Dec. 28, 1937. N. B. HENLEY 2,103,945

ELECTRIC BAG SEALER

Filed Dec. 14, 1936

Fig. 1.

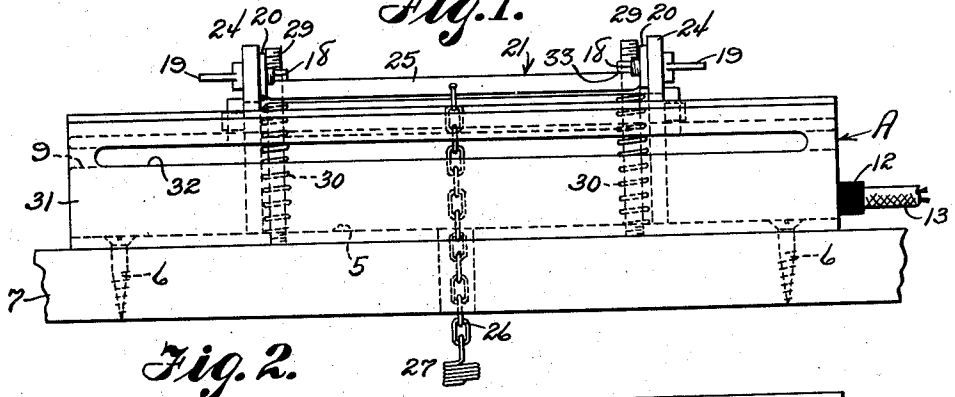


Fig. 2.

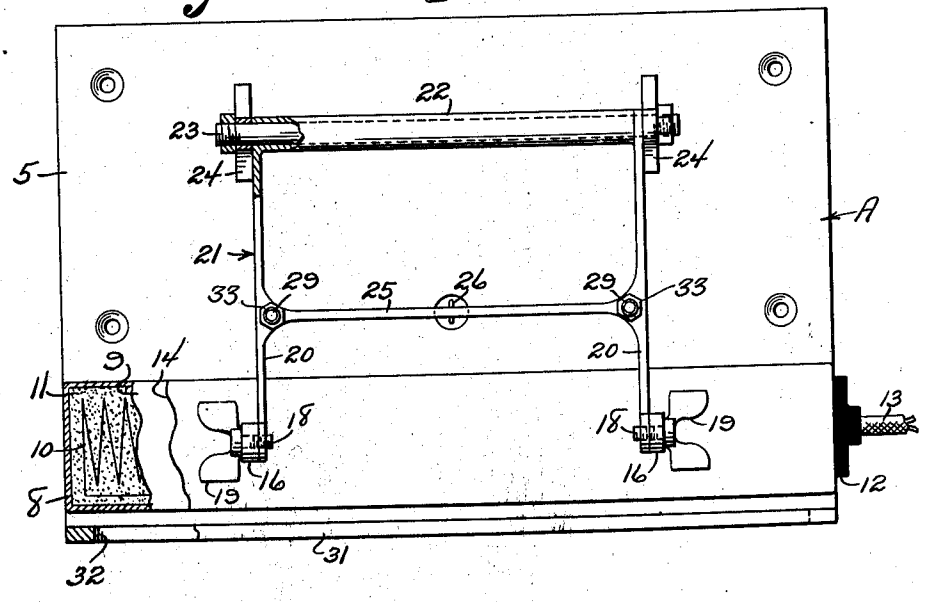
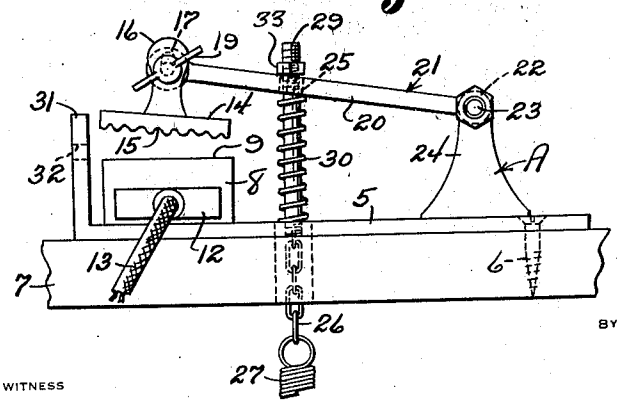


Fig. 3.



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WITNESS

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ELECTRIC BAG SEALER

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Application December 14, 1936, Serial No. 115,845

1 Claim. (Cl. 226—56)

The invention relates to a bag sealing device and more especially to an electric bag sealer.

The primary object of the invention is the provision of a device of this character, wherein the open mouth end of a bag when filled can be conveniently sealed with dispatch, the mouth end of the bag being directed to an electric heating element so that the sealing medium carried at the mouth end of the bag can be softened whereby by pressing the open end closed the said end will be sealed.

Another object of the invention is the provision of a device of this character, wherein the same is actuated by the foot of a person when engaging the foot upon a pedal after the introduction of the open mouth end of a bag between an electric heater and a presser head, the latter being controlled by the pedal and thus the open mouth of the bag will be closed and sealed.

A further object of the invention is the provision of a device of this character, which is extremely simple in its construction, thoroughly reliable and efficient in operation, easily actuated, enabling the sealing of the bag with dispatch, and inexpensive to manufacture.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawing, which discloses the preferred embodiment of the invention and pointed out in the claim hereunto appended.

In the accompanying drawing:

Figure 1 is a front elevation of the device constructed in accordance with the invention.

Figure 2 is a top plan view partly in section.

Figure 3 is an end elevation.

Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawing in detail, A designates generally the device, in this instance comprising a flat base plate 5 preferably of substantially rectangular shape and made from metal having suitable screw holes for screws 6 which fasten the base plate 5 upon a table top, a portion of the same being indicated at 7 for the holding of the device in a fixed position thereon.

Formed longitudinally of the base plate 5 close to one longer edge thereof, preferably the outermost edge, is a casing 8 having a flat work supporting top 9 and within this casing is an electric heating element 10 in the form of a resistance coil embedded in insulation 11 interiorly of said casing. Suitably built into the casing 8 and in association with the heating element 10 is a thermostat (not shown), being preferably located at 12, and the electric current feed line indicated at 13, respectively, which latter is equipped with a suitable cutoff switch (not shown).

Above the top 9 of the casing 8 is a presser head 14 having a corrugated work engaging face 15 while rising from the upper face of this head are spaced hanger ears 16, each having an elongated slot 17 and these slots adjustably accommodate set screws 18, which are formed with winged heads 19 and are threaded in the arms 20 of a double lever frame 21 formed with a pintle sleeve end 22 accommodating a hinging pintle 23 mounted in bearings 24 built upon the base plate 5 rearwardly of the casing 8 thereon. In this manner the double lever frame 21 is hinged for vertical swinging movement for the raising and lowering of the presser head 14 to and away from the casing 8 at the work face 9 thereof.

The frame 21 at an intermediate transverse brace 25 thereof carries a short length of a link chain 26 to which is attached a compression spring, a portion thereof being indicated at 27, and this spring is adapted to be attached to a foot pedal (not shown) mounted at the floor beneath the table top 7 and foot controlled so that by depressing the pedal the presser head 14 will be lowered for pressing closed a paper bag at the open mouth thereof bearing an adhesive substance when inserted between the faces 9 and 15, respectively, so that when the heating element 10 is active the mouth will be sealed closed as the adhesive substance will be heated for the sealing of such mouth of the bag. The spring 27 exerts a tension on the frame 21 when the foot pedal is depressed for the exertion of pressure by the head 14 when moved toward the casing 8. The table top 7 is formed with a suitable clearance opening 28 for the chain 26.

Fixed in the plate are vertical guide pins 29 slidably engaged by the lever frame 21 while surrounding these pins are coiled tensioning springs 30 for effecting the lifting of the frame 21 when foot pressure has been relieved from the pedal so that the head 14 will be raised with respect to the casing 8.

Forwardly of the casing 8 at the edge of the base plate 5 next thereto is an upstanding slotted bag guide 31, the slot therein being indicated at 32 for accommodating the bag at the remote open mouth end thereof and directing the same onto the top 9 of the casing 8 for the sealing of the mouth end of such bag when the device is actuated.

The screws 18 adjustably connecting the head with the frame 21 enable the proper adjustment of the head to assure the sealing operation of the device.

The pins 29 at their upper ends have adjustable stops 33 limiting the upward swing of the frame 21.

What is claimed is:

A sealing device of the character described comprising a base plate, a block-like heating element arranged on said base plate and having a flat horizontally arranged work engaging top, a presser head above said top and having a fluted work engaging face, a lever frame hinged to the base plate, winged screws adjustably attaching the said head to the frame for vertical swinging adjustment thereof, means operating said lever frame for the raising and lowering of the head relative to the heating element and urging said frame to normal raised position, a vertical work guide adjacent to said heating element and having a slot with its lowermost edge flush with the top of the latter for directing work between the heating element onto the top thereof and the head when the latter is in raised position, and a yieldable element included in the operating means for the lever frame.

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