

No. 665,803.

Patented Jan. 8, 1901.

J. F. SARGENT, JR.

TOOL FOR TIGHTENING AND SECURING HOSE COUPLINGS.

(Application filed Mar. 19, 1900.)

(No Model.)

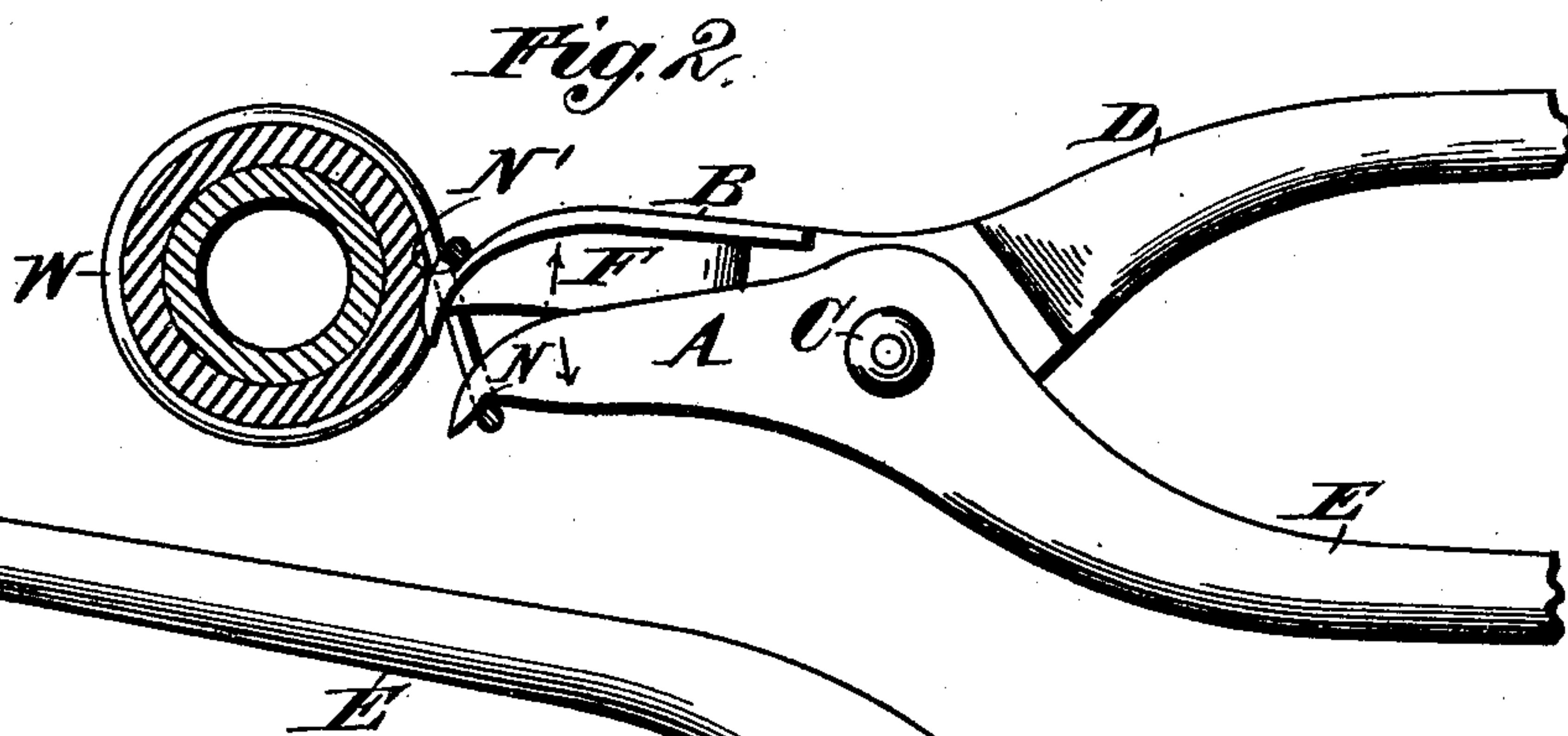
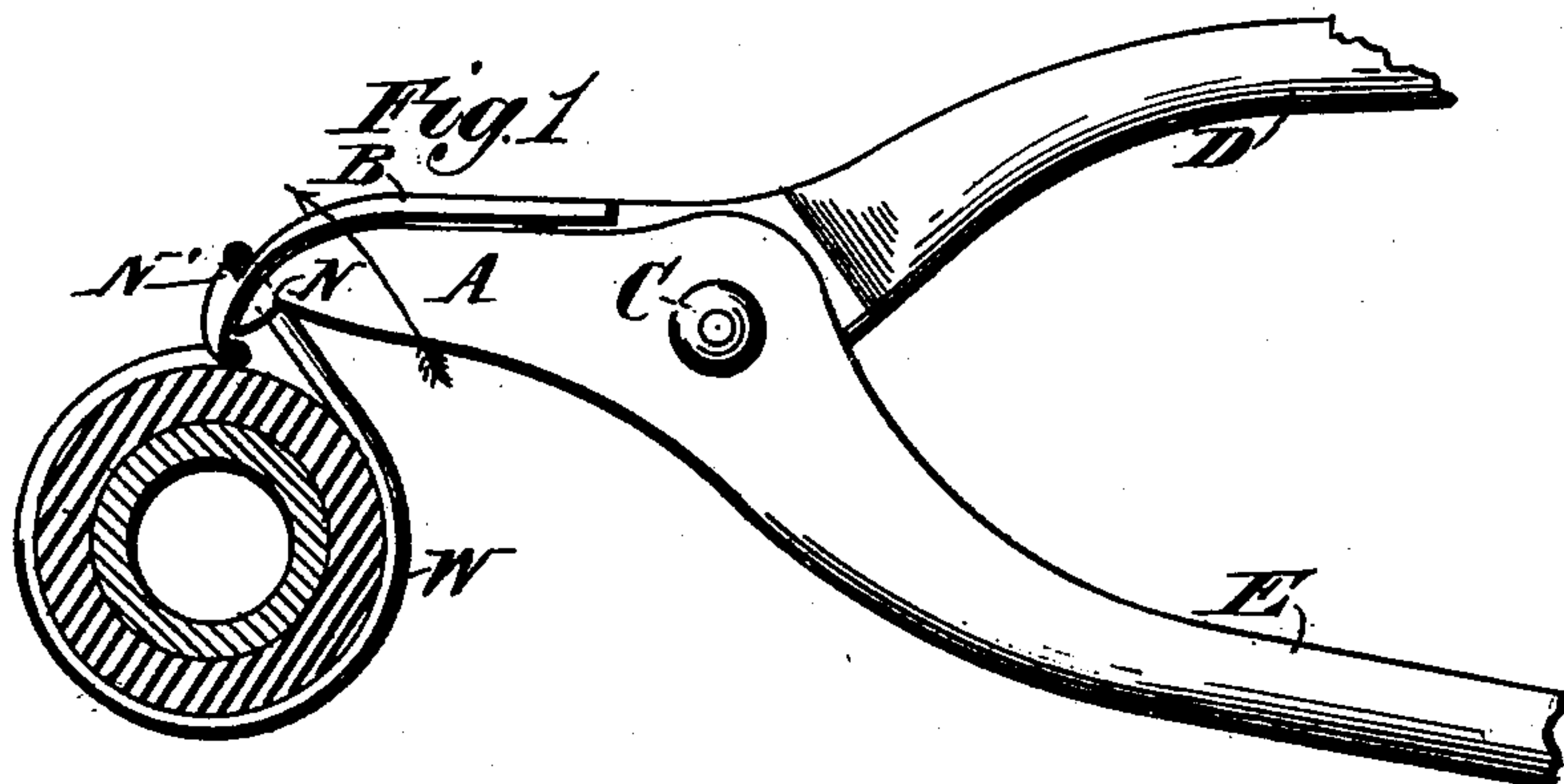


Fig. 3.

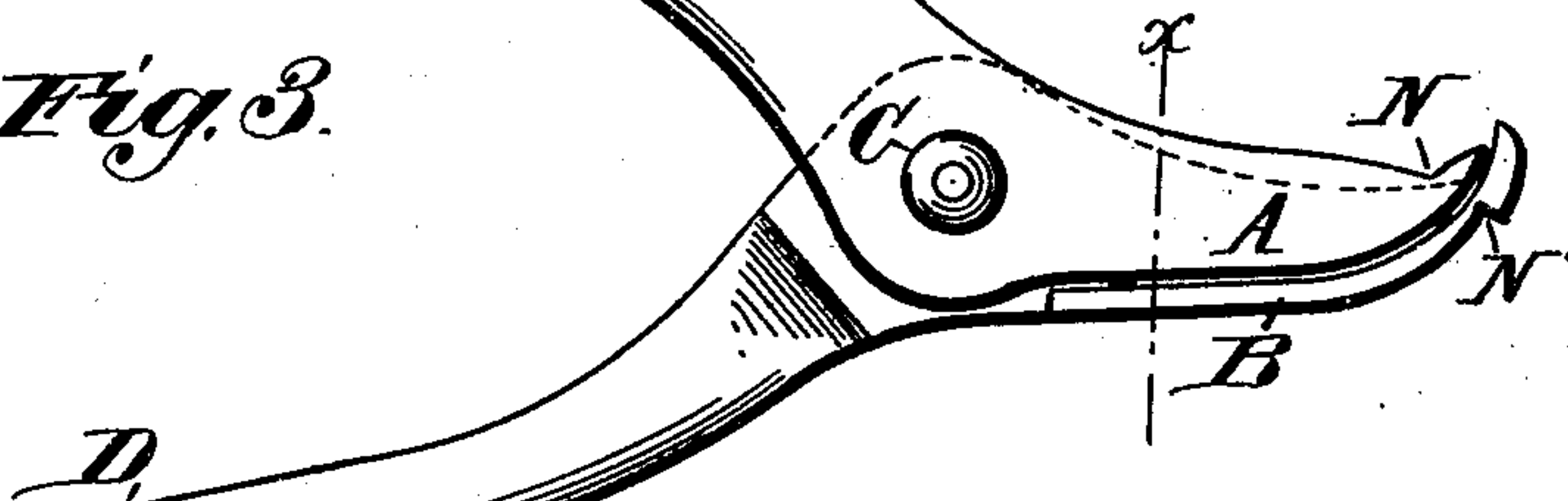


Fig. 4.

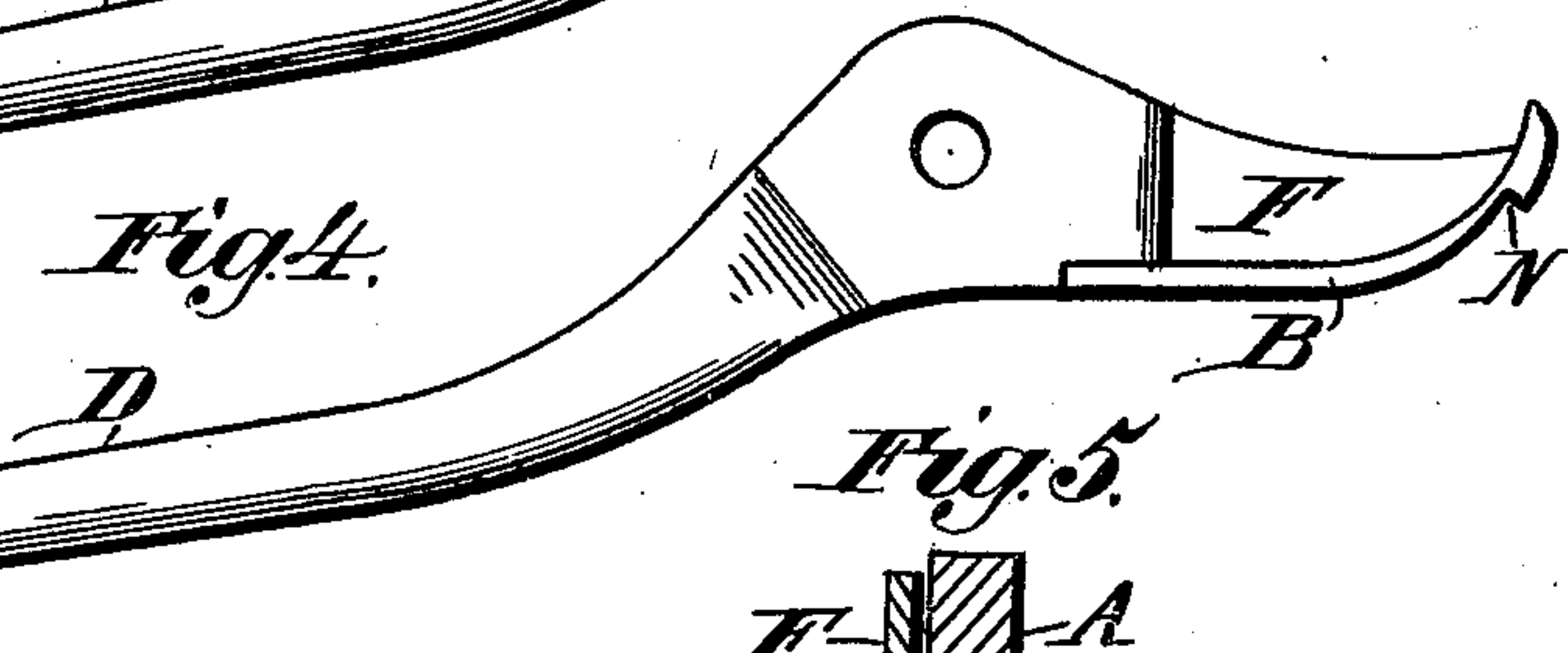


Fig. 5.

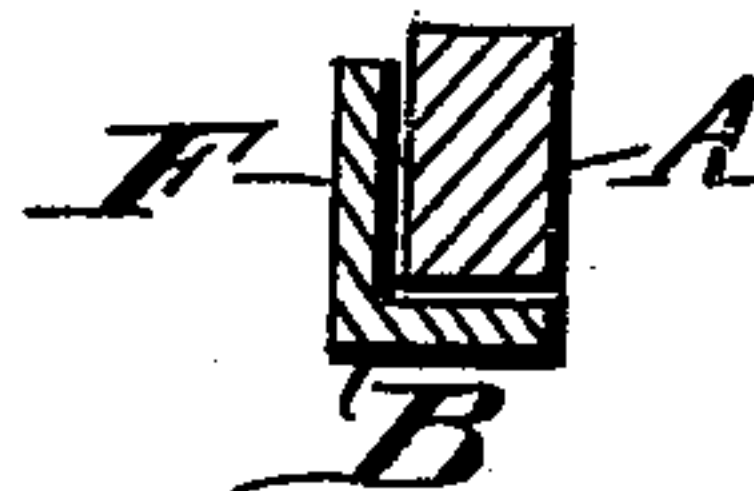
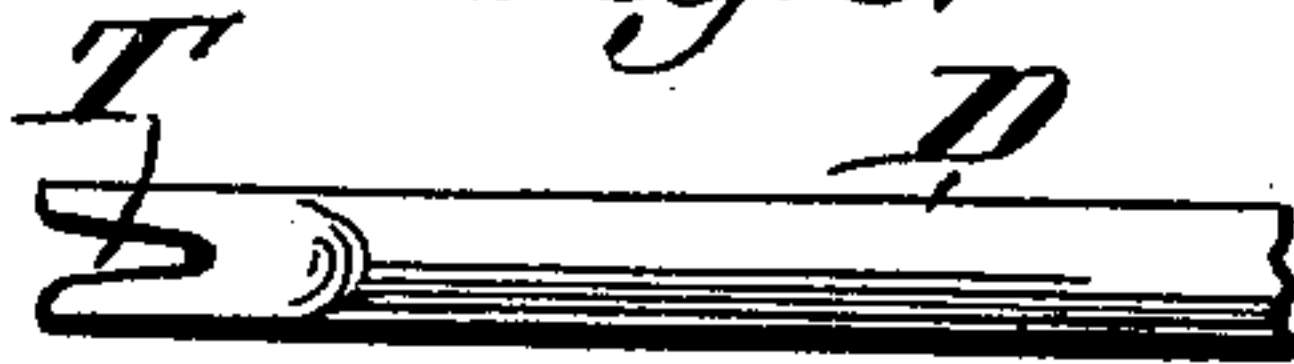


Fig. 6.



Witnesses.
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TOOL FOR TIGHTENING AND SECURING HOSE-COUPPLINGS.

SPECIFICATION forming part of Letters Patent No. 665,803, dated January 8, 1901.

Application filed March 19, 1900. Serial No. 9,319. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. SARGENT, Jr., a citizen of the United States, residing at Lowell, in the county of Kent and State of Michigan, have invented new and useful Improvements in Tools for Tightening and Securing Hose-Couplings, of which the following is a specification.

My invention relates to a new and useful tool for tightening and securing straps for securing hose-couplings; and the invention consists in a combination of a pair of jaws adapted to be opened by pressing together the handles or levers, the jaw which I term the "lower" jaw having an upward curve adapted to project above and in front of the upper jaw when the jaws are closed.

It also consists in the peculiar construction of the lower jaw, hereinafter fully described. The objects of my invention are, first, to construct a tool for the purpose specified which can be readily and quickly applied, and, second, to so construct the jaws that when they are closed they can be readily inserted into the loop of the hose-fastener. These objects I accomplish by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side view showing the position of the tool during the first step in the operation of attaching the strap to a hose, the latter being shown in section. Fig. 2 is a similar view showing the position of the jaws of the tool after the last step in the operation of attaching the strap. Fig. 3 shows a side elevation of the device with the jaws slightly open. Fig. 4 shows a side elevation of the lower jaw. Fig. 5 shows a sectional view on line X X of Fig. 2, and Fig. 6 shows a plan view of a portion of the handle of the lower jaw with its end provided with a tack-puller or nail-extractor.

Similar letters refer to similar parts throughout the several views.

A shows the upper jaw, and B shows the lower jaw. The upper jaw is curved to fit into the lower, so that when the jaws are closed the upper surfaces of the jaws lie, preferably, in the same plane. The outer end of the lower jaw B is curved upwardly,

so that when the jaws are closed the said outer end of the lower jaw will overhang or project above and in front of the jaw A, thus forming a hook which is adapted to engage with the loop of the hose-coupling strap W. The lower jaw B is provided with a handle D and with a strengthening-flange F, the latter being shown in Figs. 2, 3, and 4; but this flange may be omitted, if desired. When the jaws are closed, the jaw A lies by the side of the flange F and fits or rests upon the jaw B, as shown in Fig. 4.

E is the handle of the jaw A.

C is a rivet or bolt securing the jaws and levers together.

I prefer to construct the lower-jaw handle D with the tack-puller T.

The operation of my invention is as follows: The coupling-strap W is first applied to the hose H. The front end of the jaw B, projecting slightly above the jaw A, forms a hook which can be placed under the loop or between the loops or ends of the fastening-strap, and the handles E and D being pressed together open the jaws and tighten the loop upon the hose.

By my construction the tool is always in condition when closed to be inserted into the loops, and by pressing together the handles E and D the coupling-straps are tightened upon the hose. Afterward the other end of the strap is drawn over in the ordinary manner.

The advantages of my invention are as follows: First, the tool is in position to engage with the coupling-strap when the jaws are closed; second, by the use of the flange F the lower jaw is strengthened and the upper jaw fits into the lower jaw, so as to allow the front end of the lower jaw to extend slightly beyond the front end of the upper jaw, thereby forming a suitable engagement with the coupling-strap; third, by providing the tack-puller upon the lower jaw the tool may be used for more than one purpose.

In order to secure a more complete engagement between the jaws and the securing-strap, I propose to provide the jaws with notches, the notches in the upper jaw being shown by N and in the lower one by N'.

Having thus described my invention, what I claim to have invented, and desire to secure by Letters Patent, is—

1. A tool of the class described comprising
5 a pair of jaws pivoted together and having operating-handles, one of said jaws having its end extended beyond and overhanging the end of the other jaw to constitute a hook for engagement with the loop of a hose-strap,
10 and suitable engaging means for said loop on the outer surface of the jaw having the said end extension.

2. In a tool of the class described, the combination of an upper jaw, a lower jaw piv-
15 oted thereto and having its end curved upward and extended beyond the front end of the upper jaw to constitute a hook when the jaws are closed, said lower jaw being provided with a notch on its outer convex sur-
20 face near the end of the jaw, and handles for opening and closing said jaws.

3. In a tool of the class described, the combination of an upper jaw, a lower jaw piv-
oted thereto and having its end curved up-

ward and extended beyond the front end of 25 the upper jaw to constitute a hook when the jaws are closed, for the purpose specified, suitable engaging means for a hose-strap, on the outer surface of the lower jaw near the end thereof, a flange on one side of said 30 lower jaw, and handles for opening and closing said jaws, substantially as described.

4. A tool of the class described, comprising a pair of jaws pivoted together and having
operating-handles, one of said jaws having 35 its end extended beyond and overhanging the end of the other jaw to constitute a hook for engagement with the loop of a hose-strap, and suitable engaging means for said loop on the outer surface of each jaw, substantially 40 as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JAMES F. SARGENT, JR.

Witnesses:

EDWARD TAGGART,
JAMES B. DAVIES.