

UNITED STATES PATENT OFFICE.

GEORGE WYATT, OF BROOKLYN, NEW YORK.

PLIERS.

SPECIFICATION forming part of Letters Patent No. 444,035, dated January 6, 1891.

Application filed September 29, 1890. Serial No. 366,445. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WYATT, of Brooklyn, New York, have invented an Improvement in Pliers, of which the following is a specification.

This invention relates to pliers that are provided with insulated handles and that are more particularly designed for cutting electric wires.

The invention consists in the various features of improvement more fully pointed out in the claims.

In the accompanying drawings, Figure 1 is a side view, partly in section, of my improved pliers. Fig. 2 is a cross-section on line $x x$, Fig. 1.

The letters $a a$ represent the jaws of a pair of pliers. b is the pivot, and $c c$ are the handles in one piece with the jaws, all as usual. The handles c are covered by sleeves d , made of suitable insulating material. I prefer to make the sleeves d of gutta-percha with an enamel lining; but any other non-conductor of electricity may be used. The sleeves d should be closed at their outer ends, as at d' , so as to completely embrace the ends of the handles c . At their inner ends the sleeves d are preferably made with an inclined edge d^2 ,

so that those parts c' of the handles c that are located directly back of the pivot are left exposed on their contiguous faces. This permits the pliers to close freely without unnecessarily reducing the thickness of the handles.

It will be seen that my improved pliers are completely insulated where apt to be grasped by the hand, and that thus when cutting live wires the shock will not be transmitted to the operator.

What I claim is—

1. As a new article of manufacture, pliers the handles of which are covered by non-conducting sleeves, substantially as specified.

2. A pair of pliers provided with non-conducting sleeves d , surrounding the handles, said sleeves being closed at their outer ends d' , so as to embrace the ends of the handles, substantially as specified.

3. A pair of pliers provided with non-conducting sleeves d , surrounding the handles, said sleeves being closed at their outer ends d' and provided with inclined inner edges d^2 , substantially as specified.

GEORGE WYATT.

Witnesses:

F. V. BRIESEN,
A. JONGHMANS.