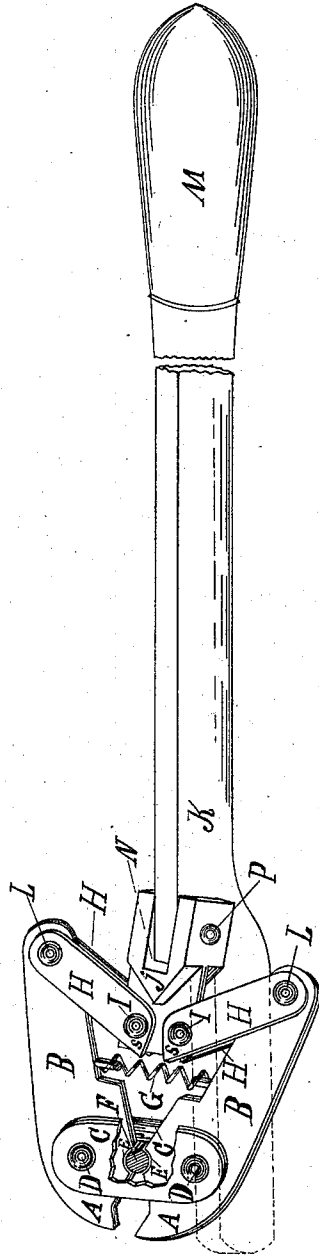


(No Model.)

J. T. POMEROY.  
FENCE STAPLE EXTRACTOR.

No. 470,595.

Patented Mar. 8, 1892.



Witnesses.  
*John Spencer*  
*Edwin Hain*

Inventor.  
*J. T. Pomroy*

# UNITED STATES PATENT OFFICE.

JULIUS TAYLOR POMEROY, OF EDGERTON, WISCONSIN.

## FENCE-STAPLE EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 470,595, dated March 8, 1892.

Application filed February 13, 1891. Serial No. 381,398. (No model.)

*To all whom it may concern:*

Be it known that I, JULIUS TAYLOR POMEROY, of Edgerton, in the county of Rock and State of Wisconsin, have invented a new and  
5 Improved Fence-Staple Extractor, of which the following is a full, clear, and exact description.

My invention relates to improvements in fence-staple extractors; and the object of my  
10 invention is to provide a simple and efficient device that will quickly and easily extract fence-staples without damage to the fence-wire or the staples. I obtain these results by the combination, with nippers, of a toggle-  
15 joint and lever, as illustrated in the accompanying drawing, which is a perspective view of said device.

The nippers have steel jaws A A, suitably formed for grasping the staples and have  
20 short but heavy arms B B. The jaws are united by two solid flat links C C, one above and the other below the jaws, which are pivoted near their outer ends to the center of the jaws at D D. On the inner faces of the  
25 jaws and in line with the pivots and opposite to each other are semicircular recesses E E, the two forming a cylindrical hole through the pair, into which a metal cylinder F is placed to hold the jaws in proper relative  
30 positions. A coil wire spring G extends between the nipper-arms and forces them apart for the purpose of closing the jaws.

The toggle-joint is composed of five solid flat links, four of which H H H H are pivoted  
35 at their inner ends in pairs at I I, one on the upper side and the other on the under side of the front end of the fifth link j. Said fifth link is a solid flat link at its front end and slotted at its rear end to receive the lever K.  
40 Each pair of links is pivoted at its outer ends to the outer ends of the nipper-arms L L, one on the upper side and one on the under side of each nipper-arm. Upon the inner ends at the front sides of said toggle-links  
45 acute angles S S are formed for the purpose hereinafter specified. The lever K K is a bar of suitable length provided with a handle at the rear end M and bent at an angle near

the front end where it enters the slot N in the fifth link j and is pivoted thereto at P. 50

The device is operated as follows: The right hand grasps the handle of the lever, the left hand clasps around the nipper-arms and presses them together, thus opening the jaws for the reception of the staple. The jaws are  
55 then placed one on either side of the staple, the left hand releases its grasp, and the coil-spring forces apart the nipper-arms, causing the jaws to grip the staple. The front end of the lever is now brought in contact with the  
60 fence-post and the handle borne down upon. The force thus exerted extends through the link j to the toggle-joint, tending to straighten the links and spread the nipper-arms and fixing the jaws into the staple. The force  
65 serves a double purpose, that of extracting the staple and at the same time to increase and secure the grip upon the staple. The grip increases with the extracting power until the acute angles upon the inner ends of  
70 the opposing toggle-links meet. The extracting force may be continued until the staple is removed.

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

1. In a fence-staple extractor, the combination, with nippers, of toggle-joint and lever, as shown, and for the purpose specified.

2. In a fence-staple extractor, the combination, with nippers, of toggle-joint and lever, the opposing toggle-links having formed  
80 on their inner ends and front sides acute angles S S, as shown, and for the purpose specified. 85

3. In a fence-staple extractor, the combination, with nippers, of toggle-joint and lever, the outer ends of toggle-links pivoted to the outer ends of nipper-arms L L, the fifth link of toggle-joint pivoted at the slotted end  
90 to the lever P, the lever bent at an angle, as shown, and for the purpose specified.

JULIUS TAYLOR POMEROY.

Witnesses:

J. W. LINDLEY,  
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