

B. T. LAWSON.
WIRE TWISTING TOOL.

APPLICATION FILED APR. 21, 1910. RENEWED DEC. 4, 1912.

1,058,376.

Patented Apr. 8, 1913.

Fig. 1

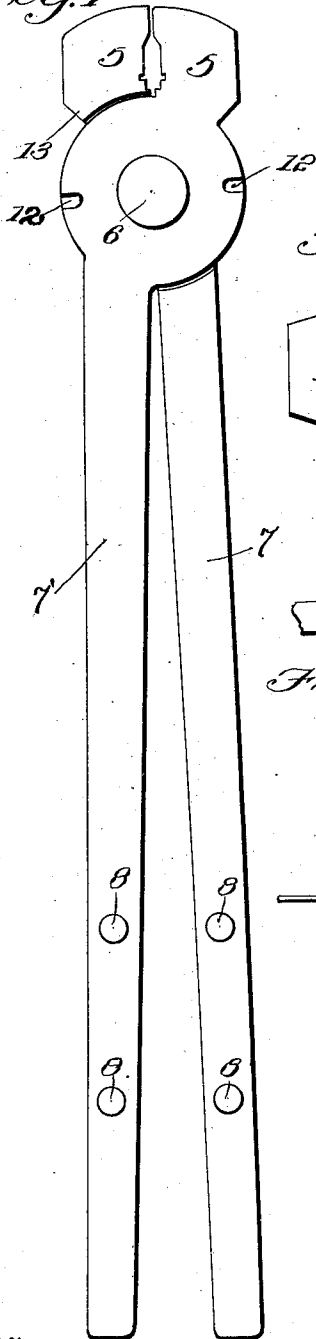


Fig. 2.

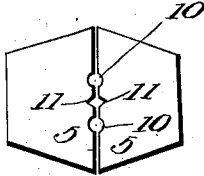


Fig. 3.

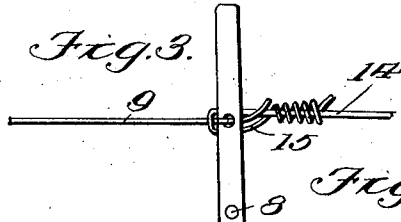


Fig. 4.

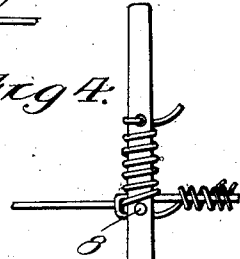


Fig. 5.

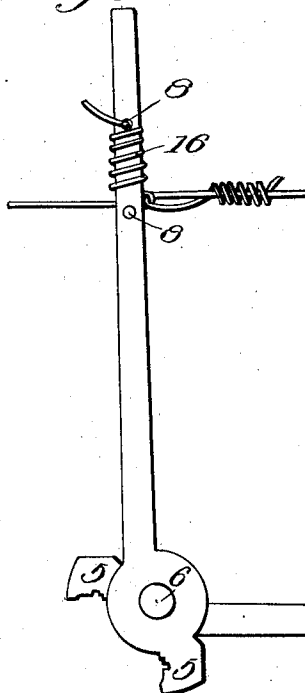
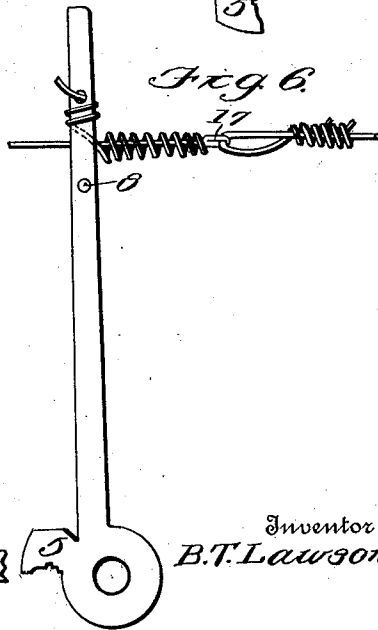


Fig. 6.



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WIRE-TWISTING TOOL.

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Specification of Letters Patent.

Patented Apr. 8, 1913.

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To all whom it may concern:

Be it known that I, BASCOM T. LAWSON, citizen of the United States, residing at Ada, in the county of Pontotoc and State of Oklahoma, have invented certain new and useful Improvements in Wire-Twisting Tools, of which the following is a specification.

This invention relates to tools for connecting fence wires.

The object of the invention is to provide a tool having means for engagement with the adjacent ends of a fence wire so that by operating the tool, the wires may be effectually united and placed under the desired tension.

The operation of the tool consists in forming a loop in one wire strand, extending the loop across the operating tool, passing the adjacent end of the mating strand through the loop and through a hole in the tool, rotating said tool on its axis in one direction to coil said mating strand thereon, rotating the tool in the opposite direction to release the loop from said tool, and subsequently rotating the tool about the strand to uncoil the wire from the tool and wrap said wire around the adjacent strand.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

For a full understanding of the invention and the merits thereof, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a side elevation of a wire twisting tool constructed in accordance with my invention; Fig. 2 is a top plan view of the same; Fig. 3 is a side elevation showing the tool positioned on the adjacent end of a line wire preparatory to connecting the ends of said wire; Fig. 4 is a similar view showing the manner of coiling one of the strand wires on the tool when the latter is rotated in one direction; Fig. 5 is a side elevation showing the position assumed by the loop when the operating tool is rotated in the opposite direction preparatory to twisting the terminal of one of the strand wires around the body thereof; Fig. 6 is a plan view showing the manner of twisting the strand wire in front of the loop.

Corresponding and like parts are referred to in the following description and indicated

in all the views of the drawings by the same reference characters.

The operating tool or pliers forming the subject matter of the present invention includes co-acting jaws 5 pivotally mounted at 6 and provided with operating handles 7 and 7', there being spaced openings 8 formed in the handles to permit the insertion of a wire strand or fence wire 9. The outer or free ends of the jaws 5 are provided with wire seats 10, while the inner faces of the jaws are provided with registering V-shaped sockets 11 disposed between the seats 10.

The pliers are provided with the usual wire cutters 12, there being a stop shoulder 13 formed on each jaw 5 for limiting the opening movement of the handle so that when the tool is opened to its widest extent, the handles will assume a position at substantially right angles to each other, as best shown in Fig. 3 of the drawings.

In using the tool, the adjacent end of one of the fence wires or strands 14 is bent or coiled around the body of said tool to produce a terminal loop 15, which latter is positioned against the adjacent face of one of the handles at the rear of the opening therein. The free end of the mating strand or wire 9 is then extended through the loop 15 and adjacent opening 8 in the handle 7, after which the mating handle 7' is grasped in the hand and the tool rotated in the direction indicated by the arrow in Fig. 3 of the drawing, thus coiling the free end of the wire strand 9 around the operating handle 7 and placing the strands 9 and 14 under tension, as shown in Fig. 4 of the drawing. The handle 7 is then partially rotated in the opposite direction which disengages the loop 15 from the handle 7 so that by rotating the tool about the strand wire 9, the wire constituting the coil 16 may be wrapped around said strand, thus forming a second loop 17. A continued rotation of the tool in a vertical plane will cause the wire constituting the coil 16 to follow the strand 9 in a spiral path, thus preventing accidental separation of the wire sections.

Attention is here called to the fact that one of the handle members forms a means for engagement with the adjacent ends of the wire strands, while the other member constitutes a handle by means of which the tool may be rotated to effect the union of the strand sections. It will also be noted that

the construction of the tool is such that said tool may be used in the same manner as an ordinary pair of pliers.

Having thus described the invention, what is claimed as new is:

- 5 1. An operating tool for connecting wire strands comprising pivotally connected jaws each provided with an operating handle movable to open position with the inner longitudinal edge arranged at right angles to the inner longitudinal edge of the mating handle, each handle having an opening formed therein and spaced from the free end thereof for the reception of a strand of wire.
- 10 2. An operating tool for connecting wire strands, comprising pivotally connected jaws, each provided with a straight longitu-
- 15

dinally disposed operating handle having an opening formed therein and spaced from the free end of the handle for the reception of a strand wire, and stop shoulders formed on the jaws and adapted to engage the operating handles for causing said handles to assume a position with their inner longitudinal edges at substantially right angles to each other when said handles are in open position.

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

BASCOM T. LAWSON. [L. S.]

Witnesses:

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