

(No Model.)

H. D. TAYLOR.
PLIERS FOR APPLYING COUPLINGS OF WIRE.

No. 400,512.

Patented Apr. 2, 1889.

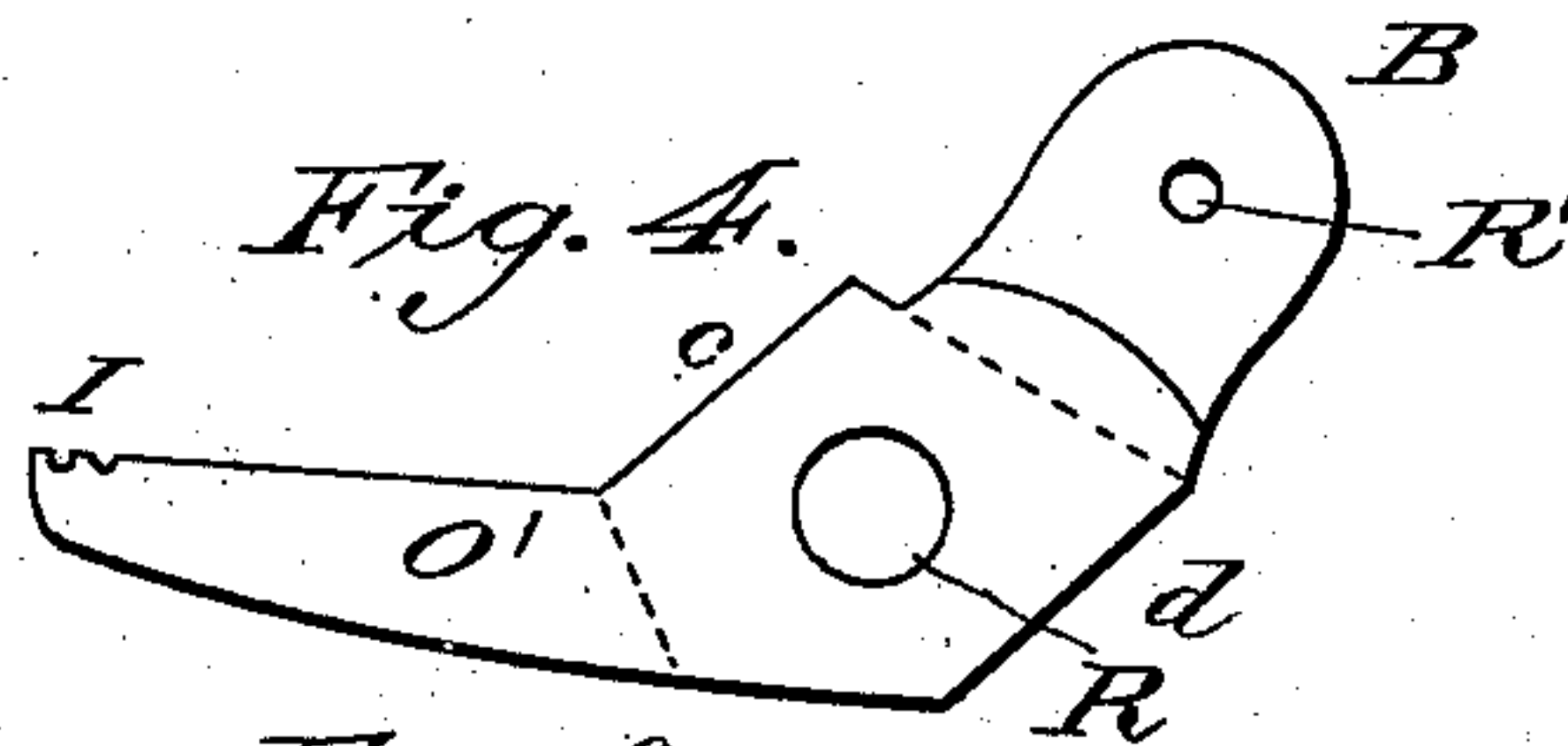
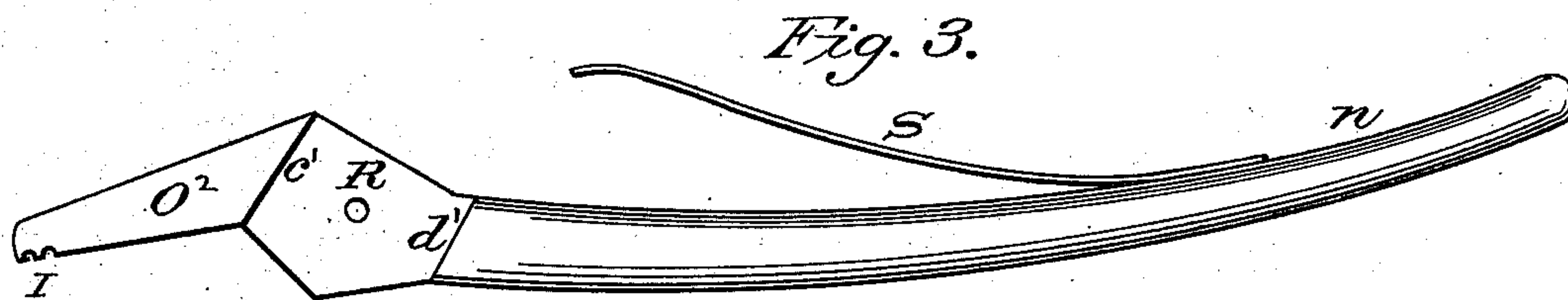
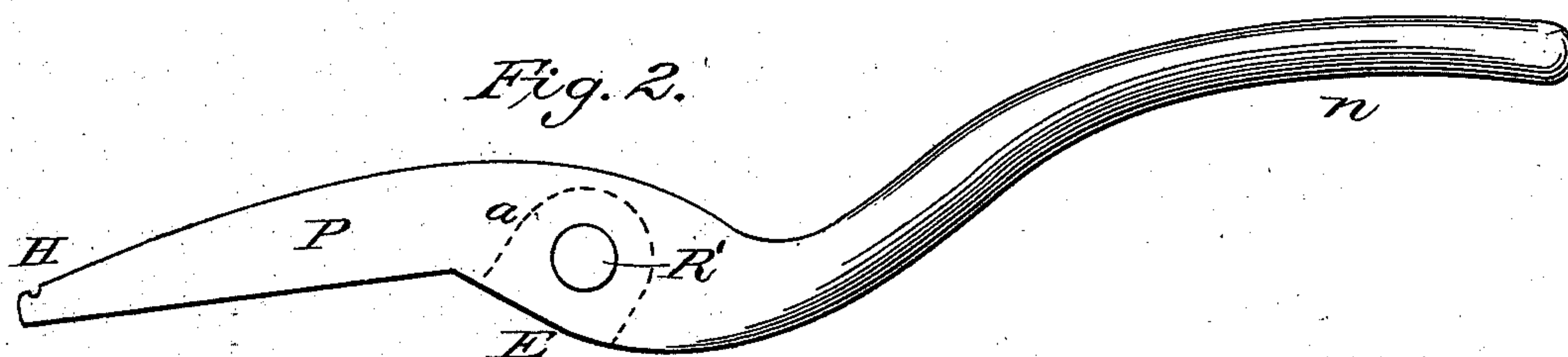
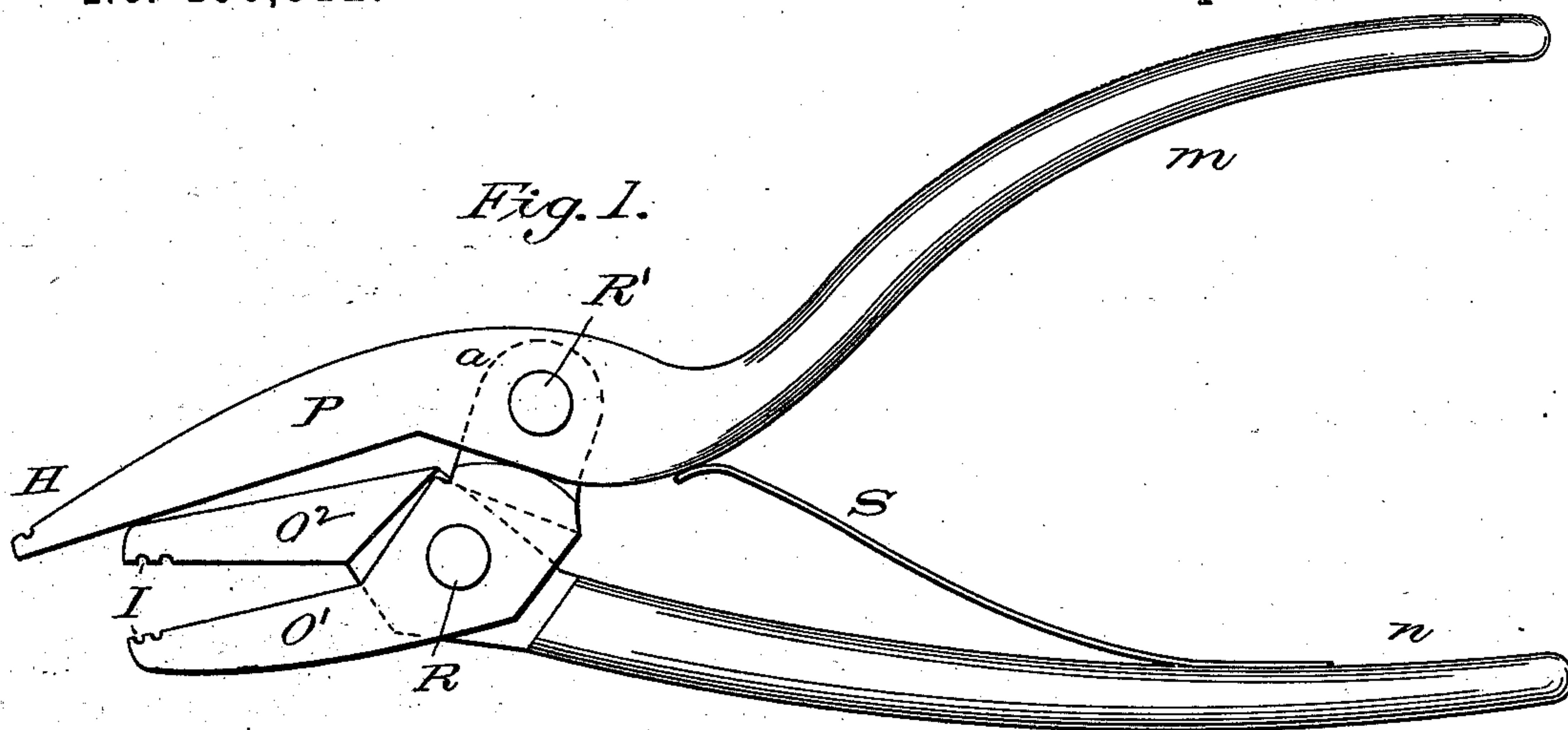


Fig. 5.

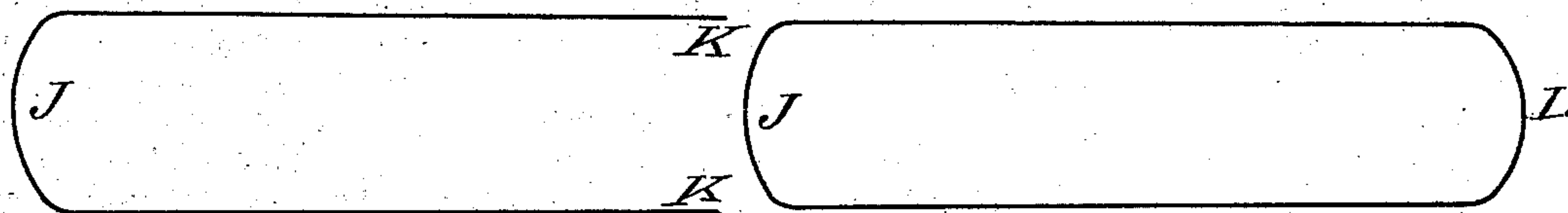


Fig. 6.

Witnesses:

Albert W. Boynton.
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UNITED STATES PATENT OFFICE.

HARVEY D. TAYLOR, OF KEESEVILLE, NEW YORK.

PLIERS FOR APPLYING COUPLINGS OF WIRE.

SPECIFICATION forming part of Letters Patent No. 400,512, dated April 2, 1889.

Application filed December 3, 1888. Serial No. 292,555. (No model.)

To all whom it may concern:

Be it known that I, HARVEY D. TAYLOR, a citizen of the United States, residing at Keeseville, Essex county, New York, have invented
5 a new and useful Improvement in Pliers for Applying Couplings of Wire, of which the following is a specification.

My invention relates to improvements in pliers, such as are used in applying coupling-
10 bands of wire or metal to hose, pipe, or anything held together by bands of wire or metal drawn around it, which enable one to apply the link of wire or metal as a band without welding the ends of the wire or metal together,
15 as is now done with the pliers such as are now in use. I attain this object by the device illustrated in the annexed drawings, in which—

Figure 1 is a side view of the pliers ready
20 for use. Fig. 2 is a side view of the upper member of the pliers detached. Fig. 3 is a side view of the lower part or member and its spring detached. Fig. 4 is a side view of the third part or lower jaw. Fig. 5 represents the
25 link of wire or other metal strip in the form to be applied by my pliers. Fig. 6 represents a link such as is now in use after being applied with pliers having two jaws or parts only, the ends of which are caught into the
30 closed ends J L and tighten the link about whatever it is to be applied to by closing the handles of the pliers and thereby opening the jaws of the pliers, thus drawing one end of the link, as L, through the other, J, tightly.

35 Similar letters refer to similar parts in the several figures.

In Fig. 4, *c d* represent the mortised or halved portion of lower jaw, *O'*, which fits a similar mortise or half, *c' d'*, of the lower member, and the two are held together by a rivet
40 passing through a hole, *R*, in both. The part *B* of the lower jaw, *O'*, is a tenon and made to fit into a mortise, *E*, in the upper member of the pliers, as shown by Fig. 2, and extends

to the dotted line *a*, and is held in place therein
45 by a rivet passing through both at *R'*. *S* is a strong metal spring attached to the lower member to throw the handles of the pliers apart. *H* is a notch in the outer end of jaw
50 *P* of the upper member, in which the closed end *J* of the link is caught in applying the coupling of wire. *I I* are serrated faces upon the jaws *O' O²*, to catch and hold the free ends
55 *K K* of the link or bent wire in applying it.

In use the link shown by Fig. 5 is passed
60 tightly around the thing to be coupled, bound, or joined, and the ends *K K* are passed under the closed end *J*. The jaws *I I* of the pliers are then applied to the open or free ends *K K* (grasping them) of the link or wire, and the
65 notch *H* is caught under the closed end *J* of the link. The arms of the pliers *m n* are then pressed together, which causes the jaws *O' O²* to clasp firmly with their serrated faces
70 *I I* the open or free ends *K K* of the link, while at the same time the lever or jaw *P*, holding the closed end of the link in its notch *H*, moves in a direction opposite to that of the jaws *O' O²*, and thus draws the ends *K K* of the link through the closed end *J* tightly, and
75 then by simply bending or turning the pliers over the closed end of the link the fastening is made.

What I claim as my invention, and wish to secure by Letters Patent, is—

75 The pliers described, consisting of two main members or arms and a short connecting member, the upper member, *m*, having the extension *P*, and provided with a notch, *H*, the lower member, *n*, having an upper jaw, *O²*,
80 the connecting member having the jaw *O'* and being pivoted to the lower member and also to the head of the upper member, as set forth.

HARVEY D. TAYLOR.

Witnesses:

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