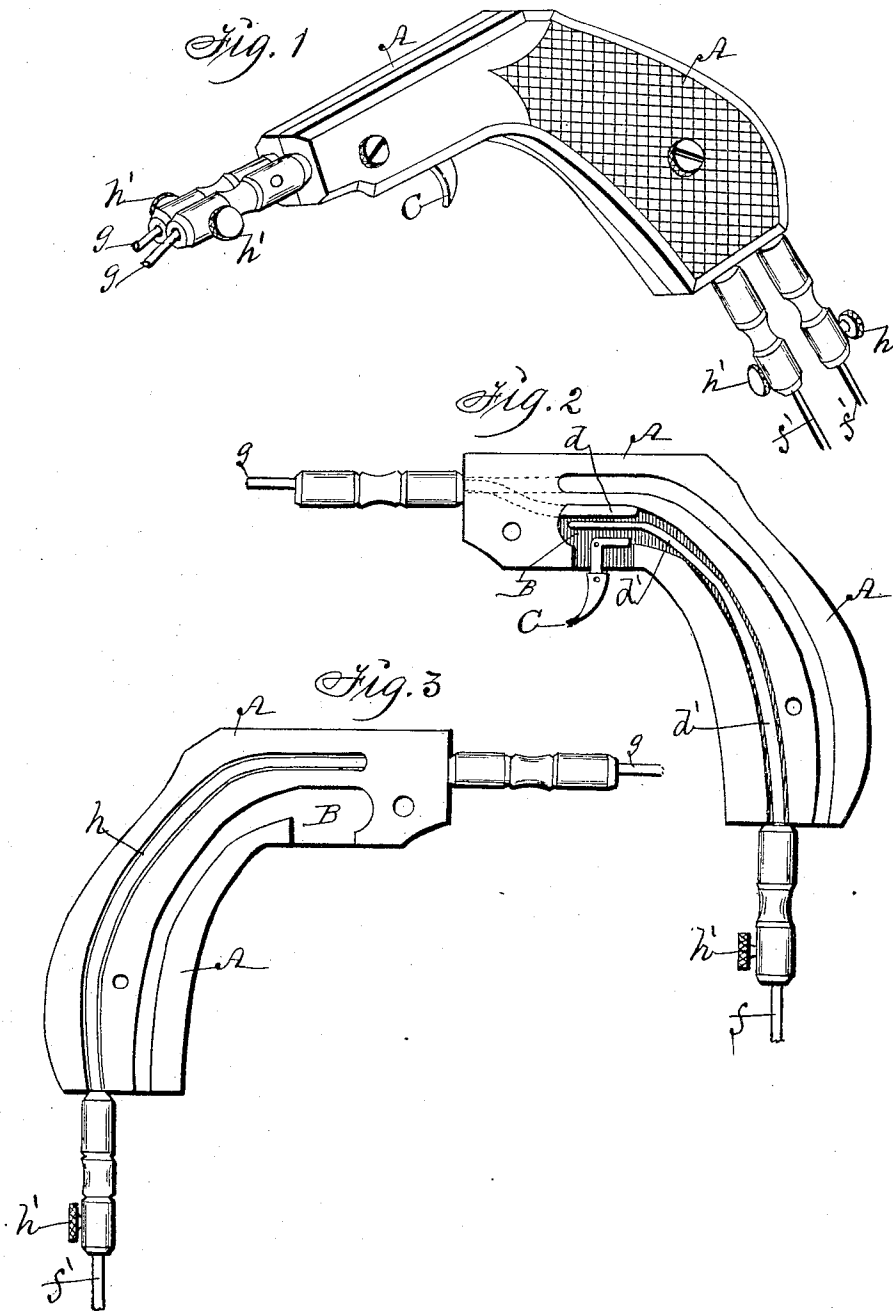


W. B. BATCHELLER.  
ELECTRIC INSTRUMENT FOR CAUTERY.

(Application filed Mar. 8, 1902.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

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## ELECTRIC INSTRUMENT FOR CAUTERY.

SPECIFICATION forming part of Letters Patent No. 703,369, dated July 1, 1902.

Application filed March 8, 1902. Serial No. 97,326. (No model.)

*To all whom it may concern:*

Be it known that I, WALTER B. BATCHELLER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Electric Instrument for Cauterizing, of which the following is a specification.

My object is to facilitate the use of an electric current for cauterizing membrane in the nostrils, the mouth, and throat, arteries in a wound, or in any cavity in a person by providing an instrument that can be held in a person's hand and the current opened and closed at pleasure by the forefinger of the same hand, while at the same time the instrument and hand will not prevent the operator from seeing and examining the part to be cauterized and the application and effect of the cauterizing-current applied to the patient.

My invention consists in the construction, arrangement, and combination of parts, as hereinafter set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the instrument adapted to be connected with a battery and also adapted for holding and manipulating advantageously a searing-wire and opening and closing and controlling the electric current. Fig. 2 is a longitudinal sectional view showing conductors embedded in one of the separable parts of the handle and the form of the circuit-closer. Fig. 3 is a view of the other portion of the handle, showing one of the conductor-wires in position for producing a circuit.

The letter A designates an elbow-shaped handle composed of two mating parts detachably connected. One end portion of the handle is straight on its top surface, so a person can hold it in the line of vision and sight over it, as required, to look into a person's mouth or other cavity when using the instrument. They are preferably made of hard rubber and securely cover and insulate the electric conductor embedded therein and fastened together by screws. The lower portion of the handle is adapted in shape and size to be conveniently grasped in a person's hand, and the upper portion has a straight top surface over

which a person can sight when operating the instrument. A cavity B in the under side of the upper portion is adapted to serve as a chamber in which ends of two pieces of the conductor will normally remain separated. A trigger C is pivoted in the cavity and adapted in form for closing the circuit. One of the conductor-wires *d*, laid in a groove in the handle, extends into the top portion of the cavity and the other separate piece *d'* into the lower portion, as shown in Fig. 2, in such a manner that their ends will be in parallel position and will not contact with each other. A conductor thus made of two pieces of wire is adapted to be detachably connected with a wire *f*, extended through a metal tube fixed to the part A and to a battery from the lower end of the handle and also adapted to be detachably connected with one end of a cauterizing-wire *g*, that extends through a metal tube at the upper end of the handle. A second wire conductor *h* extends from one end of the handle to the other and is adapted to be connected with a wire *f'*, extended through a metal tube and to a battery and the other end of the cauterizing-wire *g*, that extends into a tube, as required, to establish a circuit. The conductors are thus embedded, concealed, and protected in the handle, which serves as an armature for the conductors as well as a means for manipulating the cauterizing-wire.

Binding-screws *h'* for connecting and fastening the conductor-wires embedded in the handle with the cauterizing-wire *g* are seated in the metal tube at the upper end of the handle, and corresponding screws are seated in the metal tubes at the lower end of the handle, as required, for detachably connecting a cauterizing-wire with the instrument and the instrument with a battery.

It is obvious that when a person has hold of the lower portion of the handle he can readily close the circuit instantly by finger-pressure upon the trigger and open the circuit instantly by relaxing such pressure.

Having thus described the purpose of my invention and the construction, arrangement, and combination of the different parts, its practical operation and utility will be readily understood by persons familiar with the art to which it appertains.

What I claim as new, and desire to secure by Letters Patent, is—

1. In an instrument for cauterizing, an elbow-shaped handle straight on the top of one  
5 end portion and the inner end and under side of the straight portion having a chamber and the ends of two pieces of a wire conductor extended into said chamber and over each other  
10 a trigger pivoted to the handle to extend into the chamber for pressing one of the ends of the wire into contact with the end of the other wire, in the manner set forth for the purposes stated.

2. An electric cauterizing instrument comprising an elbow-shaped handle having a  
15 straight top surface at one end portion, provided with a cavity in the under side and in-

ner end of the straight portion, a trigger pivoted in the cavity, two pieces of a wire conductor embedded in the handle and extended 20 into the cavity, a third piece of wire conductor embedded in the handle to extend from one end to the other and binding-screws seated at the upper end of the handle for connecting the ends of a cauterizing-wire with 25 the wires embedded in the handle and binding-screws at the lower end of the handle for connecting wires extending from a battery, arranged and combined to operate in the manner set forth, for the purposes stated.

WALTER B. BATCHELLER.

Witnesses:

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