To all whom it may concern:

Be it known that I, JOHANN G. WAGLMANN, a citizen of the United States, residing at the city of Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Electric Sealing Devices, of which the following is a specification.

My invention relates to improvements in electric sealing devices. The object of my invention is to provide an electric sealing device which is simple in construction and unaffording and rapid in operation, which uses a minimum amount of wax for the purpose of the device, and in which a seal may be readily changed.

To said ends my invention consists in the novel arrangement and combination of parts shown in the accompanying drawings, described in the following specification and pointed out in the appended claims.

Referring to the accompanying drawings illustrating my invention Figure 1 shows a side view of my said sealing device, and Figure 2 a longitudinal section thereof.

In the figure 1 shows a chamber for the purpose of containing wax, the same being surrounded by the tube 15 contained in the sleeve 25, an air space 22 being provided between said tube and sleeve. The sleeve has an opening 20 for ventilation. The lower end of the tube 15 has a thread 3 so that the interiorly threaded cap 2 may be screwed thereon. The cap 2 supports the seal 4 and the said seal has a screw 4* whereby the seal may be screwed to the cap, but may be removed by the substitution of another seal.

The device is provided with a casing 6 which fits over the tube 15 and is penetrated by screws 17 which extend through slot 18 of the casing 6 and are secured in said tube. The screws not only permit the turning of the casing 6 in the slot but also secure the casing to the tube and limit the turning of the casing by the extent of the slot. The casing is provided with a covering or hot point 11 for ironing out the wax, said covering of suitable metal has an opening 8 to permit air to enter the chamber 1 to facilitate the flowing of the molten wax. The covering 11 is secured to the head 30 by screws 16. The tube 15 is provided with a stop 9 whereby the flow of molten wax may be stopped by the shutting of the slot 8 by the turning of the casing 6. Resistance wire 27 is wound on the drum 10 and the said wire is covered by the asbestos covering 26, an air space being provided between the said asbestos covering and the casing 6. The casing is provided with vent holes 10 as shown in Figure 1. Connections 12 for wire extend through annular wall 19 to contacts 13 supported by arm 14, the cord 5 containing the conducting wires as shown and passing through an opening 31 chamber 1. Mica insulation 28 insulates the resistance wire 27 from the drum 10. The casing 6 is provided with a hook 23 for hanging the device by a ring 24 suitably secured to the cord 5 which is supported by the plug 32.

To operate the device a stick of wax should be inserted in the chamber 1 by unscrewing cap 2 from tube 15, the cap 2 having a threaded aperture for containing the screw 4* of said seal. By attaching cord 5 containing wire to the source of electric supply and turning casing 6 to the left until the pointer 7 thereon points to "on" as shown in Figure 1 the electric current is turned on by the switching contacts or connections 12 and switching contacts 13, the turning of part 6 suitably opened for ventilation, thereby permitting the flow of molten wax. Drum 10 being wound with resistance wire, the same is heated upon the turning on of the current, and by reason of such heating the wax in the chamber within said drum is heated and reduced to a molten form and flows from opening 8 if the device be held with the head 30 down. After the desired amount of wax has been permitted to escape, the current is turned off by the turning of the casing 6 until the pointer points to the word "off" as shown in Figure 1, the opening 8 being also closed by such turning. Then by using the covering 11 of said 30 which has been heated by said current to smooth the wax which has been deposited to cover the desired space, the seal 4 may be used to make the desired impression.

The spring connections 12 are mica covered where contained in openings of wall or flange 19 and contacts 13 are insulated from the arms or supports 14, being prefer-
ably brazed to tube 15. The holes 19' and 20 provide ventilation so as to keep the device cool within air spaces 21 and 22. The covering 11 is preferably integral with casing 6.

I claim:

1. In an electric sealing device, the combination of a tube having a lower portion and a contracted upper portion, a cap supporting a seal removably secured to the lower portion of said tube, a casing having a head containing a longitudinal opening and surrounding the upper portion of said tube and projecting over the lower portion thereof, a drum in said casing, and current conducting means leading into said casing and encircling said drum.

2. In an electric sealing device the combination of a tube having a lower portion and a contracted upper portion, a cap supporting a seal removably secured to the lower portion of said tube, a sleeve having openings surrounding the lower portion of said tube, said sleeve being out of contact with said tube, a casing having a head containing a longitudinal opening and surrounding the upper portion of said tube and projecting over the lower portion thereof, a drum in said casing, and current conducting means leading into said casing and encircling said drum.

3. In an electric sealing device the combination of a tube having a lower portion, and a contracted upper portion having a stop at its upper end extending laterally therein, a cap supporting a seal removably secured to the lower portion of said tube, a sleeve having openings surrounding the lower portion of said tube, said sleeve being out of contact with said tube, a casing having a head containing a longitudinal opening and surrounding the upper portion of said tube and projecting over the lower portion thereof, a drum in said casing and encircling said drum.

4. In an electric sealing device the combination of a tube having a lower portion and a contracted upper portion having a stop at its upper end extending laterally therein, a cap supporting a seal removably secured to the lower portion of said tube, a sleeve out of contact with said tube having openings surrounding the lower portion of said tube, a casing having a head containing a longitudinal opening and surrounding the upper portion of said tube and projecting over the lower portion thereof, and said casing having a transverse slot penetrated by a screw, a drum in said casing and encircling said drum.

5. In an electric sealing device the combination of a tube having a lower portion, and a contracted upper portion having a stop at its upper end extending laterally therefrom, a cap removably secured to the said tube having means for supporting a seal, a sleeve having openings surrounding the lower portion of said tube and out of contact therewith, a casing having side openings and having a head containing a longitudinal opening and surrounding the upper portion of said tube and projecting over the lower portion thereof, a drum in said casing and current-conducting means leading into said casing and encircling said drum.

6. In an electric sealing device the combination of a tube having a lower portion and having an upper portion having a stop at its upper end and extending laterally therefrom, a cap supporting a seal removably secured to the lower portion of said tube, a sleeve having openings surrounding the lower portion of said tube and out of contact therewith, a casing having a head containing a longitudinal opening and surrounding the upper portion of said tube and projecting over the lower portion thereof, and out of contact with the side wall of said tube, current-conducting means leading into said casing and encircling said drum, and an asbestos covering between said casing and said drum so encircled.

7. In an electric sealing device the combination of a tube having a lower portion and a contracted upper portion having a stop at its upper end and extending laterally therefrom, a cap supporting a seal removably secured to the lower portion of said tube, a sleeve out of contact with said tube and having openings surrounding the lower portion of said tube; a casing having a head containing a longitudinal opening and surrounding the upper portion of said tube and projecting over the lower portion thereof, and having a perforated air chamber adjacent to its side wall, and having also a transverse slot penetrated by a screw, a drum in said casing, current conducting means leading into said casing and encircling said drum, and an asbestos covering between said casing and drum so encircled. In testimony whereof I affix my signature, in presence of two witnesses.

JOHANN G. WALLMANN.

Witnesses:
R. J. CAVASSO,
M. CAVASSO.