlet therein, means for opening and closing said outlet, a die normally positioned to one side of the wax container, a rack slidably mounted in the frame, a gear wheel connected to the die and engaging said rack, and means for moving said rack to rotate the gear and move the die to a position beneath the outlet of the wax container.

3. In a device of the character described, the combination of the supporting frame, a wax container fixedly mounted in the frame and having an outlet opening, a valve for said opening, a valve stem slidably mounted in the frame, a finger piece for actuating the valve stem, a die normally positioned to one side of the wax container, and means for moving the die to a point beneath the outlet of the wax container.

4. In a device of the character described, the combination of the supporting frame, a wax container fixedly secured in the frame and having an outlet opening, a valve closing said opening, means for actuating said valve, gear wheels journaled in the frame and having radially projecting arms, a die carried by said arms and normally positioned to one side of the wax container, and means for rotating said gears and arms to shift the die to a position beneath the outlet of the wax container.

5. In a device of the character described, the combination of a supporting frame, a wax container fixedly secured in the frame, an operating handle slidably mounted in the frame, a yoke depending from said handle, racks on said yoke, gears on the supporting frame meshing with said racks, a die normally positioned to one side of the wax container, and connections betweeen said gears and the die.

6. In a device of the character described, the combination of the supporting frame, a movable die, an operating handle for actuating the die, a fixed wax container having an outlet therein, a valve normally closing said outlet, and means slidably mounted in the operating handle for opening said valve.

7. In a device of the character described, the combination of the supporting frame, a movable die, an operating handle slidably mounted in the frame for actuating said die, a fixed wax container having an outlet therein, a valve normally closing said outlet a valve operating stem alined with the handle, and means for opening said valve, said valve opening means and the operating handle each being operable independently of the other.

8. In a device of the character described, the combination of the supporting frame, a wax container carried by the frame, means permitting discharge of wax from the container, a vertically arranged die frame positioned to one side of the supporting frame, a die carried by the die frame, and means for moving the die to a point beneath the wax container, said die frame at all times maintaining its vertical arrangement.

SAMUEL M. WEISBERGER.