

No. 824,351.

PATENTED JUNE 26, 1906.

W. A. FRICKE.
TELEPHONE SWITCH HOOK.
APPLICATION FILED NOV. 6, 1905.

Fig. 1.

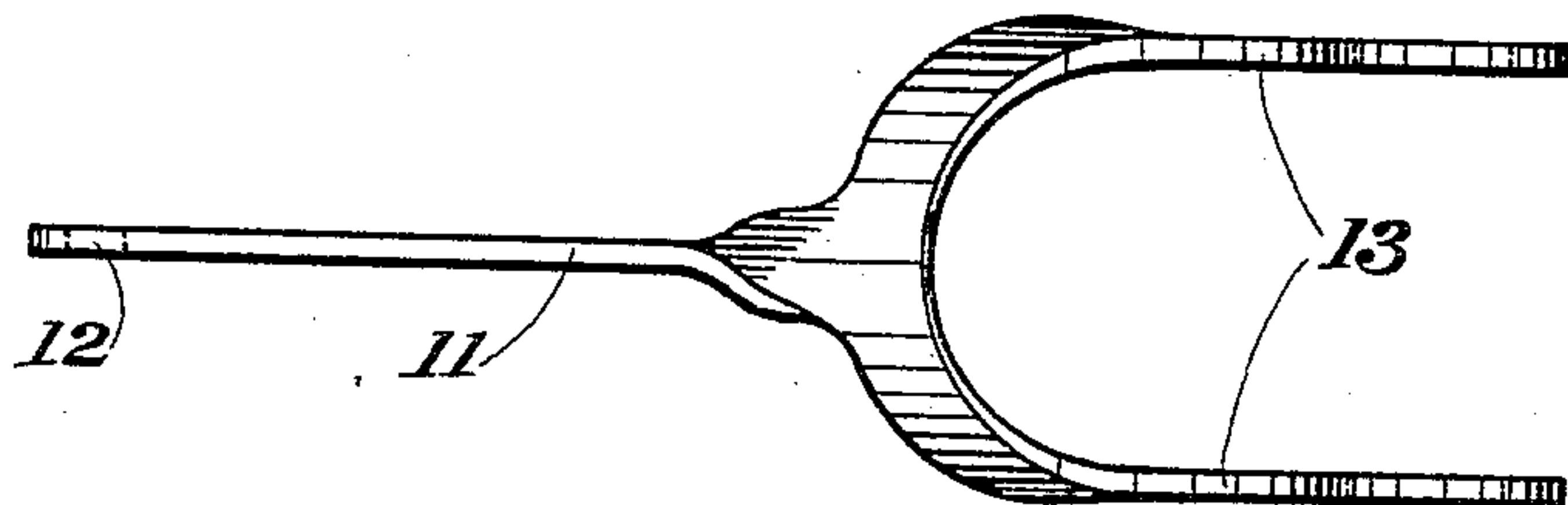


Fig. 2.

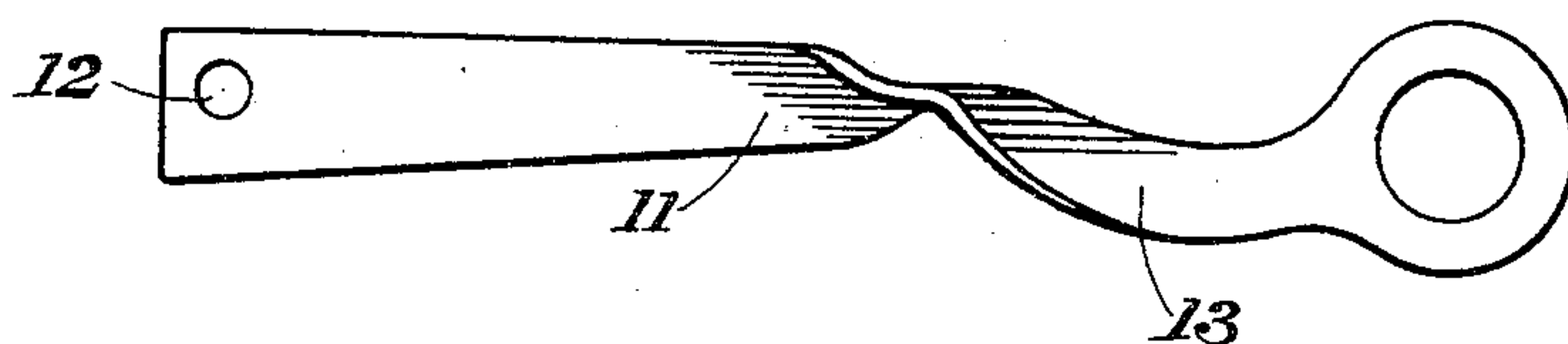


Fig. 3.

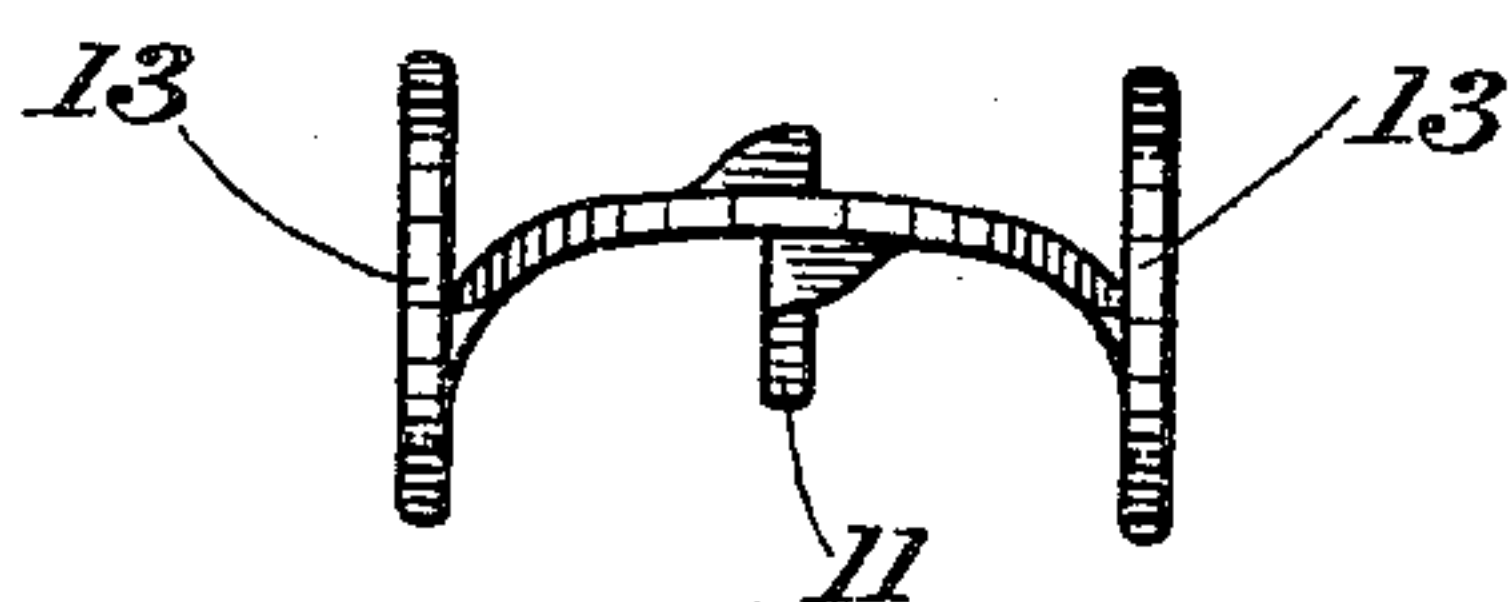
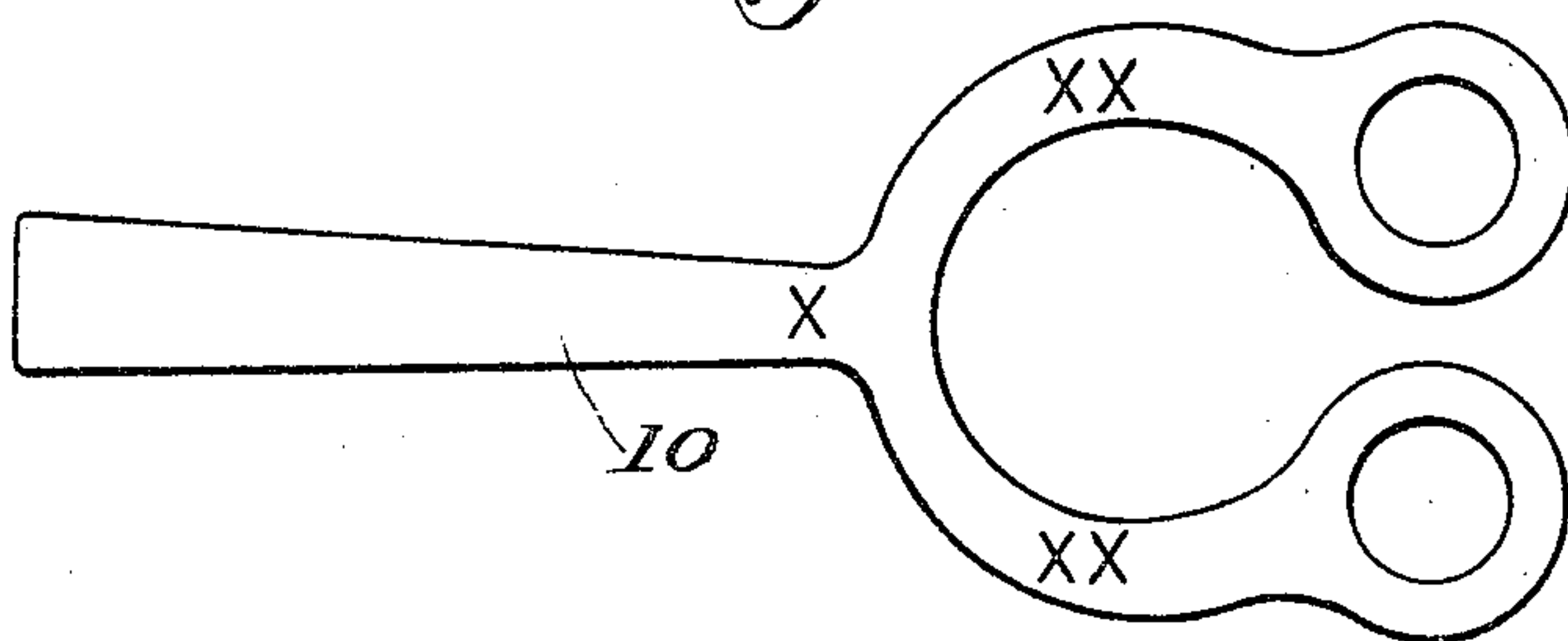


Fig. 4.



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UNITED STATES PATENT OFFICE.

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TELEPHONE SWITCH-HOOK.

No. 824,351.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed November 6, 1905. Serial No. 285,961.

To all whom it may concern:

Be it known that I, WILLIAM A. FRICKE, a citizen of the United States of America, and a resident of Chicago, county of Cook, in the State of Illinois, have invented a new and useful Improvement in Telephone Switch-Hooks, of which the following is a specification.

My invention lies in the improved type of telephone switch-hook shown in the drawings accompanying, the advantages of this type of switch-hook being found in the cheapness and ease of manufacture.

My switch-hook is adaptable for use with any type of switch.

It is essential in the present development of the art of telephony that a switch-hook be pivoted at one point and that at one end it is provided with means for receiving and retaining the telephone-receiver in such manner that the weight of the receiver thus held will tend to receive the switch-hook upon its pivoted point. The pivot involved may or may not be a part of the switch-hook itself, and the associated springs, electrical contacts, and associated apparatus may be all parts of the electrical switch operated by the switch-hook and not a part of the switch-hook itself. Thus we may differentiate between the hook-switch and the switch-hook, reducing the term "switch-hook" to its simplest interpretation, whereby it applies only to that piece of metal upon which the telephone-receiver is hung, consisting usually of an arm adapted at one end to be pivoted and adapted at the other end to receive and retain a telephone-receiver.

Such a switch-hook is shown in the several figures accompanying this specification, of which—

Figure 1 shows a top view of the complete switch-hook ready for assembly to operate a hook-switch in a complete telephone equipment. Fig. 2 shows a side view of the same. Fig. 3 shows the end view of the completed hook-switch, and Fig. 4 shows the unformed blank of sheet metal from which the switch-hook of Figs. 1 and 2 is made.

The blank 10 of suitable design for punching easily and economically from sheet metal is bent or twisted through an angle of ninety degrees at the point x and also at the points $x x$ and $x x$, thus producing without further

operations the completed switch-hook of Figs. 1, 2, and 3.

In the completed switch-hook of Figs. 1, 2, and 3 the arm 11 is adapted at one end to be pivoted by the opening 12, through which the supporting-pivot may be passed, and is adapted at the other end to receive and retain a telephone-receiver by the extending parallel branches 13, which are of such dimensions and conformation as to accomplish the purpose indicated. The switch-hook thus pivoted may act upon the hook-switch and be acted upon by the hook-switch and associated springs in any of the practically infinite number of methods in present use and possible of design for any of the many types of switch-hook already known.

I do not wish to limit myself in this application to the particular form of blank or complete switch-hook described herein, and shown in the accompanying drawings. The well-known annular formation of the extreme ends of the branches 13 forms no essential part of my invention and may be departed from at will.

The end of the arm containing the hole 12 is particularly susceptible of modification to provide projections, shoulders, recesses, &c., to engage hook-switch details and even additional holes for similar purposes, all of which modifications are clearly within the scope of my invention, since I have indicated that my switch-hook as shown may operate a hook-switch without any such modification of form from that shown being necessary to that end.

Having thus described my invention, what I claim as new, and wish to secure by United States Letters Patent, is—

1. As a part for the manufacture of telephone apparatus, a switch-hook formed of one piece of sheet metal cut to shape and bent into final form by twists of approximately ninety degrees each, substantially as described.

2. As a part for the manufacture of telephone apparatus, a switch-hook formed of one piece of sheet metal cut to shape and bent into final form by twists of approximately ninety degrees each, substantially as described.

3. As a part for the manufacture of tele-

phone apparatus, a switch-hook formed of one piece of sheet metal cut to shape and bent into final form by twists in the arm of the blank, and in the branches of the blank, substantially as described.

5 4. As a part for the manufacture of telephone apparatus, a switch-hook formed of one piece of sheet metal cut to shape and formed at one end into a hook by twisting or

bending separately the two branches of the form, substantially as described.

Signed by me at Chicago, county of Cook, and State of Illinois, in the presence of two witnesses.

WILLIAM A. FRICKE.

Witnesses:

SAMUEL G. McMEEN,
EVA A. GARLOCK.