(No Model.)

C. G. MITCHELL.

STAPLE EXTRACTOR.

No. 602,911. Patented Apr. 26, 1898.

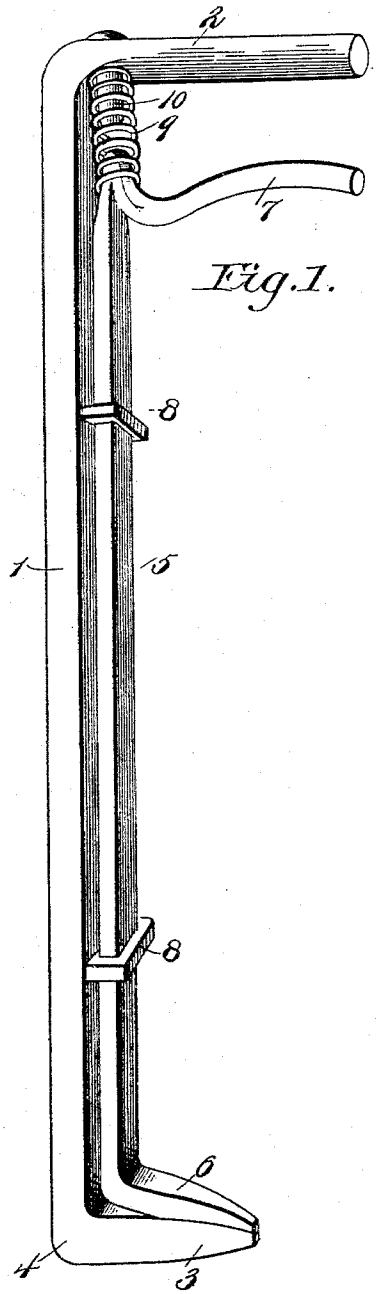


Fig. 1.

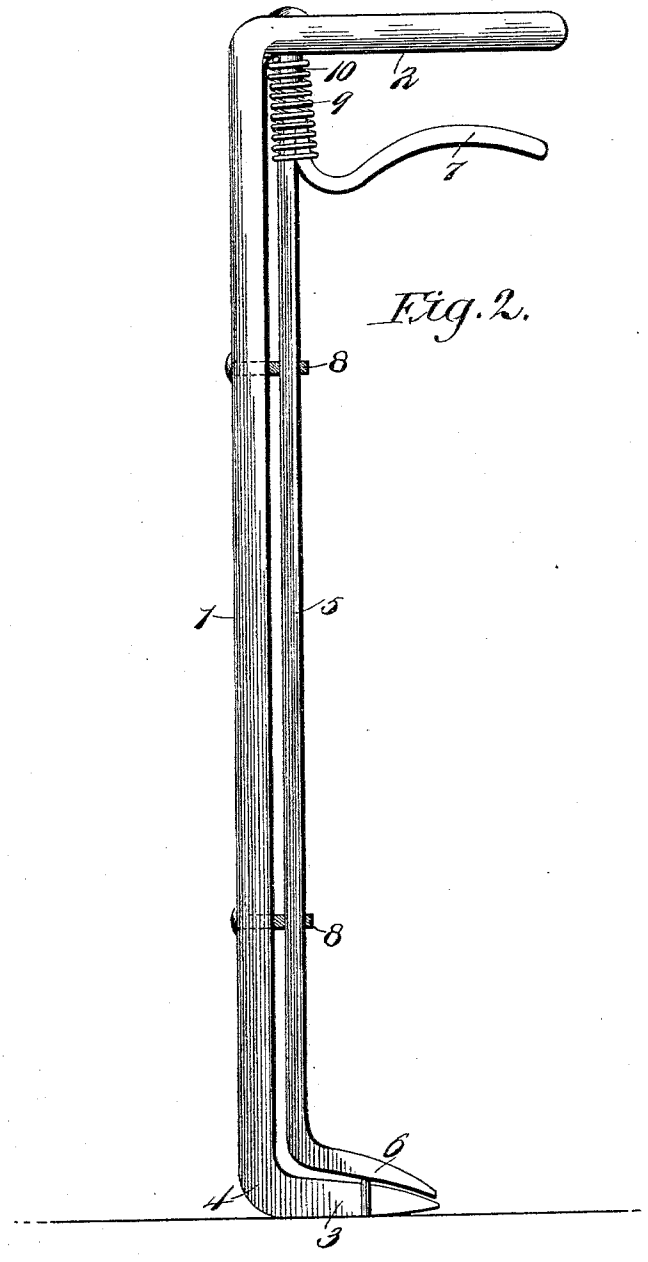


Fig. 2.

Inventor

Claude G. Mitchell.

Witnesses

R. A. Shepard.

J. F. J. Riley

By his Attorneys,

C. A. Snow & Co.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CLAUDE G. MITCHELL, OF CHRISMAN, ILLINOIS, ASSIGNOR OF ONE-HALF TO CHANDLER MITCHELL, OF SAME PLACE.

STAPLE-EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 602,911, dated April 26, 1898.

Application filed July 8, 1897. Serial No. 643,878. (No model.)

To all whom it may concern:

Be it known that I, CLAUDE G. MITCHELL, a citizen of the United States, residing at Chrisman, in the county of Edgar and State of Illinois, have invented a new and useful Staple-Extractor, of which the following is a specification.

The invention relates to improvements in staple-extractors.

The object of the present invention is to improve the construction of staple-extractors and to provide a simple, strong, and efficient device capable of readily extracting staples from a fence-post and adapted to hold the staples while withdrawing them to prevent them from being lost.

A further object of the invention is to provide a staple-extractor which will be capable of withdrawing a staple without injuring the same, so that staples may be again used in fence constructions.

The invention consists in the construction and novel combination and arrangement of parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a staple-extractor constructed in accordance with this invention. Fig. 2 is a side elevation, partly in section, the device being arranged for extracting a staple.

Like numerals of reference designate corresponding parts in both figures of the drawings.

1 designates a lever consisting of a straight bar of metal provided at one end with a handle 2 and having at its other end a staple-engaging arm 3, which tapers to a point and which extends from the same side of the lever as the handle 2. The handle 2 and the arm 3 are preferably formed integral with the bar 1 and are constructed by bending the ends thereof at right angles and shaping them in the form shown.

The tapering staple-engaging arm 3 is adapted to be readily driven into the eye of a staple, which is readily extracted from a fence-post by using the heel or angle 4 at the inner terminus of the arm 3 as a fulcrum and partially oscillating the lever to swing the arm 3 outward.

In order to hold the staple to the device after it has been extracted to prevent it from being lost, a clamping-bar 5 is employed and consists of a straight body portion, a clamping-arm 6, and a handle 7. The clamping-bar, which is substantially the same shape as the lever, is arranged within the same and is mounted in guides 8, located at the inner face of the body portion of the lever 1 and consisting of perforated blocks having shanks secured to the lever. The handle 7 of the clamping-bar is slightly curved and is adapted to be grasped by the operator simultaneously with the handle 2, so that the operator by gripping the device may withdraw the clamping-bar against the action of a spring 9 to carry the clamping-arm 6 away from the staple-engaging arm 3. When the arms 3 and 6 are separated, the arm 3 is driven into the staple and the handle 7 is released to enable the spring 9 to act and cause the staple to be firmly clamped between the said arms 3 and 6. The staple may then be extracted without liability of its becoming separated from the device, and it is not injured by being withdrawn, so that it may be again used.

The spiral spring, which is interposed between the handles 2 and 7, has one end arranged on a stud 10 and its other end engaging the adjacent end of the clamping-bar 5, the handle being bent inward or forward, as shown, to provide a point or projection for engaging the spring.

The advantages of the invention are as follows: The staple-extractor is simple, strong, and durable, and it is adapted to withdraw a staple from a fence-post without injuring it. The clamping-bar firmly engages a staple and prevents the same from becoming separated from the device while it is being extracted, so that staples will not be lost in removing them from fence-posts.

What I claim is—

1. A staple-extractor comprising a lever provided at one end with a staple-engaging arm, and a spring-actuated clamping-bar slidingly mounted in suitable guides of the lever, and capable of a limited movement longitudinally thereof, said clamping-bar being provided with a clamping-arm arranged adjacent to the staple-engaging arm and adapted to

clamp a staple to prevent the same from becoming separated from the device during the extracting operation, substantially as described.

2. A staple-extractor comprising a lever provided at one end with a handle and at its other end with an arm, said handle and arm extending from the same side of the lever, a clamping-bar disposed longitudinally of the lever in suitable guides thereof and capable of a limited sliding movement lengthwise of the same, said clamping-bar being provided at its ends with a handle and a clamping-arm arranged adjacent to the inner sides of the staple-engaging arm and the handle of the lever, and a spring for holding the clamping-arm in engagement with the staple, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CLAUDE G. MITCHELL.

Witnesses:
CHAS. W. MITCHELL,
CHANDLER MITCHELL.