May 24, 1938. J. PESARK 2,118,415

DEVICE FOR APPLYING SEALING WAX

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Fig. 1.

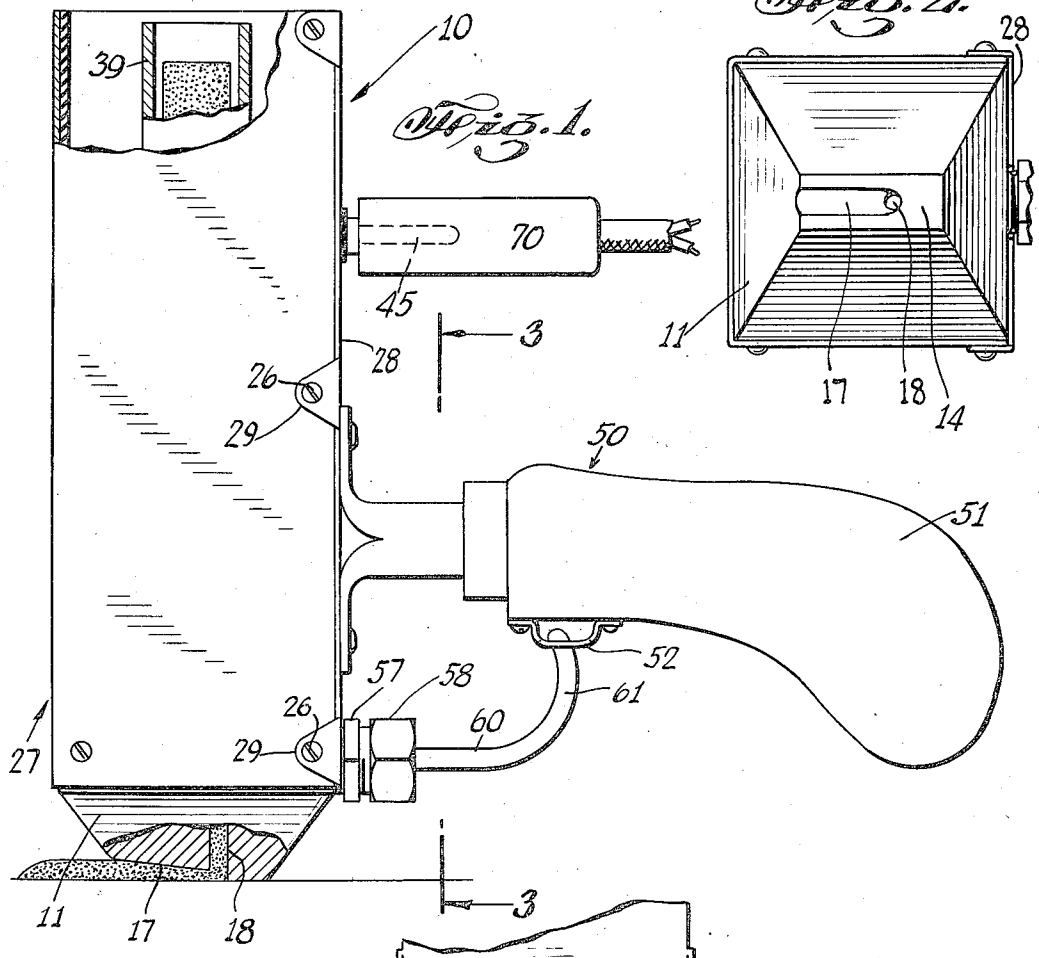
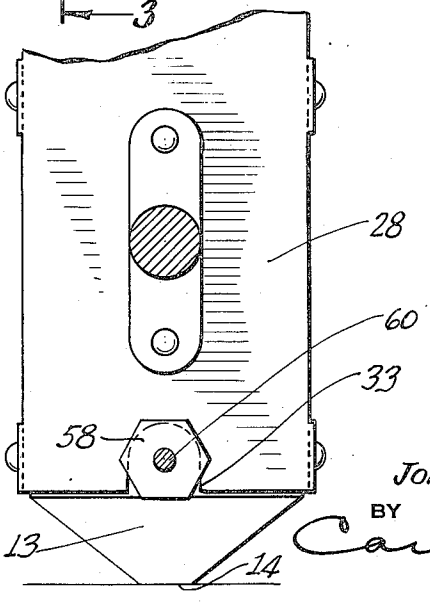


Fig. 2.

Fig. 3.



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Fig. 4.

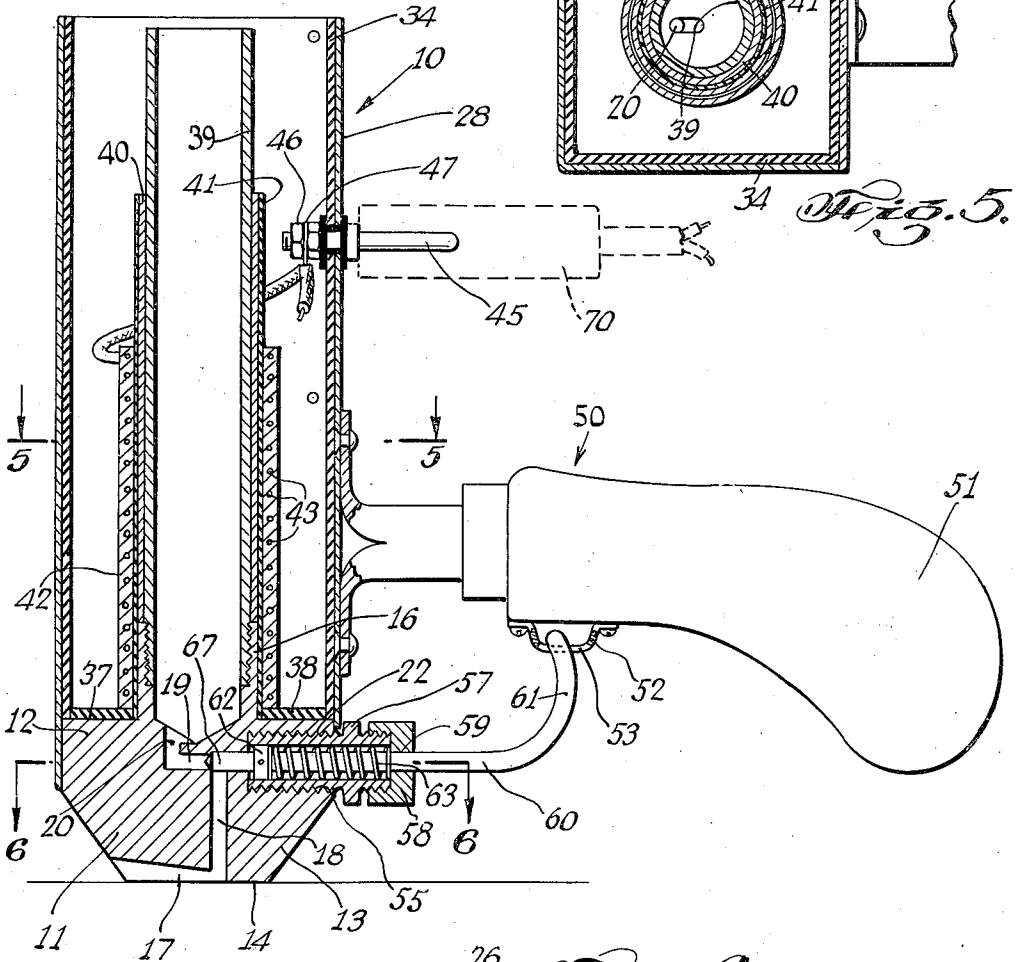
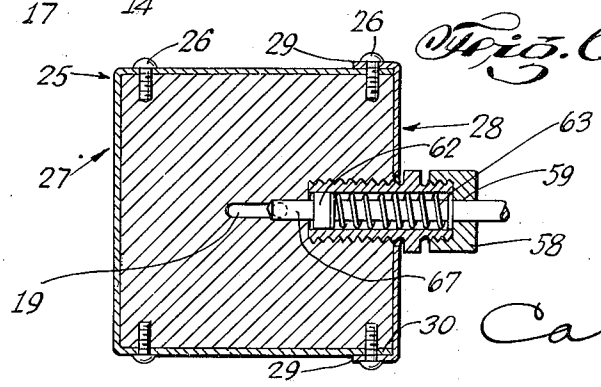


Fig. 5.

Fig. 6.



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Patented May 24, 1938 2,118,415

UNITED STATES PATENT OFFICE

2,118,415

DEVICE FOR APPLYING SEALING WAX

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Application November 3, 1936, Serial No. 108,948

4 Claims. (Cl. 219—21)

This invention relates to devices for applying sealing wax. It is particularly directed to an electric heater and applicator for sealing wax and the like materials which are normally hard and soften upon heating.

An object of this invention is to provide a device of the character described which is easy to handle and economical in use, and in which a stick of sealing wax may be softened so as to flow, in a relatively short time.

A further object of this invention is to provide a neat, compact and rugged device of the character described, which shall be relatively inexpensive to manufacture and practical and efficient to a high degree in use.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements, and arrangement of parts which will be exemplified in the construction hereinafter described, and of which the scope of application will be indicated in the following claims.

In the accompanying drawings, in which is shown one of the various possible illustrative embodiments of this invention,

Fig. 1 is a side elevational view of an applicator device embodying the invention, with parts broken away to show the interior construction;

Fig. 2 is a bottom plan view of the device shown in Fig. 1;

Fig. 3 is a cross-sectional view taken on line 3—3 of Fig. 1;

Fig. 4 is a view similar to Fig. 1, but with the body of the device shown in cross section;

Fig. 5 is a cross-sectional view taken on line 5—5 of Fig. 4; and

Fig. 6 is a cross-sectional view taken on line 6—6 of Fig. 4.

Referring now in detail to the drawings, 10 designates a device embodying the invention, here shown for the purpose of illustration in the form of an applicator for sealing wax and the like substance which is hard under normal temperatures, but softens so as to flow when heated. The device 10 comprises a base 11 made of metal or any other suitable material having an upper portion 12 of square transverse cross section and a bottom frusto-pyramidal portion 13 having a flat bottom surface 14. Extending upwardly from the base is a central tubular, internally threaded nipple portion 16. The bottom surface 14 is formed with a longitudinal groove 17 of substantially equal width throughout but increasing in height toward the outer end thereof, as shown in Fig. 4 of the drawings. Extending upwardly from the inner end of the groove 17 is a vertical passage 18. The vertical passage 18 meets a horizontal passage 19 located below the nipple 16. One end of the passage 19 communicates with a vertical opening 20 extending into the interior of the nipple 16. The base 11 is furthermore formed with a horizontal screw-threaded opening 22 communicating with the horizontal passage 19.

Attached to the base 11 and extending upwardly therefrom, is a casing 25 of substantially square cross section and fixed to the base by screws 26. The casing may consist of a member 27 having three walls contacting three sides of the base and a wall 28 contacting the fourth side of the base and provided with tabs 29 overlapping the adjacent edges 30 of the member 27 and fixed thereto by said screws 26. The bottom edge of the wall 28 is provided with a central notch 33, for the purpose hereinafter appearing.

Within the casing 25 and contacting the inner surfaces of said casing, is an insulating liner 34, preferably made of heat insulating material. Contacting the upper surface 37 of the base, and disposed between the liner 34 and the nipple portion 16, is an insulating disc 38, likewise made of heat insulating material.

Screwed to the nipple 16, and disposed axially of casing 25, is an upwardly extending tubular member 39 made of metal or other suitable material and terminating somewhat short of the upper open end of the casing. Surrounding said tubular member 39 and resting on the upper end of the nipple 16 is a sleeve 40. Surrounding said sleeve is a tubular insulating liner 41. Surrounding the tubular insulating liner 41 is a heating element 42 containing a high resistance wire 43.

Fixed to the wall 28 are a pair of plug or jack members 45 extending through said wall and insulated therefrom, and having screw terminals 46 within the casing, to which are connected the ends 47 of the resistance wire 43.

Fixed to the wall 28 and extending substantially at right angles thereto, is a handle 50 of insulating material, having a downwardly curved portion 51 shaped like a handle of a pistol. Attached to the underside of the handle 50 is a bracket 52 formed with a longitudinal slot 53.

Screwed within the threaded opening 22 of the base 11 is a screw-threaded member 55, projecting through notch 33 and having an intermediate nut portion 57. Screwed on the outer end of the tubular member 55 is a cap 58. The cap 58 is formed with a central opening 59. Slidably extending through said tubular member 55

and through the opening 59 is a trigger valve member 60 having an upwardly curved finger engaging portion 61, the upper end whereof projects within the slot 53 of the guide bracket 52. The trigger member 60 has a collar 62 within the tubular member 55. A coil compression spring 63 is interposed between the cap 58 and said collar 62. One end 67 of the trigger projects into the passage 19 and is adapted to close the upper end of the passage 18. The spring 63 normally retains the trigger in such position that the passage 18 is closed, so as to cut off communication between the interior of the tube 39 and said passage 18. An electric socket 70 leading to a source of power supply may be attached to the jacks 45.

The operation of the device will now be described. A stick of sealing wax is put into the tubular member or barrel 39. The current is then turned on to heat the heating element 42. The stick of sealing wax will gradually soften, melt and flow through the passage 20 partially into the passage 13. When the sealing wax is sufficiently heated, the trigger may be pulled to uncover the passage 18 and permit the sealing wax to flow downwardly into the groove 17. The device may be worked or moved over the place where the sealing wax is to be applied by grasping the handle. The trigger may be worked by a finger of the hand that grasps the handle. Release of pressure on the trigger will cause the trigger valve to close passage 18 and cut off supply of sealing wax. In this manner envelopes, packages, or papers may be quickly and easily sealed. The sealing wax may be left in the tube 39 after the current is shut off for use when it is again desired to apply sealing wax, at which time the current is again turned on. By opening and releasing the trigger valve quickly, the operator may ascertain whether the wax is sufficiently heated to be applied.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawings is to be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A device of the character described, comprising a base having a longitudinal groove on the underside thereof and a vertical passage communicating with said groove, said base being formed with a horizontal screw-threaded opening, a tubular screw-threaded member screwed within said opening, a valve slidably mounted within said tubular member and adapted to close said vertical passage, said valve having an upwardly curved finger engaging portion, a casing on said base extending upwardly therefrom, a handle fixed to said casing, a guide bracket on said handle provided with a slot receiving one end of the upwardly curved portion of the valve, and electric heating means on said device.

2. A device of the character described, comprising a base having a groove on the undersurface thereof and a vertical passage communicating with said groove, said base being formed with an upwardly extending nipple, a tubular member screwed to said nipple, said passage communicating with the interior of said tubular member, a casing attached to said base and surrounding said tubular member, a handle attached to said casing, an insulating liner on the inner surface of said casing, an insulating member surrounding said tube, a heating element surrounding said tube, a valve slidably mounted on said base and adapted to close said passage, said valve being located beneath said handle and having an upwardly extending finger engaging portion adapted to be engaged by a finger or a hand grasping the handle, a pair of jacks mounted on said casing and insulated therefrom and attached to said heating element, and a guide bracket on said handle provided with an elongated slot receiving one end of the finger engaging portion of said valve.

3. An applicator comprising a base having a square upper portion and a frusto-pyramidal lower portion, said latter portion having a flat, undersurface formed with a groove extending to an edge of said surface, said base being formed with a vertical passage communicating with one end of the groove, and being furthermore formed with an upwardly extending central nipple, a tubular member screwed to said nipple and extending upwardly therefrom and being open at the top, a casing attached to the upper portion of the base and extending upwardly therefrom and likewise being open at the top, said casing surrounding said tubular member and being spaced therefrom, an insulating disc on the upper surface of said base and disposed between said nipple and casing, an insulating liner on the inner surface of said casing, an electric heating element surrounding said tubular member, a pair of jacks mounted on a wall of said casing and being insulated therefrom and electrically connected to the heating element, a handle fixed to said wall of said casing and extending at right angles thereto and having a downwardly curved portion adapted to be grasped by a hand, a bracket fixed to the underside of said handle and having an elongated slot likewise disposed at right angles to said wall of said casing, said base being formed with a screw-threaded opening, a screw-threaded member screwed within said opening, a trigger valve having a portion slidably extending through said tube and adapted to close said vertical passage, a collar on said valve disposed within said screw-threaded tubular member, spring means engaging said collar for normally maintaining the valve in closed position, said trigger valve having an upwardly extending finger engaging portion, the upper end whereof projects into said slot.

4. A device of the character described, comprising a base having a flat horizontal undersurface formed with a groove, a nipple extending upwardly from said base, a tubular member screwed to said nipple, a passage interconnecting the interior of the tubular member with said groove, a handle on said member, and a trigger valve on said base for shutting off said passage, said groove being elongated and increasing in cross-sectional area, longitudinally thereof.

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