

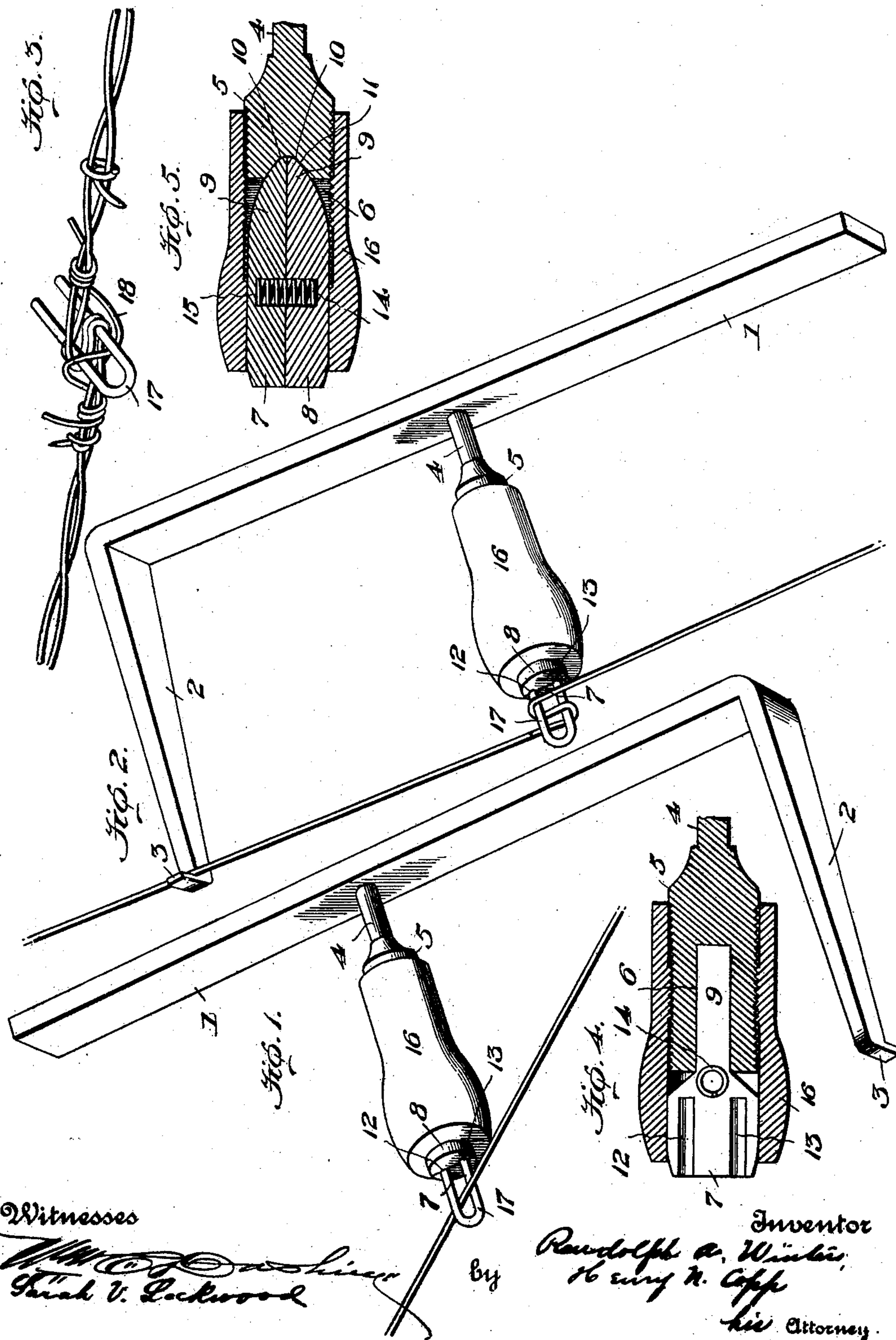
No. 696,291.

Patented Mar. 25, 1902.

R. A. WINTERS.
FENCE WIRE TIGHTENER.

(Application filed Sept. 20, 1901.)

(No Model.)



Witnesses

Frank V. Dickwood

by

Inventor
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UNITED STATES PATENT OFFICE.

RANDOLPH ARTHUR WINTERS, OF ATWOOD, KANSAS.

FENCE-WIRE TIGHTENER.

SPECIFICATION forming part of Letters Patent No. 696,291, dated March 25, 1902.

Application filed September 20, 1901. Serial No. 75,808. (No model.)

To all whom it may concern:

Be it known that I, RANDOLPH ARTHUR WINTERS, a citizen of the United States, residing at Atwood, county of Rawlins, State of Kansas, have invented certain new and useful Improvements in Fence-Wire Tighteners, of which the following is a specification.

My invention relates to fence-wire tighteners.

10 The object of the invention is the provision of a fence-wire-tightening tool of simple and durable construction which can be produced at small expense and will be adapted for rapid manipulation to take up slack wire in a strand
15 of fence-wire and whereby when this is done a permanent tightening will be effected.

20 Having the foregoing object in view, the invention consists of a fence-wire-tightening device of improved construction, as fully set forth in the following description, while the novel features are recited in the appended claim.

25 In the accompanying drawings, Figure 1 is a view illustrating the initial position of the staple and the tool; Fig. 2, a view showing the position of the tool and illustrating the bend formed after the tool has completed its work; Fig. 3, a detail of the bend formed in the fence-wire; and Figs. 4 and 5 details of
30 the improved chuck of the tool.

My improved tool has a handle 1, with a right-angular arm 2 formed integral therewith, provided with a hooked end 3.

35 The numeral 4 designates a stem secured to the handle intermediate its ends, on which is the screw-threaded chuck member 5, having the diametrical slot 6 therethrough.

40 The numerals 7 and 8 designate jaws having shanks 9, which are slidable in the slot, while their rear ends or tips 10 are curved or beveled for reception in a countersink 11, whereby they are in a sense provided with a pivotal connection. The heads of these jaws

have longitudinally-extending grooves 12 and 13, and the jaws are normally spread by a 45 coil-spring 14, seated in box 15.

The numeral 16 designates a chuck member or sleeve, which is internally threaded and screwed over the slotted chuck member and adapted for collapsing the jaws. 50

In using the invention when it is desired to take up the slack in fence-wires a staple 17 is made to straddle the fence-wire, as shown in Fig. 1. Its legs are inserted in the grooves of the jaws and the jaws clamped thereon. 55 The handle is then given a three-quarters turn toward the right and the hooked end on the arm brought under the fence-wire, whereupon it will be as shown in Fig. 2. This engagement of the hooked end of the arm with 60 the wire holds the tool rigid and a binding-wire 18 is then slipped through the closed end of the staple and its ends twisted a few times around the fence-wire on opposite sides of the staple. The tool can then be removed and 65 the joint or bend formed will remain permanent.

70 Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a device of the class described, the combination with a chuck member having a slot and a countersink, of chuck-jaws having shanks located in the slot and ends located in the countersink, said jaws having heads each 75 provided with a pair of grooves, a spring for spreading the jaws, a sleeve fitted over the chuck member first named for pressing the jaws together and a handle for the chuck.

80 In testimony whereof I hereunto affix my signature in presence of two witnesses.

RANDOLPH ARTHUR WINTERS.

Witnesses:

B. A. HALLEY,
ALBERT HENNING.