B. R. SPRINGSTEEN.

TOOLS FOR BENDING BALE HOOKS.

No. 170,026. Patented Nov. 16, 1875.

Fig: 1.

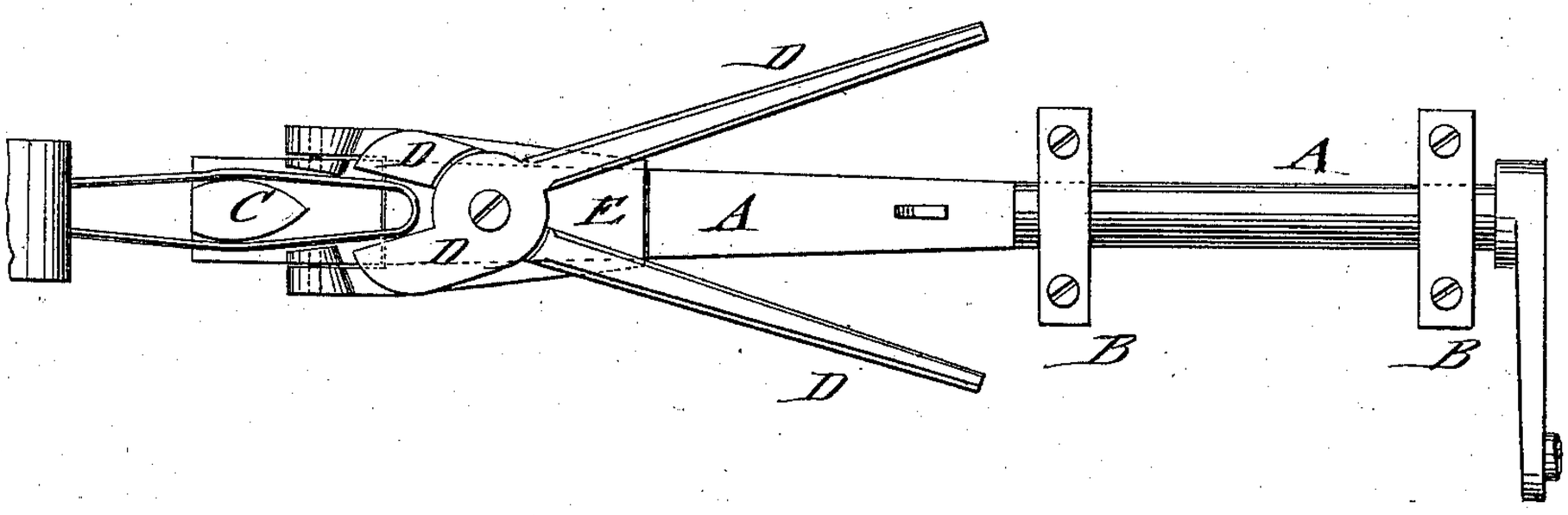



Fig: 2.

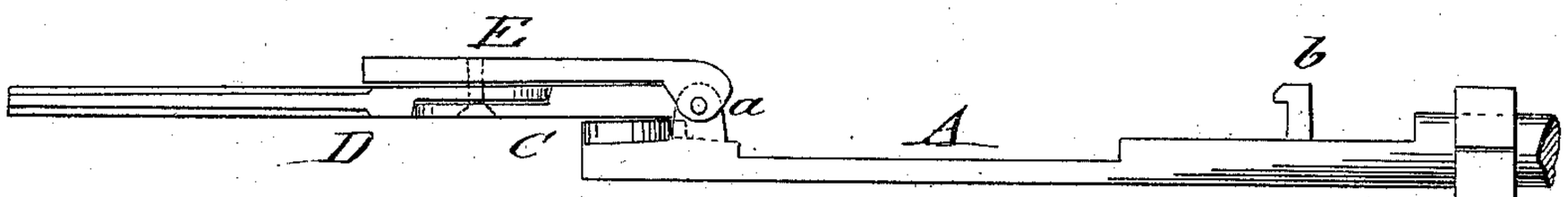



Fig: 3

Fig: 4.

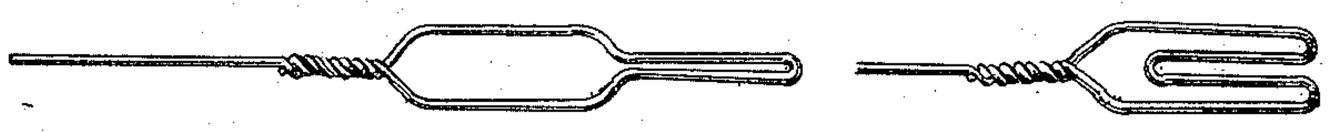
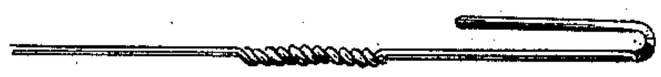


Fig: 5



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# UNITED STATES PATENT OFFICE.

BENJAMIN R. SPRINGSTEEN, OF SCHODACK LANDING, NEW YORK.

## IMPROVEMENT IN TOOLS FOR BENDING BALE-HOOKS.

Specification forming part of Letters Patent No. **170,026**, dated November 16, 1875; application filed September 25, 1875.

*To all whom it may concern:*

Be it known that I, BENJAMIN R. SPRINGSTEEN, of Schodack Landing, in the county of Rensselaer and State of New York, have invented a new and Improved Device for Bending Bale-Hooks, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view of my device for bending bale-hooks, being in position to give the first bending to the wire blank. Fig. 2 is a side view of my device, shown as giving the final bending to the hook; and Figs. 3, 4, and 5 are top and side views of a wire bale-hook in different stages of construction.

Similar letters of reference indicate corresponding parts.

The object of my invention is to produce an improved device or tool for manufacturing, in rapid and convenient manner, the wire hooks used by farmers for baling hay, straw, &c.; and the invention consists of a device capable of rotation, for twisting the wire blank, and provided with a raised shaping-piece, and bending-jaws back of the same, which are pivoted to a base-plate that is hinged to the main piece, to be swung over the raised part for imparting the final hook shape.

In the drawing, A represents the main piece or stock of my improved device or tool for bending bale-hooks, which stock is journaled into a stationary box or standards, B, for being rotated by a crank at the end. The opposite end of stock A is provided with a raised shaping part, C, on which the U-shaped wire blank is placed to be griped firmly at the ends of the legs by a vise. Clamping-jaws D are pivoted to a base-plate, E, which is hinged to stock A by pivot-pins *a*, near the raised part C. The jaws D are closed by their handles, which may be locked, by any suitable fastening device, to the hook *b* of stock A when in closed position.

On closing the jaws the curved end of the wire blank is pressed together, so that the close parallel running of the wire at the part acted on is produced, as shown in Figs. 1 and 3. When the jaws are locked the stock is turned by the crank, which twists the ends of the wire blank in front of the raised part C. The base-plate E, with its jaws D, is then swung on the pivots *a* over the raised part, and the clamped end of the wire piece bent over the forming-piece C, producing thereby the hook of the same, as shown in Figs. 4 and 5. The jaws are then swung back, releasing the completed hook, which is then taken out of the vise, and a new wire blank placed on the forming part and into the vise, after which the twisting and bending operations are repeated. The baling-hooks may thus be turned out in a rapid and convenient manner, with a regular shape, superior to those made by hand.

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

A device or implement for bending wire into bale-hooks, made of rotating stock, with a raised shaping-piece at one end, and a hinged base-plate with clamping-jaws pivoted to said base, for twisting and bending the wire into hooks of the required shape, substantially in the manner and for the purpose set forth.

BENJAMIN R. SPRINGSTEEN.

Witnesses:

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