

No. 881,853.

PATENTED MAR. 10, 1908.

J. T. GARDNER.
WIRE GRIP.

APPLICATION FILED SEPT. 17, 1907.

Fig. 1.

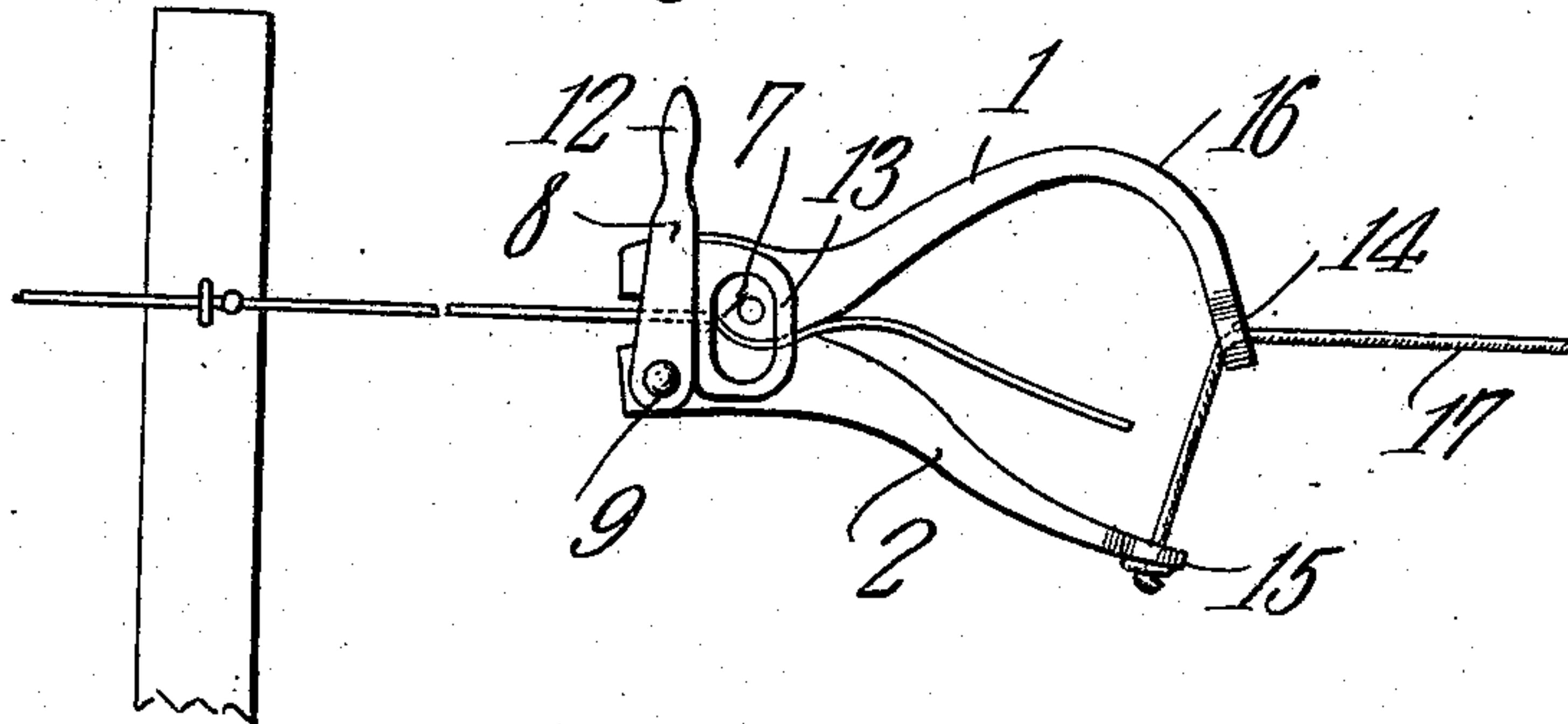
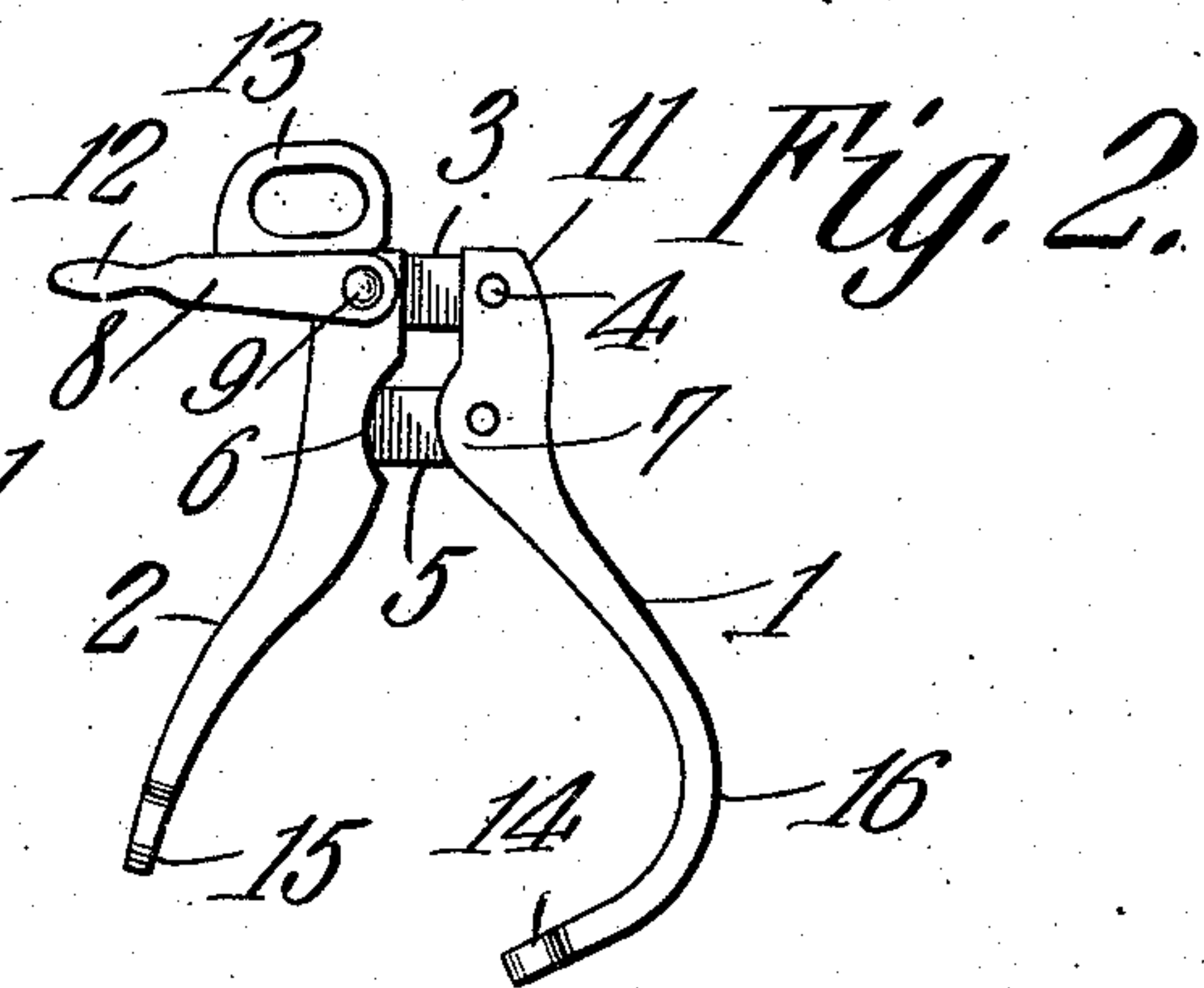
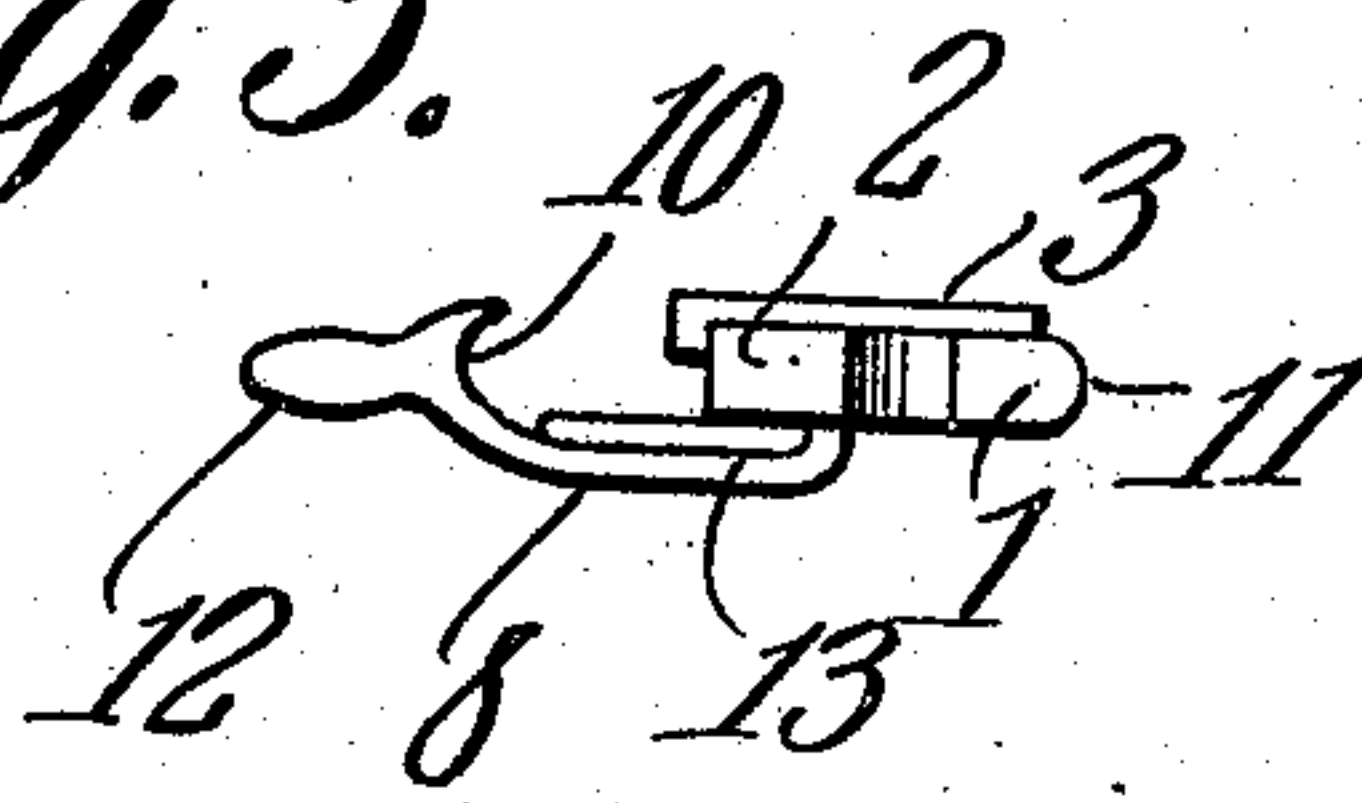


Fig. 3.



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Witnesses

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WIRE-GRIP.

No. 881,853.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed September 17, 1907. Serial No. 393,349.

To all whom it may concern:

Be it known that I, JOHN T. GARDNER, a citizen of the United States, residing at Buffalo, in the county of Dallas and State of Missouri, have invented a new and useful Wire-Grip, of which the following is a specification.

This invention has relation to devices for gripping wire and it consists in the novel construction and arrangement of its parts as hereinafter shown and described.

The object of the invention is to provide a wire grip especially adapted to be used in connection with a wire stretcher, wherein an adductor is employed for drawing the ends of clamping members together, between opposed surfaces of which, the wire is gripped. The grip may be employed with other devices or may be handled manually for stretching and positioning wire.

In the accompanying drawing:— Figure 1 is a side view of the grip applied to a piece of wire. Fig. 2 is a side view of the grip in open position and, Fig. 3 is an end view of the grip.

The gripping device shown in the present instance is composed of a pair of gripping members 1 and 2 connected at one end by a link 3 which, in the present instance, is rigidly attached to the member 1 and pivotally attached to the member 2 by means of a pivot pin 9, the members being provided with a guide 5 which is attached to one of them and has a sliding engagement with the other member to insure a relative pivotal movement in a given plane, and also serving as a closure adapted to engage the wire and thereby hold it in engagement with the gripping members. Adjacent to the pivotal connection of the members are provided a pair of coöperatively arranged clamping surfaces, those shown in the present instance being formed by a concavity 6 in one of the members and a correspondingly shaped convexity or projection 7 formed in the coöperating member, the axes of curvature being arranged parallel to the center of movement of the members, so that the wire engaged between these surfaces will assume a curved state in the direction of its length.

That side of the gripping members op-

posite to the guide 5 is provided with a guard for admitting wire between the gripping members and preventing its accidental disengagement before the gripping members are entirely closed. The guard shown in the present instance embodies a lever 8 pivotally attached to the members 2, at 9, and having an undercut shoulder 10 adapted to coöperate with the outer side 11 of the member 1 at a point adjacent to the pivot, a handle 12 being provided at the outer end of the lever whereby it may be operated. The wire is held in position between the gripping surfaces by means of a plate 13 which projects laterally from the lever and overlaps the members at points adjacent to the gripping surfaces thereof, the guard being closed preparatory to the stretching operation, and opened into the position shown in Fig. 3 in order to permit the wire to be inserted and removed.

The free ends of the gripping members are provided with eyes 14 and 15, the eye 14 of the gripping member 1 being carried by an offset arm 16, so that it will be centered substantially in line with the gripping surfaces. The gripping members, in the present instance, are operated by means of a flexible connector or adductor 17, one end of the latter being fastened to the eye 15 and passing loosely through the eye 14 and the coöperating member, a tension on the connector serving to draw it through the eye 14 and thereby cause a proximating movement of the gripping members.

Having described my invention what I claim as new and desire to secure by Letters-Patent is:—

1. A grip comprising a pair of pivotally connected members having gripping surfaces, a guide secured to one of the members and slidably engaging the other member and a guard arranged opposite to said guide and movable into and out of coöperative relation with the gripping members.

2. A grip comprising a pair of pivotally connected members having gripping surfaces, a guide fixed to one of the members and coöperating with the other member to prevent disarrangement of the article gripped with relation to the members and a guard

fitting on the opposite side of one of the gripping members and having a portion adapted to overlap the gripping surfaces of the members and provided with an undercut
5 shoulder adapted to cooperate with the other member.

In testimony that I claim the foregoing as

my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN T. GARDNER.

Witnesses:

O. H. SCOTT,
G. L. DAVIS.