S. A. D. LINN.

WIRE SPLICER.

APPLICATION FILED JULY 30, 1910.

983,911. Patented Feb. 14, 1911.

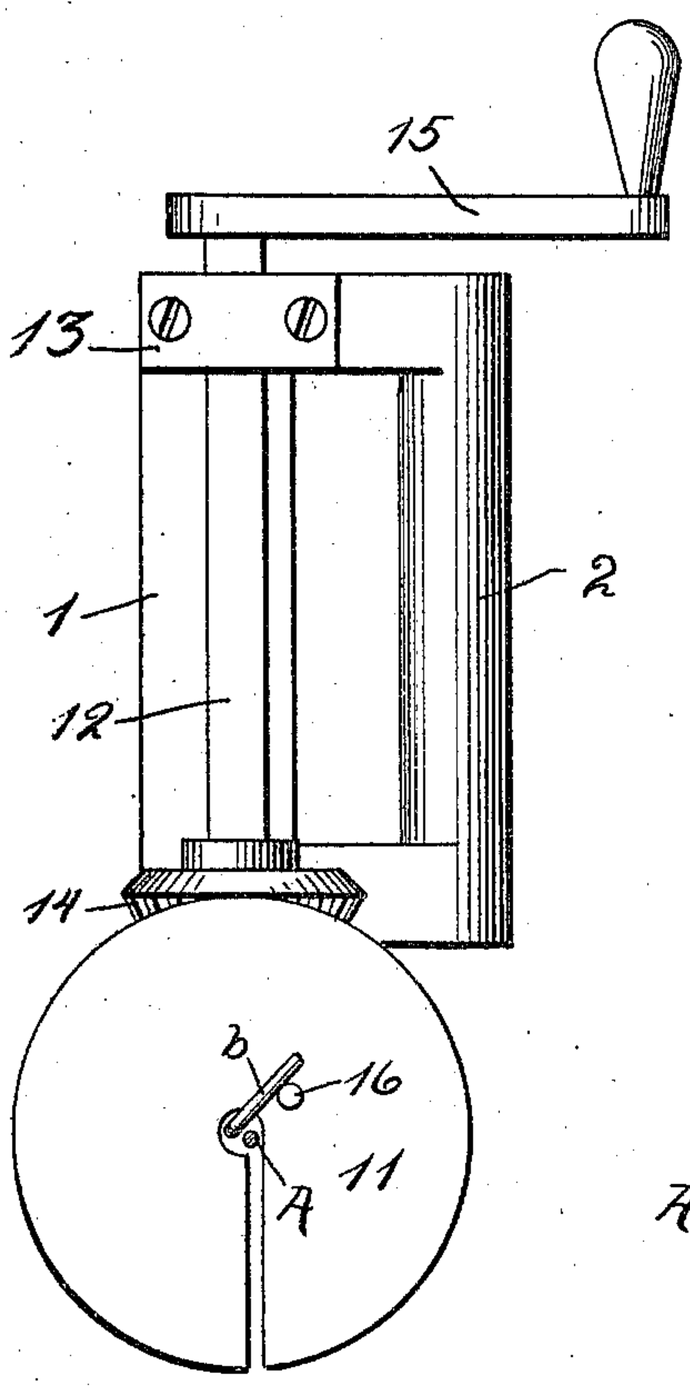

Fig. 1.

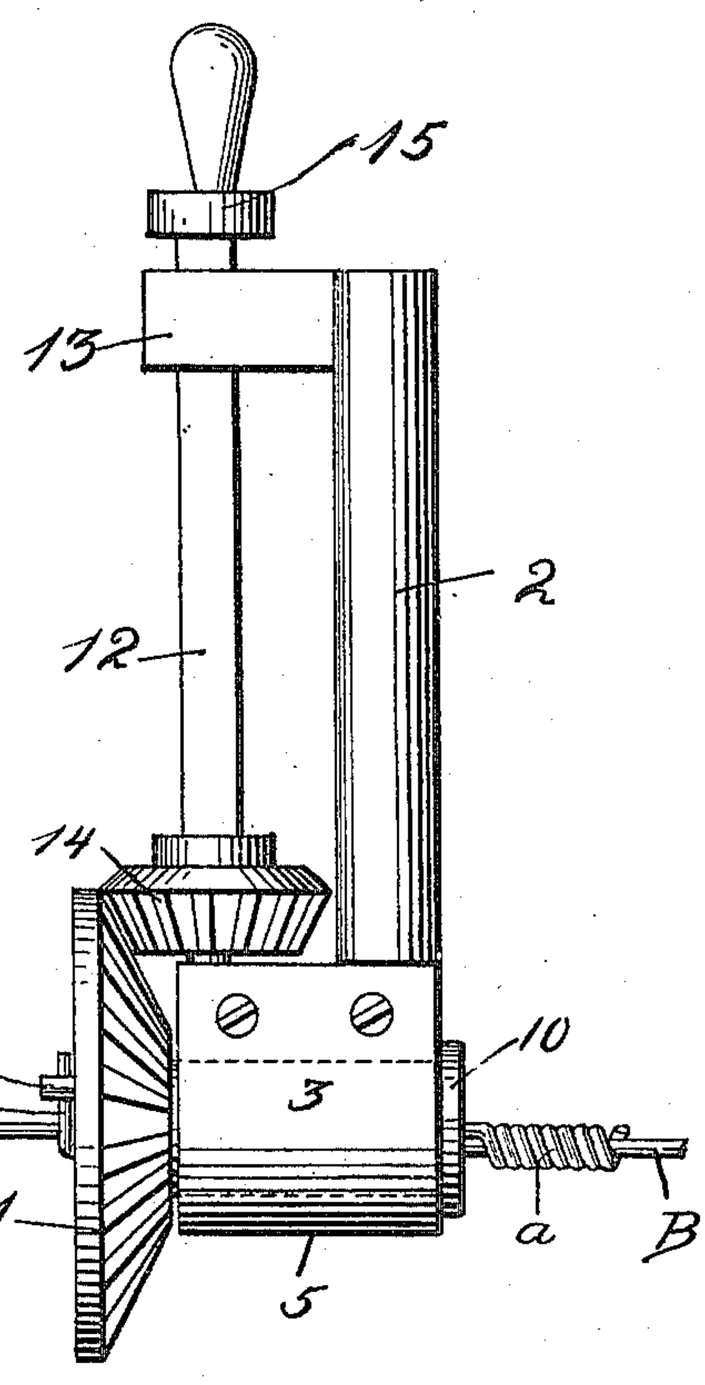

Fig. 2.

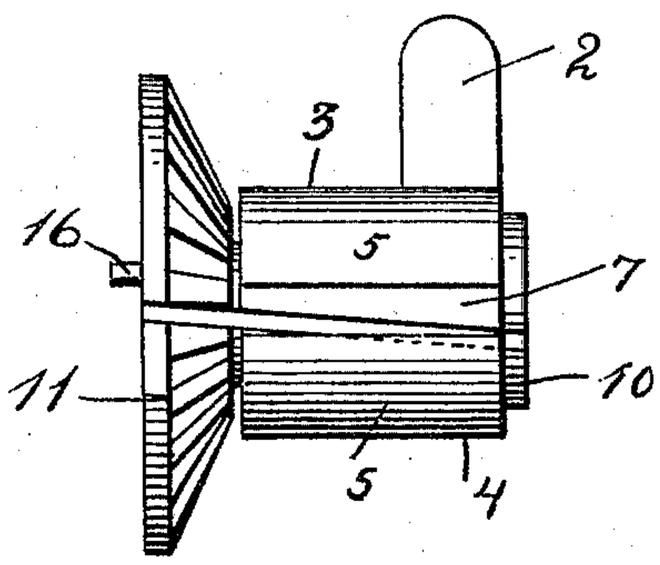

Fig. 3

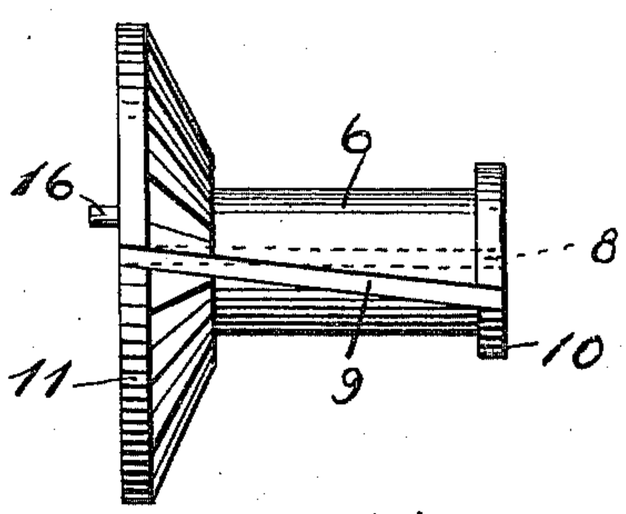

Fig. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

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WIRE-SPLICER.

983,911. Specification of Letters Patent. Patented Feb. 14, 1911.

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To all whom it may concern:

Be it known that I, STEPHEN A. D. LINN, a citizen of the United States, residing at Bluffton, in the county of Wells and State of Indiana, have invented certain new and useful Improvements in Wire-Splicers, of which the following is a specification.

My invention relates to devices for twisting one strand of wire on another and has for its object the provision of a hand operated tool that is simple in construction, reasonable in cost of manufacture and extremely effective in operation.

My invention will be described in detail hereinafter and illustrated in the accompanying drawings in which—

Figure 1 is a front view of my improved device showing it in position on the wires to be spliced, Fig. 2, a side view, Fig. 3, an end view, and Fig. 4, a detail view of the twisting member.

In the drawings similar reference characters will indicate corresponding parts in all of the views.

My improved splicer is mounted on a base bar 1 having a laterally extending handle 2 and plates 3 and 4 secured to its lower end with inwardly curved extensions 5 that form with the lower end of base bar 1 a journal box for the twisting shaft 6. In the preferred form of my device the front plate 3 is removable secured to base bar 1 to permit removal and replacement of shaft 6, though if desired, plate 4 may be the removable one, or both plates may be made removable. The lower ends of the plates 3 and 4 are spaced apart to form a slot 7 through which the wire is placed in the twisting shaft 6. Twisting shaft 6 is formed with a central longitudinal bore 8 and a slot 9 arranged on a plane diagonal with the bore but communicating therewith, so as to retain the wire in position therein when in operation.

10 indicates a head on one end of the shaft and 11 a beveled gear wheel on the other end which prevents longitudinal movement of the shaft, said head and gear wheel being formed with bores and slots in alinement with the bore 8 and slot 9 in the shaft.

12 indicates a driving shaft journaled in plates 3 and 4 and in box 13 on the base bar 1 on which is secured a beveled gear wheel 14 that meshes with gear wheel 11, and 15 designates a crank handle to rotate said shaft 12.

16 indicates a pin on the face of gear wheel 11 to engage the strand of wire to be twisted.

In Fig. 1 my device is shown in operation on two wires A and B, to be spliced, the end of wire A having already been twisted on wire B, as shown at *a*, while the machine is shown in position to twist the end *b* of wire B on wire A. As a preliminary to splicing the wires their ends are bent at right-angles to the strand as shown at *b* and the machine placed in position on one of the strands by inserting the strand in the bore 8 through slot 9. The machine is then adjusted so that the bent end of the other strand of wire engages pin 16, when by rotating shaft 12 shaft 6 and gear wheel 11 will be rotated and the bent end of the wire, as *b* in Fig. 1, will be twisted on the mating strand A.

Having thus described my invention what I claim is:

1. A wire splicer comprising a base bar, a handle secured to said base bar, plates secured to one end of the base bar and forming a journal-bearing therewith, a shaft journaled in said bearing having a central longitudinal bore and a slot arranged diagonally of said bore, a gear wheel secured to said shaft, a pin projecting from said gear wheel, and means geared to said gear wheel to rotate the shaft aforesaid.

2. A wire splicer comprising a base bar, a handle secured to said base bar, plates secured to one end of the base bar and forming a journal bearing therewith, a twisting shaft journaled in said bearing and having a central longitudinal bore and a slot arranged diagonally of said bore, a head on one end of the shaft, a beveled gear wheel on the other end of the shaft, a pin secured to the face of the gear wheel, journal boxes secured to the base bar, a driving shaft journaled in said boxes, a gear wheel secured to said driving shaft and meshing with the gear wheel on the twisting shaft, and an operating handle secured to the driving shaft.

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

STEPHEN A. D. LINN.

Witnesses:
W. H. EICHHORN,
E. C. VAUGHN.