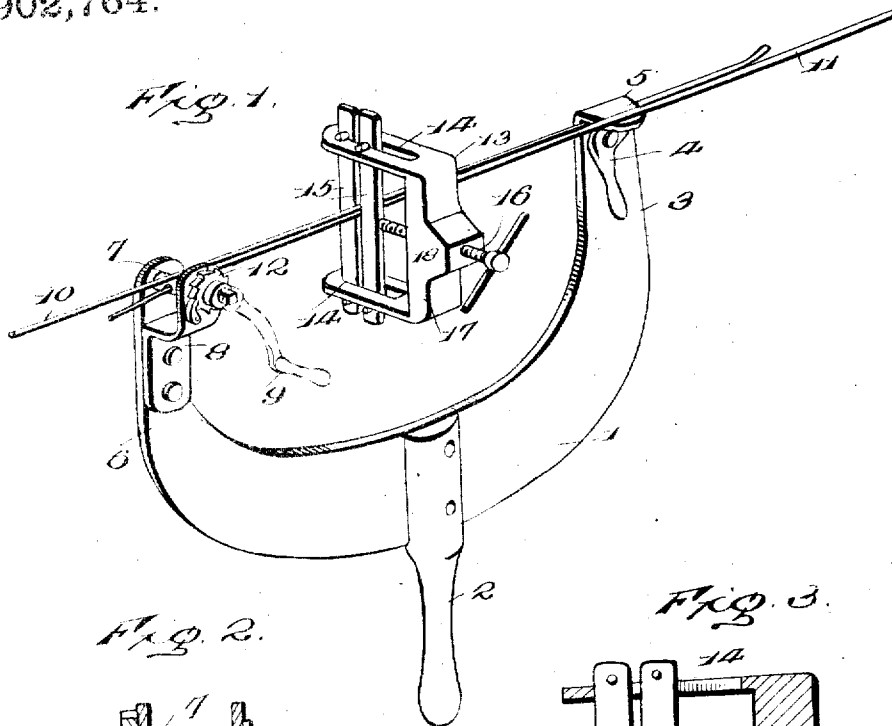
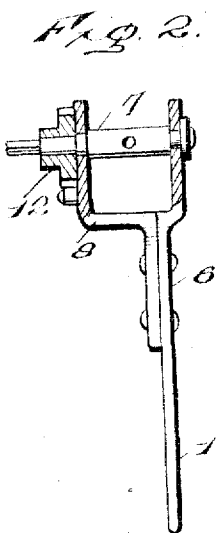
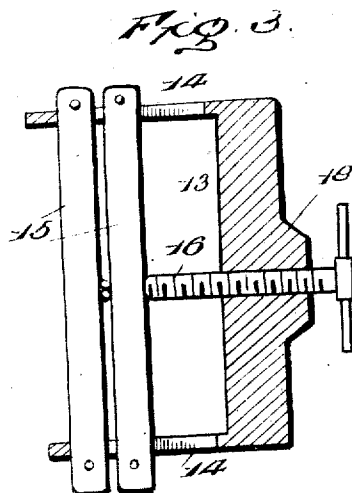
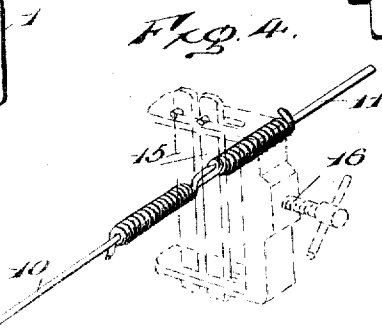


J. D. RODGERS.
WIRE TIGHTENER AND SPLICER.
APPLICATION FILED JAN. 24, 1908.

Patented Nov. 3, 1908.

902,764.



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UNITED STATES PATENT OFFICE.

JAMES D. RODGERS, OF GEORGETOWN, KENTUCKY.

WIRE TIGHTENER AND SPLICER

No. 902,764.

Specification of Letters Patent.

Patented Nov. 3, 1908.

Application filed January 24, 1908. Serial No. 412,488.

To all whom it may concern:

Be it known that I, JAMES D. RODGERS, citizen of the United States, residing at Georgetown, in the county of Scott and State of Kentucky, have invented certain new and useful Improvements in Wire Tighteners and Splicers, of which the following is a specification.

When splicing the ends of wires, it is usually required that the same be drawn together and particularly this is the case when joining the broken ends of fence wires or telephone and telegraph wires.

The present invention provides a simple and effective appliance admitting of the ends of wires to be spliced being drawn together and secured until the splicing is effected, the means comprising an appliance for drawing the overlapped ends together, and a clamp for securing the overlapped ends and holding the same during the operation of twisting the terminal or one wire about the end portion of the other wire.

The invention will be more particularly set forth hereinafter and pointed out in the appended claims and illustrated in the drawings hereto attached forming part of the specification, and in which:

Figure 1 is a perspective view of the invention applied; Fig. 2 an end view of the tightener, one arm being broken away; Fig. 3 is a side view of the clamp, the frame being in section; and Fig. 4 is a detail view in perspective of a splice, the dotted lines showing the position of the clamp with reference to the splice.

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 tightener consists of a frame 1 of approximately U-form, a handle 2 being fitted to the horizontal portion of the frame. One arm or member 3 of the frame is provided with a clamp, the same consisting of a clamp lever 4 and a jaw 5, the latter being an integral part of the arm or member 3 and formed by bending the extremity thereof. The opposite arm or member 6 is provided at its upper end with a windlass 7, the same being journaled at one end in the upper end of the part 6 and at its opposite end in a bracket 8 secured to a side of the member or arm 6. A crank handle 9 is fitted to one end of the windlass 7 to admit of turning the same when it is required to draw the ends

of the wire together preliminary to splicing the same. The handle 2 being located intermediate the ends of the frame, admits of the latter being conveniently manipulated, the strain and weight being equalized.

As shown in Fig. 1, the numeral 10 indicates the end of one wire and is secured to the frame by the clamp comprising the parts 4 and 5. The other wire to be spliced is indicated at 11 and its terminal portion is engaged with the windlass 7 by being passed through an opening therein. The end portions of the wires 10 and 11 overlap or pass by each other in the place formed between the arms or members 3 and 6 of the frame. Upon turning the windlass 7 the wires 10 and 11 are tightened or subjected to tension by winding the end portion of the wire 11 upon the windlass 7. Unwinding of the wire from the windlass 7 is prevented by the usual ratchet mechanism 12 consisting of a ratchet wheel fitted to an extension of the windlass 7 and a pawl pivoted to a side of the bracket 8. After the wires are tightened a clamp is fitted to the overlapped end portions of the wires at a point between the arms 3 and 6, as indicated most clearly in Fig. 1. After the clamp has been secured to the overlapped ends of the wires, the tightener is removed and the end portion of one wire is wrapped around adjacent wire and the end portion of the latter wire is wrapped about the first mentioned wire, forming the well known splice, as indicated in Fig. 4. The clamp consists of a frame 13 of approximately U-form, the members of the frame having longitudinal slots 14 in which the end portions of clamps 15 are fitted. A set screw 16 threaded into the closed end of the frame 13 serves to force the clamp members 15 together to grip the overlapped ends of the wires placed between them. The frame 13 is reinforced at its closed end, as shown at 17, the middle portion being thickened, as shown at 18, and provided with a threaded opening in which is fitted the set screw 16.

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

1. In a wire splicer, the combination of an approximately U-shaped frame, a clamp at the end of one arm of the frame for securing one end of the wire to be spliced, and a windlass mounted upon the extremity of the opposite arm and adapted to secure the end of the other wire to be spliced and to posi-

tively draw the two wires together to secure the requisite tension preliminary to splicing.

2. In a wire splicer, the combination of an approximately U-shaped frame having the terminal portion of one arm bent laterally to form a jaw, a cam lever pivoted to said arm and cooperating with the bent end thereof to grip one of the wires, a bracket secured to a side of the opposite arm, a windlass mounted in said bracket and in the adjacent arm and adapted to receive the other

wire to wind the same thereon for drawing the two wires together, and means for preventing backward rotation of the windlass so that the wires have been subjected to the proper tension. 15

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

JAMES D. RODGERS. [L.S.]

Witnesses:

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