

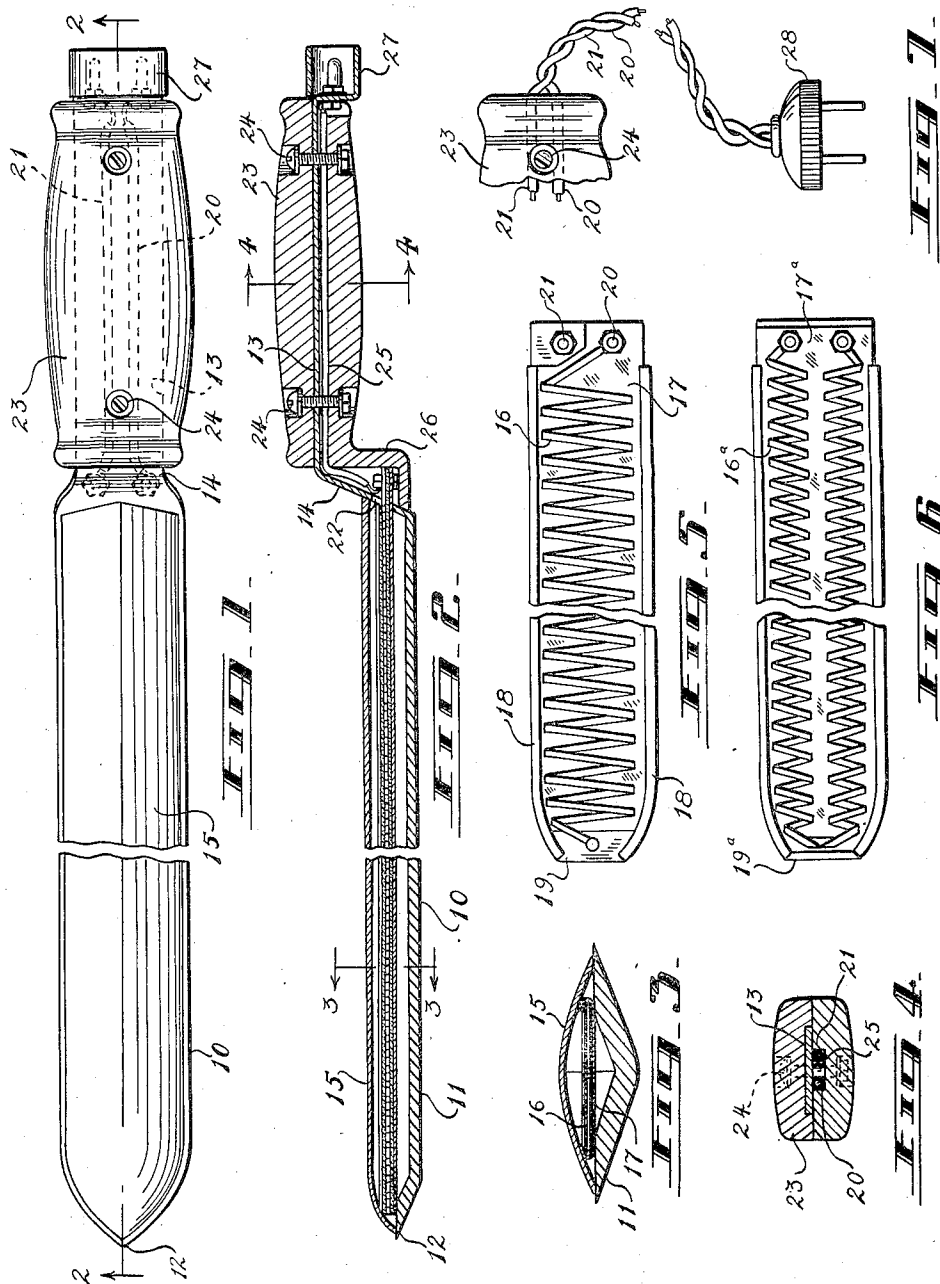
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HONEY UNCAPPING KNIFE

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HONEY UNCAPPING KNIFE

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5 Claims. (Cl. 219—21)

This present invention relates to improvements in a honey uncapping knife and appertains particularly to a heated device for this purpose that is light, handy and convenient.

5 An object of the invention is to provide a honey uncapping knife heated by a resistance element in an electric circuit so that the same is kept warm without requiring attention by the operator or offering delay, obstruction or hindrance to his work.

10 A further object of the invention is to provide an electrically heated honey uncapping knife whose element is removably housed within the blade and whose lead wires extend out through the end of the handle.

15 A further object of the invention is to provide an electrically heated honey uncapping knife of the nature and for the purpose set forth that is characterized by structural simplicity, durability, efficiency and low cost of production whereby the same is rendered commercially desirable.

20 To the accomplishment of these and related objects as shall become apparent as the description proceeds, the invention resides in the construction, combination and arrangement of parts as shall be hereinafter more fully described, illustrated in the accompanying drawing, and pointed out in the claims hereunto appended.

25 The invention will be best understood and can be more clearly described when reference is had to the drawing forming a part of this disclosure wherein like characters indicate like parts throughout the several views.

In the drawing:—

30 Figure 1 is a plan view of the knife;

Figure 2 is a vertical longitudinal section thereof as taken along the line 2—2 of Figure 1;

Figure 3 is a transverse vertical section there-through, as taken on the line 3—3 of Figure 2, looking in the direction indicated by the arrows;

40 Figure 4 is a transverse vertical section through the handle as taken on the line 4—4 of Figure 2, looking in the direction indicated by the arrows;

Figures 5 and 6 are plan views of alternative forms of resistance heating elements; and

45 Figure 7 is a detail plan of a slightly modified form of handle end with the extension cord extending therefrom.

50 The knife comprises a blade 10, sharpened along both edges with a longitudinal trough 11 that is substantially V-shaped in cross section running the length thereof and rounded up and pointed at its outer end 12. The handle or inner end 13 is parallel with but upwardly offset from the blade by an inclined intermediate portion 14.

Encasing the trough of the blade 10 is a raised arch shield or cover 15 rounding up from the pointed outer end 12 and joining the inclined offset portion 14. This cover 15 is soldered to the knife blade 10 around its entire periphery.

5 For the heating element, a resistance wire 16 is wrapped in a mica or other insulating jacket 17 whose opposite longitudinal edges are compressed and held by inturned flanges 18 of a reinforcing base plate 19. In the element shown in Figure 10 5, the far end of the resistance wire grounds to the base plate 19 and the two lead wires 20 and 21 at the inner end connect one to the inner end of the resistance wire 16 and one to the base plate 19 respectively. In Figure 6, the resistance wire 15 16a returns on itself so that the lead wires both connect to the spaced ends of the resistance element at the inner end: The mica jacket 17a and marginally flanged base plate 19a being similar to those already described.

20 The angular offsetting portion 14 of the knife 10 is horizontally slotted as at 22 just above the blade to accommodate one of these heating elements that is removably inserted therethrough, the flanged edges of the base plate 19 or 19a 25 frictionally engaging tightly against opposite sides of the knife trough 11 at the junction thereof with the cover 15. The heating element preferably extends the entire length of the knife blade 10 with only the lead wire connections exposed 30 exterior of the slot 22.

35 The handle 23 is formed in two vertically separable halves that engage opposite upper and lower faces of the offset handle end 13 of the knife. These are held tightly together by longitudinally spaced countersunk vertical fastening means such as the conventional nuts and bolts 24, as shown; that extend through registering perforations in the handle halves and the handle end 13 of the knife. Along its upper side, the under 40 half of the handle 23 has a central longitudinal groove 25 in which the lead wires 20 and 21 are carried and also includes a depending lip 26 at its forward end that follows down the offset portion 14 and covers the rear protruding end of 45 the heating element, being similarly grooved and suitably recessed to accommodate the same. The rear or free end of the handle 23, in Figures 1 and 2, is shown provided with a two prong plug receiving socket 27 formed integral with the 50 handle end 13 of the knife 10. In the modified form, shown in Figure 7, the two lead wires 20 and 21 just extend through the handle 23 and are terminally provided with the male part of a two piece extension cord connection 28.

In use, this knife is easily operated in the ordinary way. The heating element is connected up in a circuit with either a battery or the usual electric source where such is available, a proper strength resistance element being employed but since they are interchangeable, the structure of the knife apart from the element is not varied in any way. The extension cord may extend directly outwards from the handle as shown in Figure 7, or plug therein as illustrated in Figures 1 and 2. In either case the cord will not interfere in any way with the easy operation of the knife and since it is kept heated without any attention from the operator and its heating occasions no inconvenience, more and better work can be accomplished.

From the foregoing description taken in connection with the accompanying drawing, it will be manifest that a honey uncapping knife is provided that will fulfill all the necessary requirements of such a device but as many changes could be made in the above description and many apparently widely different embodiments of my invention may be constructed within the scope of the appended claims without departing from the spirit or scope thereof, it is intended that all matters contained in the said accompanying specification and drawing shall be interpreted as illustrative and not in a limitative or restrictive sense.

Having thus described the invention, what is claimed as new is:—

1. A honey uncapping knife comprising a hollow blade with an integral offset handle portion, a slot opening into the interior of said hollow blade through such intermediate offset and an electric element insertable in said hollow blade through said slot.

2. A honey uncapping knife comprising a blade formed with a longitudinal trough and an integral handle end offset upwardly therefrom, a horizontal slot in the offsetting portion between said blade and handle end just above the blade, an encased electric heating element insertable in said trough through said slot and a removable handle for said handle end adapted to cover said slot and secure said heating element against displacement.

3. A honey uncapping knife comprising a blade formed with a longitudinal trough and an integral handle end offset upwardly therefrom, a horizontal slot in the offsetting portion between said blade and handle end just above the blade, an encased electric heating element insertable in said trough through said slot, a two piece separable handle engaging the upper and lower faces of said integral handle end, a depending lip on the forward end of the lower of said handle pieces adapted to cover said slot and a lead wire accommodating groove along the upper side of said lower handle piece and down the depending lip thereof.

4. A honey uncapping knife comprising a blade formed with a longitudinal trough and an integral handle end offset upwardly therefrom, a horizontal slot in the offsetting portion between said blade and handle end just above the blade, an encased electric heating element insertable in said trough through said slot, a two piece separable handle engaging the upper and lower faces of said integral handle end, a recessed depending lip on the forward end of the lower of said handle pieces adapted to cover said slot and a lead wire accommodating groove along the upper side of said lower handle piece meeting said recessed depending lip.

5. A honey uncapping knife comprising a blade formed with a longitudinal trough and an integral handle end offset upwardly therefrom, a horizontal slot in the offsetting portion between said blade and handle end just above the blade, an encased electric heating element insertable in said trough through said slot, with only the end carrying the lead wire connection projecting, a two piece separable handle engaging the upper and lower faces of said integral handle end, a recessed depending lip on the forward end of the lower of said handle pieces conforming on its forward face with the rear side of the offsetting portion of said blade and adapted to enclose the projecting end of said heating element, and a lead wire accommodating groove along the upper side of the lower handle piece meeting said recessed depending lip.

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