

J. A. CHAPMAN.
ELECTRICALLY HEATED INSTRUMENT.
APPLICATION FILED MAY 6, 1913.

1,083,386.

Patented Jan. 6, 1914.

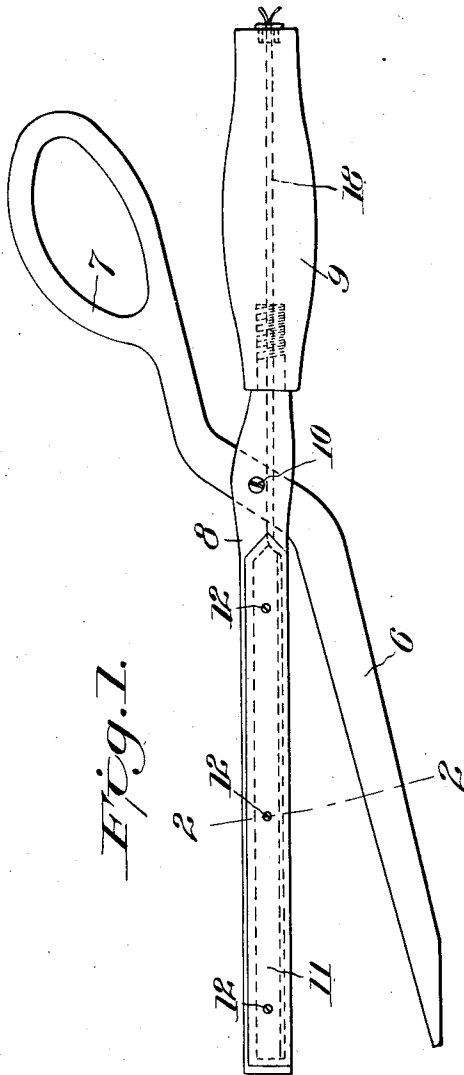


Fig. 1.

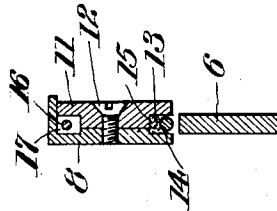


Fig. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

JOSEPH A. CHAPMAN, OF FORT WORTH, TEXAS.

ELECTRICALLY-HEATED INSTRUMENT.

1,083,386.

Specification of Letters Patent.

Patented Jan. 6, 1914.

Application filed May 6, 1913. Serial No. 765,912.

To all whom it may concern:

Be it known that I, JOSEPH A. CHAPMAN, a citizen of the United States, residing at Fort Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Electrically-Heated Instruments, of which the following is a specification.

This invention relates to an electrically heated instrument or tool of the scissors or pivoted handle type, and it is adapted to be used for cutting or singeing hair or for surgical purposes as a cautery.

The instrument comprises two pivoted members one of which carries an electrically heated wire forming one edge and the other of which forms a blade which presses the material or article to be cut against the wire for the purpose of dividing or severing.

When used as a hair cutter the blade will press the hair into contact with the hot wire for cutting and singeing the same.

For surgical uses the instrument will at one stroke sever and cauterize ligaments, blood vessels and the like at a single operation, the two operations of cutting and cauterizing being performed at once.

The instrument is capable of other analogous uses.

In the accompanying drawings—Figure 1 is a plan view of the instrument. Fig. 2 is a section on the line 2—2 of Fig. 1.

Referring specifically to the drawings, 6 indicates the blade or jaw member provided with a handle 7, and 8 the other member being pivoted together at 10. The member 8 is preferably recessed to receive a strip or plate 11 along the side thereof, the plate being fastened by screws 12. The edge of the member 8 has a groove 13, with a high resistance wire 14 exposed along the edge, said wire being set in a backing of asbestos 15 located in the groove, and the return wire 16 extends through a closed groove 17 near the back of the member, the two wires extending out through a bore 18 in the

handle 9 by which connection may be made to any source of current.

In the use of the device the material or article to be cut or severed is forced into contact with the hot wire 14 by the pressure of the blade or jaw 6, whereby the material is severed and singed or cauterized at one operation, the instrument being capable of quick and easy manipulation like a pair of scissors. The pressure applied to the material between the two members insures the quick and complete severance of the material or article to be cut and prevents any slip or misplacement during the act of cutting.

The instrument will be found especially efficient for surgical operations, in which quickness is desirable, as the cutting and cauterizing will be done at once, instead of by separate operations as heretofore.

What I claim as new is:

1. A cutting instrument comprising two members movable to and from each other, one member having an electrically-heated cutting edge extending along the same and the other member being adapted to press the material to be cut against said edge.

2. A cutting instrument of the scissors type, comprising two pivoted members, one of which has an electrically heated wire extending and exposed along the edge thereof, and the other of which is adapted to press the material to be cut against said wire.

3. A cutting instrument of the scissors type, comprising two pivoted members, one of which has a groove in the edge thereof and an electrically-heated wire in said groove and exposed on the side toward the other member, whereby the latter may press the material to be cut into contact with said wire.

In testimony whereof, I affix my signature in presence of two witnesses.

JOSEPH A. CHAPMAN.

Witnesses:

C. A. COOPER,
O. P. HANEY.