(No Model.)

R. C. BOLON.

WIRE STRETCHER.

No. 554,765. Patented Feb. 18, 1896.

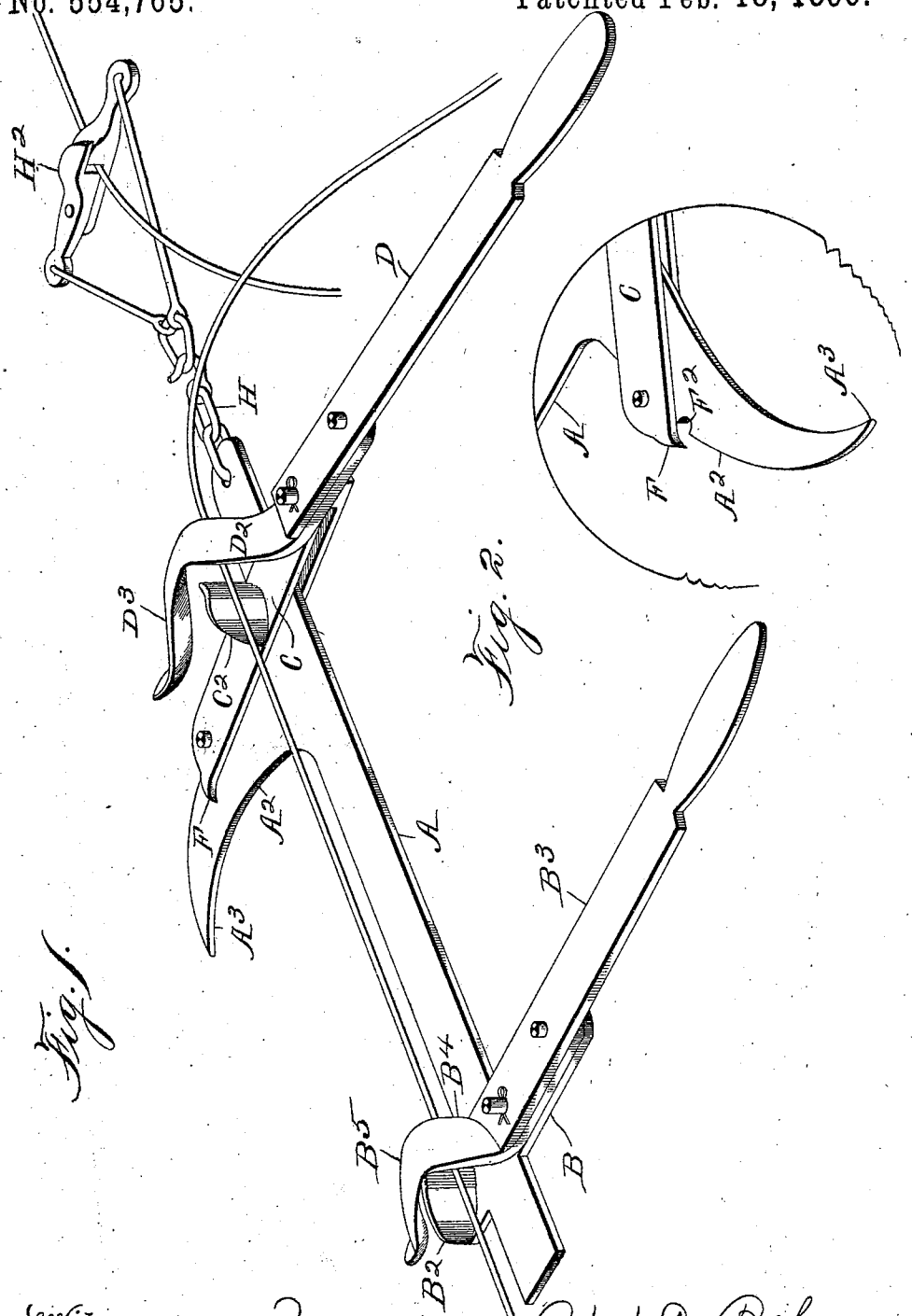

Fig. 1.

Fig. 2.

Witnesses:
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UNITED STATES PATENT OFFICE.

ROBERT C. BOLON, OF LINEVILLE, IOWA.

WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 554,765, dated February 18, 1896.

Application filed June 4, 1895. Serial No. 551,693. (No model.)

To all whom it may concern:

Be it known that I, ROBERT C. BOLON, a citizen of the United States of America, residing at Lineville, in the county of Wayne and State of Iowa, have invented a new and useful Combined Wire Stretcher, Splicer, Cutter, and Staple-Puller, of which the following is a specification.

The object of this invention is to produce a simple, strong, and durable device adapted to stretch a wire beyond the post to which it is attached and to grip the wire and stretch it with one movement of the operating-lever, to connect an eccentric-clutch therewith, whereby the device may be used as a wire-splicer to operate without engaging a post, and further to provide means for pulling staples and cutting wire.

My invention consists in certain details in the construction, arrangement and combination of the various parts of the device, as hereinafter set forth, pointed out in the claims and illustrated in the accompanying drawings, in which—

Figure 1 shows the complete device in perspective in position for either stretching or splicing wire. Fig. 2 is a detail view showing the staple-puller and wire-cutting device.

Referring to the accompanying drawings, the reference-letter A is used to indicate a straight flat metal bar having a curved lateral extension A^2 adapted to engage a post or to have its tapered end A^3 enter under a staple to pull the same.

At the rear end of the device is a cross-arm B projecting laterally from both sides. B^2 is a stationary segmental upright on one end of said cross-arm, and B^3 is a lever fulcrumed to the opposite end of the cross-arm and having a cam-face B^4 adapted to engage the upright B^2 and a lip B^5 arranged to overlap said upright and prevent a wire from moving upwardly above the upright B^2 when clamped between the two surfaces.

C indicates an arm slotted to admit the bar A and pivoted at its one end to the lateral extension A^2 and having formed integral with its top face a segmental upright C^2.

D indicates a lever fulcrumed to the free end of the arm C and having formed on its inner end an upright cam-surface D^2 and a lip D^3 adapted to overlap the upright C^2. At one end of said arm beyond its pivotal point is a curved projection F having a sharpened lower edge, and F^2 is a notch formed in the side of the arm C adapted to receive a wire and sharpened at its upper edge to form, in connection with the projection F, a wire-cutting device.

H indicates a chain secured to the end of the bar A opposite from the eccentric wire-clutch hereinbefore described, and H^2 is an eccentric wire-clutching device of common construction detachably connected with said chain.

In practical use if it is desired to stretch a fence-wire to a post the hook B^2 is passed around the post or pressed into a flat upright, and the lever D and arm C moved toward the end of the bar in the direction of the wire to be stretched. The wire is then admitted between the segmental upright C^2 and cam D^2 and the lever D moved forwardly to clamp the wire therein. A further movement of the lever in the same direction will stretch the wire, and when moved to its farthest limit the wire is clamped by the device on the end of the bar A and held until said lever D is moved rearwardly and a new hold on the wire is obtained.

To splice wire the eccentric clamping device H is connected with one end of the wire and the other engaged by the eccentric on the bar A and drawn toward said wire in the same manner as if the device were attached to a post.

Having thus described my invention, what I claim as new therein, and desire to secure by Letters Patent of the United States therefor, is—

1. An improved wire-stretcher, comprising a bar having a curved lateral extension at one end, terminating in a point adapted for pulling staples and provided with a notch on its convex edge for cutting wire, an arm pivoted to the said extension and extended across the bar, and terminating with a curved point having a cutting-edge, an upright on its top surface and a lever fulcrumed to its free end and having an eccentric on its inner end to engage said upright, and a wire-clutching device on the other end of said bar, for the purposes stated.

2. An improved wire stretcher, splicer, cutter and staple-puller comprising a flat bar, a curved lateral extension tapering to a point adapted for pulling staples and provided with

a notch in its convex edge for cutting wire, an arm pivoted to said extension and provided with a projecting point having a cutting-edge, an upright on top of said arm, a lever fulcrumed to the opposite end of the arm and having an eccentric on its top, an eccentric clutch device on the opposite end of the bar, and a clutch device detachably connected with the end of the bar beyond the lateral extension, all arranged and combined substantially as and for the purposes stated.

ROBERT C. BOLON.

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