March 15, 1932. G. S. PHILLIPS ET AL 1,849,687

DOCKING DEVICE

Filed March 18, 1930

Fig. 1.

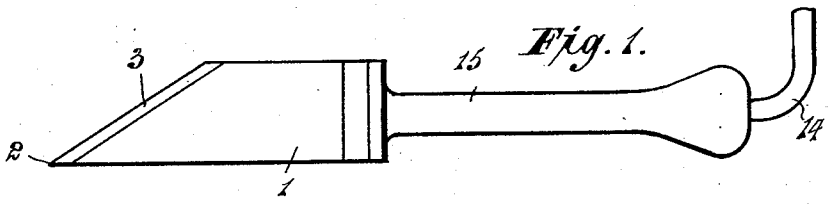
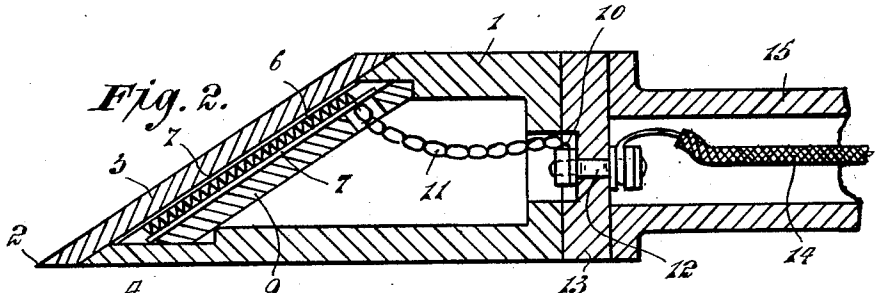


Fig. 2.



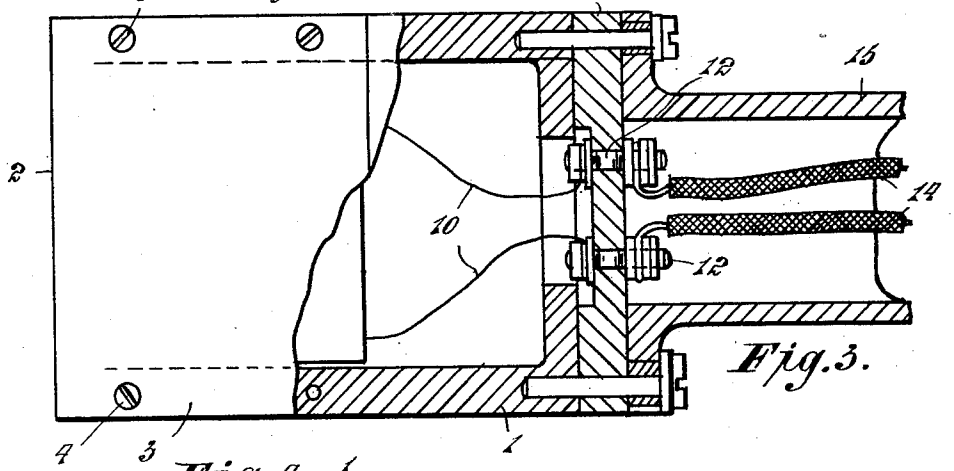


Fig. 3.

Fig. 4.

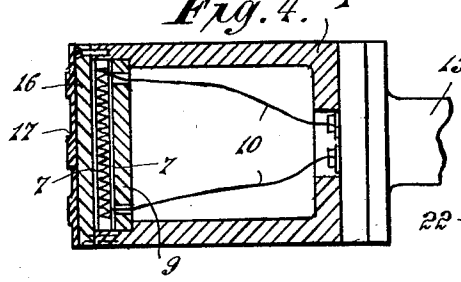
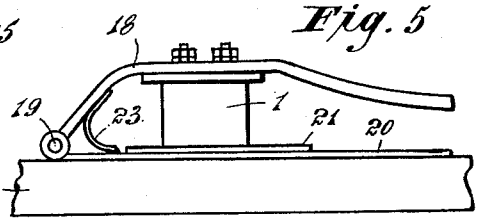


Fig. 5



G. S. Phillips
M. J. Jackson
INVENTORS.

By: Marks & Clark
Attys.

Patented Mar. 15, 1932

1,849,687

UNITED STATES PATENT OFFICE

GEORGE SAMUEL PHILLIPS, OF KAITOKE, AND MALCOLM JOHN JACKSON, OF GREYTOWN, NEW ZEALAND

DOCKING DEVICE

Application filed March 18, 1930, Serial No. 436,881, and in New Zealand January 16, 1930.

This invention relates to docking devices which also act as searing irons and which are chiefly employed for severing the tails of lambs.

The object of the present invention is to provide the required heat to the device by means of an electric current from a suitable source, such as a battery or the like.

According to the present invention, a body portion is formed having a cutting edge and searing surfaces and within this body a heating element is placed so as to carry the heat as near as possible to the cutting edge and searing surfaces, the element being insulated from the metal and having conductors which lead to a suitable plug for connection to an electrical supply.

The invention will be described with the aid of the accompanying drawings, wherein:—

Figure 1 is a side view of the device.

Figure 2 is a cross section through the cutting and searing end of the device.

Figure 3 is a plan partly in section.

Figure 4 is a cross section showing brands fitted to the end.

Figure 5 is a view of an alternative method of mounting the device.

Referring to the drawings, the body portion 1, hereinafter called the searing iron, has a cutting edge 2 formed by a cutting plate 3 placed on the sloping end of the iron. The body portion is formed hollow and closed by the cutting plate 3 which is secured by screws 4. The interior of the iron receives the heating element 5 which may be a usual resistance 6 and insulated from the metal of the iron by insulation, such as mica plates 7, the heating wires being wound upon a mica frame in a well known manner. The element is placed upon a plate 9 which may be integral with the body or removable therefrom and the cutting plate placed thereon, thereby retaining the element close against the surface to be heated. The ends 10 of the resistance may be insulated with porcelain beads 11 and lead to terminals 12 carried by an insulation piece 13. To these terminals are connected the conductors 14 which may lead through the hollow handle 15 to a suitable electrical connection. If desired, a switch of usual construction may be placed above the handle for switching on or off the current while the device is being held.

In Figure 4, the iron is shown with a base plate 16, on which a plate 17 may have letters or devices secured thereto for the purpose of branding animals.

In Figure 5, is shown an alternative method of mounting the iron upon a handle. In this case, the body 1 is attached to a horizontally disposed handle 18 such handle being pivoted at 19 to a bar 20 carrying a plate 21 against which the searing iron closes. The bar may have holes in order that it may be nailed or screwed to a simple frame, block or the like, as 22, while a spring 23 between the two hinged parts normally retains such parts away from each other, the iron in this case having an element placed therein in a manner as described in Figures 2 and 3.

What we claim is:—

A device of the class described comprising a hollow body having a beveled open end, a cutting plate closing the open end, a plate within the body spaced from the cutting plate, a heating element in the space between said plates, a handle for the body, a plate of insulating material, securing devices for holding the insulating plate clamped between the body and handle, electrical conductors leading to the insulating plate and in circuit with conduits leading therefrom to the heating element.

In testimony whereof, we have signed our names to this specification.

GEORGE SAMUEL PHILLIPS.
MALCOLM JOHN JACKSON.