

1,058,565.

Fig. 1.

Witnesses
W. M. Lowell,
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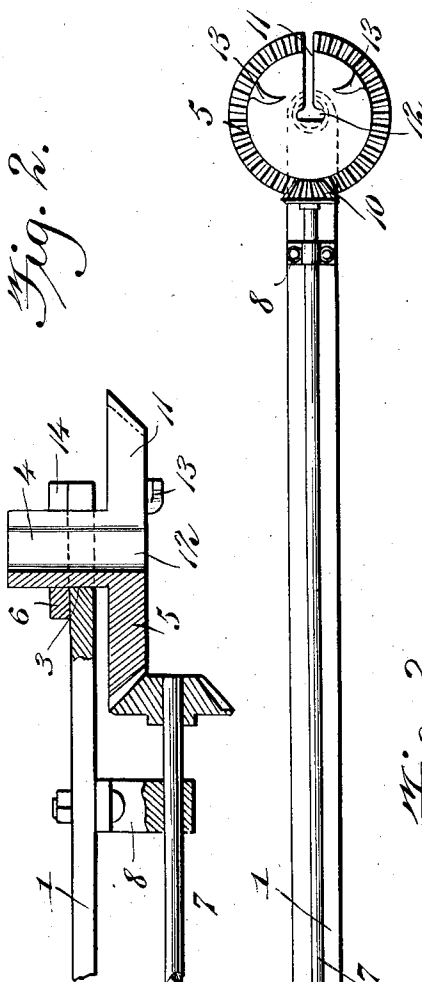


Fig. 2.

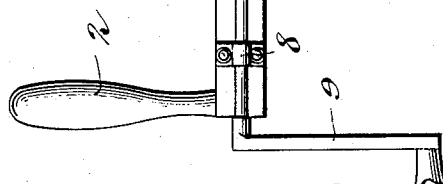


Fig. 3.

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HENRY DUBBELS, OF VIOLA, MINNESOTA.

ROTARY WIRE-SPLICER.

1,058,565.

Specification of Letters Patent.

Patented Apr. 8, 1913.

Application filed October 16, 1912. Serial No. 726,141.

To all whom it may concern:

Be it known that I, HENRY DUBBELS, a citizen of the United States, residing at Viola, in the county of Olmsted and State of Minnesota, have invented new and useful Improvements in Rotary Wire-Splicers, of which the following is a specification.

This invention relates to wire splicers and particularly to splicers for connecting the longitudinal line wires of fence fabrics; and has for an object to provide apparatus of this character which may be operated with the minimum labor and with the maximum rapidity; one which may be readily connected with and disconnected from the wires; and one which will invite the wires to their initial intertwisting positions immediately on assembling the tool therewith.

With this and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be hereinafter described and claimed.

In the accompanying drawings:—Figure 1 is a top plan view of the tool; Fig. 2 is a horizontal section therethrough; Fig. 3 is a side view thereof.

The tool comprises a relatively long support 1, which is provided adjacent to one end with a gripping handle 2 and at its opposite end with a bearing 3 to accommodate the hollow hub 4 of the driven beveled gear wheel 5. A sleeve 6 is secured to the hub 4 at one side of the bearing 3 so as to form a stop to hold the hub against longitudinal displacement. A driving shaft 7 of the tool is journaled in bearings 8 which extend from one side of the support 1, and as shown said shaft is extended at one end beyond the gripping portion 2, where it has secured thereto a crank handle 9, while an opposite end of said shaft is secured to a driving pinion 10.

The gear wheel 5 is provided with a radially-extending wire receiving slot 11, which opens at its inner end into the radially opening bore 12 of the hub 4 whereby the wires to be spliced may be extended centrally through the driven wheel 5 and dis-

posed in the path of the twisting hooks 13 at one side of said wheel 5, as shown in Fig. 2. The retaining collar 6 is provided with a radial slot 14, which is disposed immediately opposite the bore 12 and in line with the slot 11 of the driven gear.

Now that the details of construction of the splicing tool are clearly understood it is said that the companion wires are extended longitudinally through the hub 4 of the driven gear and arranged therein so that their terminals are directly in the path of the twisting hooks 13. The portion 2 of the support 1 is grasped in one hand of the operator, while the crank handle 9 is taken in the other, and the latter revolved whereby to cause said hooks 13 to positively engage with the wires as the driven wheel is rotated and with the resultant intertwisting or splicing of the wires as will be seen.

Having thus described my invention, what I claim is:—

A wire splicer comprising a support provided at one end with a rightangularly-extending fixed handle and provided at its opposite end with a forwardly-opening bearing portion, a twisting gear wheel provided with a hollow hub extending in said bearing portion, the said gear wheel having a radial wire-receiving slot therein, a retaining collar secured to the hub of the gear wheel and provided with a radial wire-receiving slot alined with the slot of the gear wheel, bearings extending from the side of the support, a driving shaft journaled in the bearings and provided at one end with a manipulating handle and provided at its opposite end with a gear wheel meshing with the twisting gear wheel, and companion twisting hooks carried by said twisting gear and disposed at the opposite sides of the slots thereof.

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

HENRY DUBBELS.

Witnesses:

M. D. FULLER,
GROVER C. TOCK.