

No. 663,261.

Patented Dec. 4, 1900.

L. A. DENNY.  
WIRE SPLICING TOOL.  
(Application filed May 18, 1900.)

(No Model.)

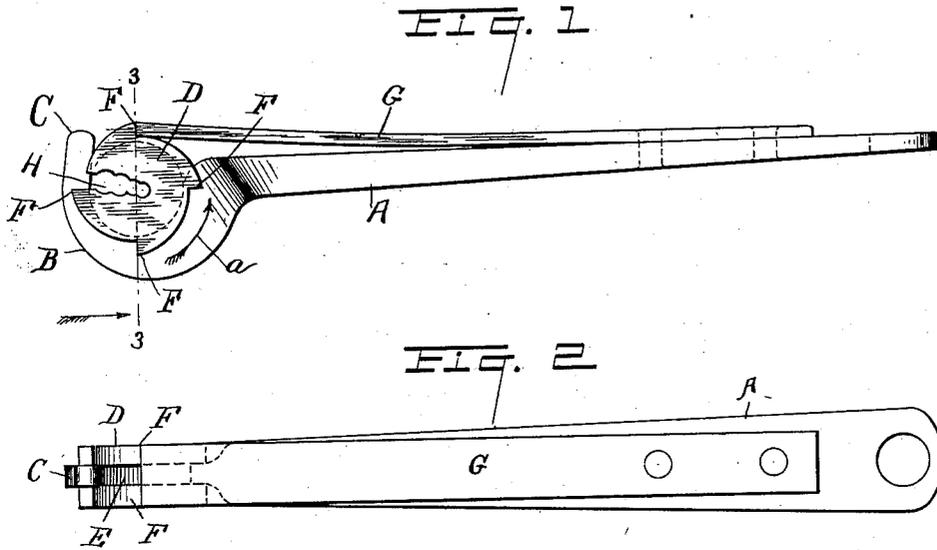
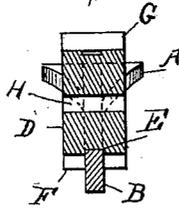


FIG. 3



WITNESSES  
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# UNITED STATES PATENT OFFICE.

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## WIRE-SPLICING TOOL.

SPECIFICATION forming part of Letters Patent No. 663,261, dated December 4, 1900.

Application filed May 18, 1900. Serial No. 17,095. (No model.)

*To all whom it may concern:*

Be it known that I, LEWIS ALBERT DENNY, a citizen of the United States, residing at Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Wrenches, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to wrenches for connecting the ends of wires used for telephone, telegraph, and similar purposes; and the object thereof is to provide an improved device of this class which is simple in construction and operation and comparatively inexpensive and by means of which the connection of wires used for the purposes specified and for other purposes may be quickly, easily, and conveniently made.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which like reference characters denote like parts in the several views, and in which—

Figure 1 is a side view of my improved wrench; Fig. 2, a plan view, and Fig. 3 a cross-section on the line 3 3 of Fig. 1.

In the practice of my invention I provide a tool of the class described comprising a main handle A, provided at one end with a semi-circular or segmental jaw B, the free end of which is preferably raised slightly above the main handle, as shown at C, and within the semi-circular or segmental jaw B is placed a circular head D, provided with an annular groove E, in which the jaw B fits, and said circular head D is provided with cam-teeth F, four of which are preferably employed, as shown in Fig. 1, and all of which project in the same direction. I also secure to the main handle A a spring G, one end of which is free and presses on the circular head D, and by means of the groove E in said head, the segmental or circular jaw B, and the spring G the said head is held securely in place and is free to turn in one direction, the said direction being indicated by the arrow *a* in Fig. 1.

The circular head D is provided at one side with a radial slot H, which extends to the center thereof and preferably opens adjacent to the face of one of the cam-teeth F, as is also shown in said figure, and the walls of

said slot or opening H are preferably serrated or provided with transverse grooves which serve to hold the wire or wires in the operation of the device, as hereinafter described. The groove E in the head D also divides the segmental teeth F, as is clearly shown in Figs. 2 and 3, and by taking hold of said head by the thumb and finger and holding it and by raising and lowering the handle A, with which the spring G is connected, the operation of the device may be readily understood. As the handle is depressed the head D is held stationary, while as the handle is raised said head is turned in the direction of the arrow *a*.

In connecting the ends of wires they are bent and hooked together in the usual manner or by means of the slot or opening in the head D, and the ends of the wires are successively passed through said slot or opening transversely of said head, and by operating the device in the manner above described the ends of said wires are closely wrapped around the main portion of the wire in the usual manner.

It is evident that this device may be used for other purposes and that changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

A wrench of the class described, comprising a handle provided at one end with a segmental jaw, a revoluble head mounted in said jaw and provided with cam-teeth, and a spring secured to said handle and adapted to bear on said head opposite the central portion of said jaw and to operate in connection with said teeth, said head being provided in one side with a radial slot or opening, and said head being also provided around the perimeter thereof with a groove in which said jaw fits, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 14th day of May, 1900.

LEWIS ALBERT DENNY.

Witnesses:

JOSEPH C. PERRINE,  
J. EDUARD GRAHAM.