

No. 824,556.

PATENTED JUNE 26, 1906.

I. B. LOWRY & F. L. ARTERS.

WIRE STRETCHER.

APPLICATION FILED DEC. 28, 1904.

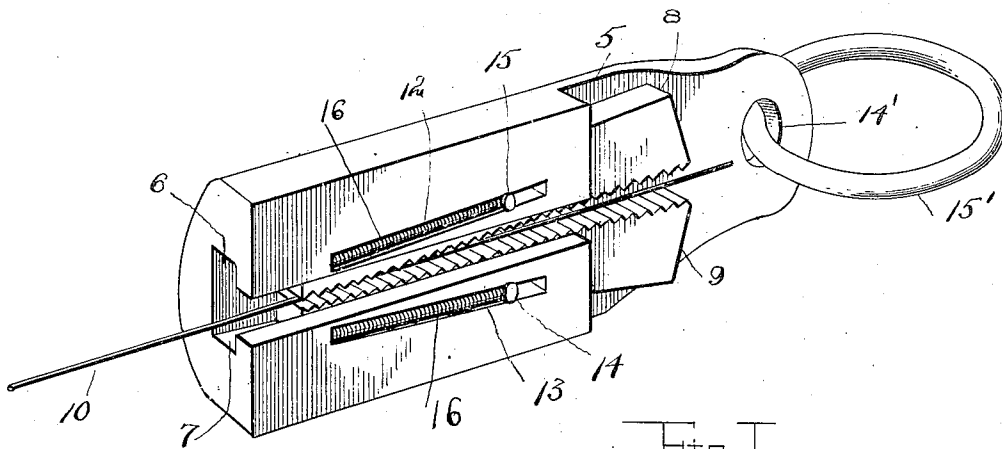


Fig. 1.

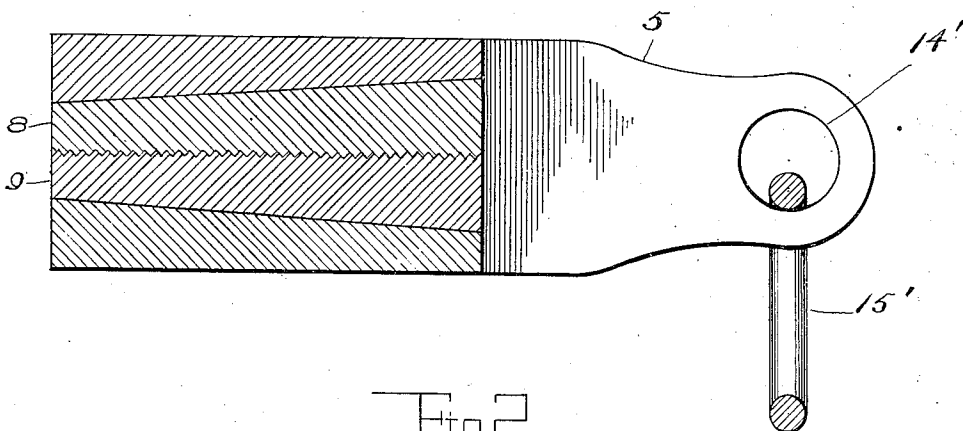


Fig. 2.

Witnesses  
J. C. Simpson  
H. M. Baldwin

Inventors  
Isaac B. Lowry  
Frank L. Arters  
By  
Charles Chandler  
Attorneys

# UNITED STATES PATENT OFFICE.

ISAAC B. LOWRY AND FRANK L. ARTERS, OF MONTPELIER, INDIANA.

## WIRE-STRETCHER.

No. 824,556.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed December 28, 1904. Serial No. 238,615.

To all whom it may concern:

Be it known that we, ISAAC B. LOWRY and FRANK L. ARTERS, citizens of the United States, residing at Montpelier, in the county of Blackford, State of Indiana, have invented certain new and useful Improvements in Wire-Stretchers; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to wire-grips, and has for its object to provide a cheap and simple construction which will comprise but few parts, which will tightly grip a wire with which it is engaged, and which may be easily and quickly engaged and disengaged. Other objects and advantages of the invention will be understood from the following description.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in both views, Figure 1 is a perspective view of a wire-grip embodying the present invention and engaged with a wire. Fig. 2 is a longitudinal section through the guides and gripping-jaws.

Referring now to the drawings, the present wire-grip comprises a plate or body portion 5, one face of which is flat, and from this flat face, at the upper and lower edges thereof, project guideways 6 and 7, which extend first outwardly at right angles to the face of the plate and then toward each other, the outwardly-projecting portions having their inner faces converged, while those portions extending toward each other are in a common plane parallel with the face of the plate 5, from which the guides project.

Between each of the guides and the face of the plate 5 is slidably mounted a gripping-jaw, (shown at 8 and 9.) Engaged in the slots 12 and 13 are springs 16, which have one of their ends engaged with one of the end walls of the slot and have their other ends engaged with the pins 14 and 15, the said springs serving to retract the said jaws after a slight forward movement of the grip, these gripping-jaws being tapered to correspond to the convergent faces of the guides, so that when the

jaws are moved in the direction of one end of the plate 5 they will be forced toward each other to grip the wire therebetween and when moved in the opposite direction they may be separated. The guides 6 and 7 are slotted, as shown at 12 and 13, the slots converging to correspond to the convergent faces of the guides, and in these slots lie pins or screws 14 and 15, respectively, which are engaged with the jaws and prevent the latter from moving longitudinally from beneath the guides. The guides are located at one end portion of the plate 5, and through the opposite end of the plate is a perforation 14', in which is engaged a ring 15' for attachment of any suitable means for moving the grip after it is engaged with the wire to stretch the latter.

The mutually-adjacent faces of the gripping-jaws are provided with teeth, as illustrated, to facilitate their gripping action.

What is claimed is—

1. A wire-grip comprising a plate provided with slots, jaws mounted upon said plate, pins carried by said jaws and engaged through said slots, and springs mounted in said slots in engagement with said pins for normally holding the said jaws out of engagement with each other.

2. A wire-grip comprising a plate having recessed guides formed thereon, one of the walls of each of said guides being provided with a longitudinal slot, the said slots being converged longitudinally toward each other and lying in the same plane as the adjacent wall of its respective recess, jaws mounted in said recessed guides, pins carried by said jaws and engaged through said slots, and springs engaged in said slots and in engagement with said pins for normally holding said jaws out of engagement with each other.

In testimony whereof we affix our signatures in presence of two witnesses.

ISAAC B. LOWRY.  
FRANK L. ARTERS.

Witnesses:

JOSEPH A. WILLSON,  
JAMES GOOLLERE.