

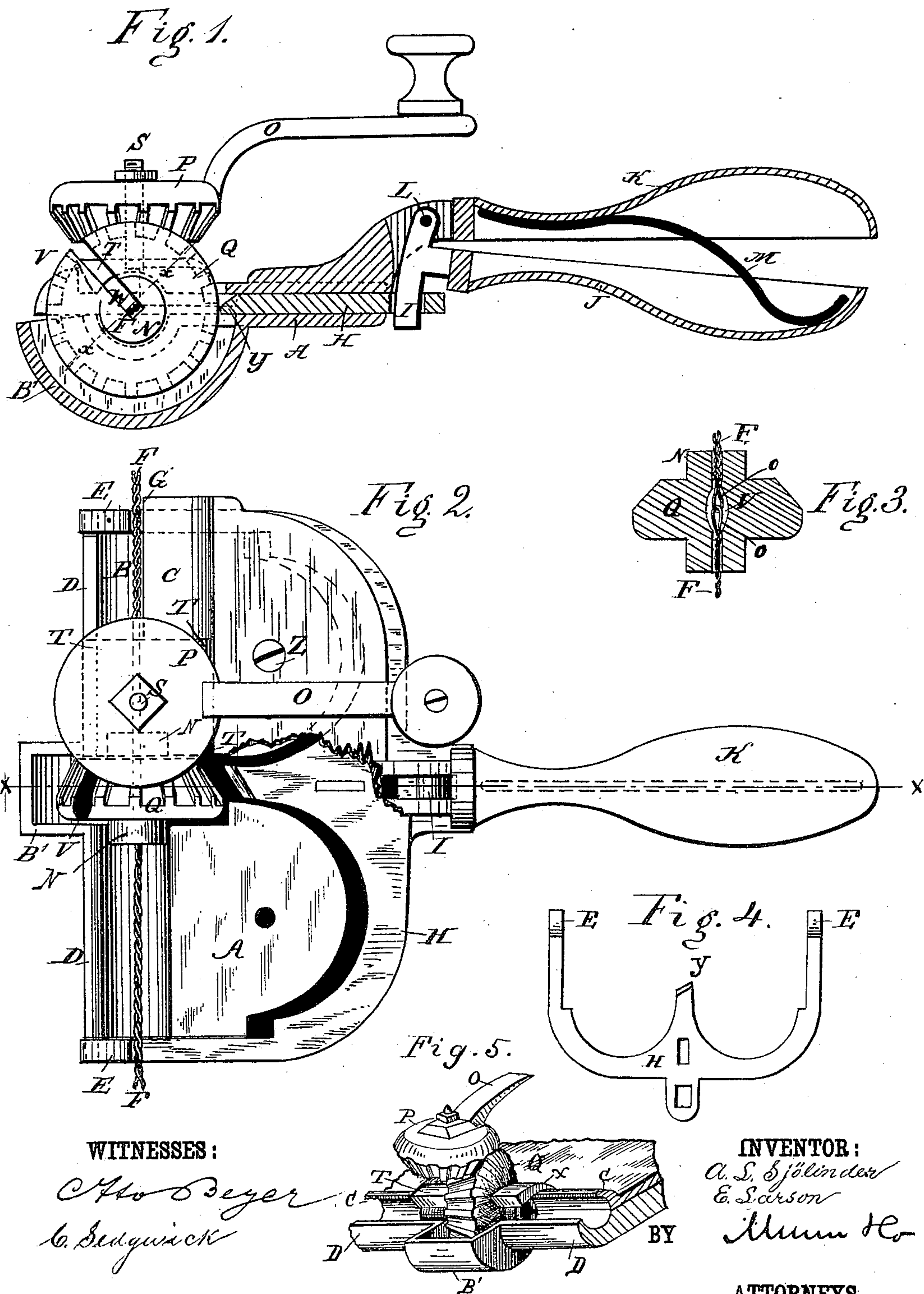
(Model.)

A. L. SJÖLINDER & E. LARSON.

WIRE TWISTER.

No. 270,494.

Patented Jan. 9, 1883.



UNITED STATES PATENT OFFICE.

AXEL L. SJÖLINDER AND EMANUEL LARSON, OF SOUTH PUEBLO, COLO.

WIRE-TWISTER.

SPECIFICATION forming part of Letters Patent No. 270,494, dated January 9, 1883.

Application filed April 26, 1882. (Model.)

To all whom it may concern:

Be it known that we, AXEL L. SJÖLINDER and EMANUEL LARSON, both of South Pueblo, in the county of Pueblo and State of Colorado, have invented a new and Improved Wire-Twister, of which the following is a full, clear, and exact description.

Our invention relates to improvements in wire-twisters; and it consists in the peculiar construction and arrangement of parts, as hereinafter more fully set forth.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional elevation of the said improved wire-twister, taken on the line *x x* of Fig. 2. Fig. 2 is a plan view, partly broken away. Fig. 3 is a section of twister on line *x x* of Fig. 1. Fig. 4 is a plan view of the sliding plate, and Fig. 5 is a detail view.

A represents a base-plate having a concave channel, B, along one edge, inclosed about three quarters of its circumference by lips C D. E E are jaws sliding on the base-plate A for gripping the wire F against the shoulders G, said jaws being connected to the sliding plate H, fitted in a slot of the base-plate A and connected to elbow I of the lever-latch J, forming part of the handle K, said lever-latch being pivoted to the fixed part of handle K at L, and having a spring, M, applied to it in the cavities of J and K, and adjusted for sliding jaws E open.

N is a radially and longitudinally slotted cylindrical twister, located in the channel B, about midway between jaws E, to receive the wires F, as shown, and twist them together by being revolved by the hand-crank O and bevel-wheels P and Q, the driving-wheel P being mounted on a stud-pin, S, substantially fixed to a boss, T, of the base-plate, said boss being mainly represented by dotted lines in Figs. 1 and 2, but is partly seen in full lines through the slot V of wheel Q, said slot being to permit the wires F being entered into and issued out of slot W of twister N. The wheel Q is mounted on the twister, so as to turn it, either being keyed on or made together with it, the boss T and a cap, X, overhanging the lips C of the channel B to serve for caps to confine the ends of the twister in its bearings; but

said caps stop sufficiently short of the lip D to leave space for the insertion and removal of the wires to be twisted. The slot W of the twister and U of wheel Q are widened a little midway between the ends of the twister to increase the breadth and sufficiently the width of the loops of two wires linked and twisted together, which, when twisted, might otherwise bind in the twister and prevent ready delivery. The wires are prevented from slipping in the slot of the twister and failing to turn with the twister by the loops of wire being a little wider near where the two loops are connected together than the slot is, and resting obliquely therein. The slide H is arranged with respect to wheel Q so that its bit Y will enter a notch between the teeth of said wheel, when spring M throws latch J back and locks the wheel and holds the notches V and W in the position for discharging the twisted wire out of the jaws and the channel B. The base A is constructed in two parts that are fastened together by screws Z, to enable the sliding plate H to be applied in the space between said parts, also to enable the twister N to be applied between the bottom of channel B and the caps X and T, by which it is kept in position. The channel B is deepened at B' to make room for the wheel Q.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

1. The base-plate A, having handle K, shoulders G, and channel B, and the sliding plate H, having lever-latch J and jaws E, combined and arranged substantially as described.

2. The combination of base A, sliding plate H, bit Y, wheels P and Q, the jaws E G, and the twister N, substantially as described.

3. In combination with twister N, the base-plate constructed in two parts, the lower or bottom part having the channel B, and the upper part having shoulders G, caps T X, and handle K, said parts being bolted together with the plate H fixed adjustably between them, and provided with the shoulder E, substantially as described.

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Witnesses:

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