No. 813,223. PATENTED FEB. 20, 1906.

J. F. LOREMAN.

SPIKE PULLER.

APPLICATION FILED AUG. 9, 1905.

Fig. 1

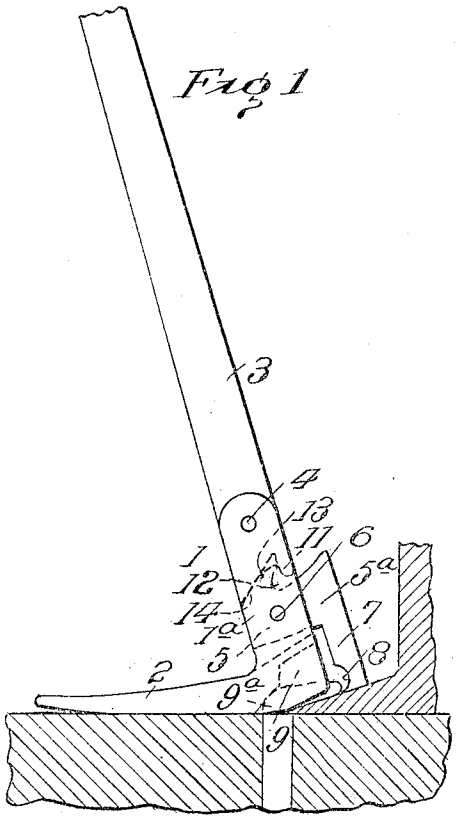


Fig. 2

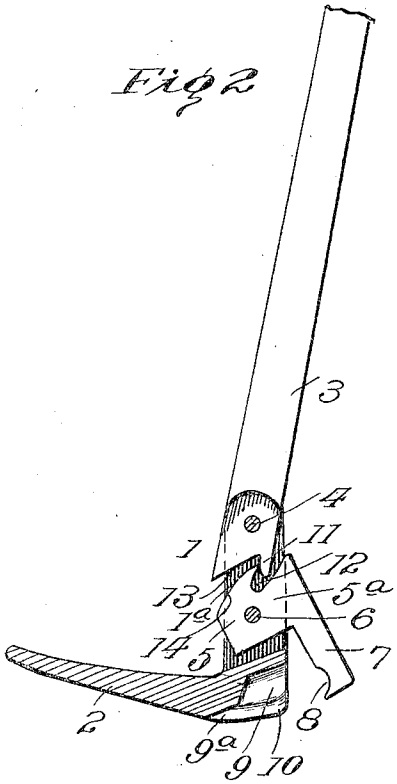
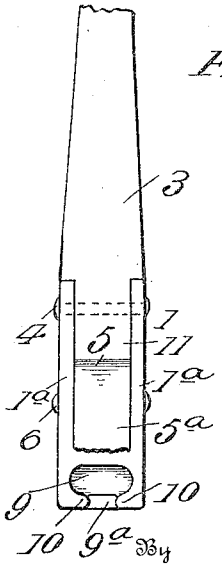


Fig. 3.



Witnesses

W. V. Woodson.

T. H. Johnston.

Inventor

James F. Loreman.

By

Thos. A. Macey. Attorneys

UNITED STATES PATENT OFFICE.

JAMES FRANKLAN LOREMAN, OF CRISFIELD, MARYLAND.

SPIKE-PULLER.

No. 813,223. Specification of Letters Patent. Patented Feb. 20, 1906.

Application filed August 9, 1905. Serial No. 273,434.

To all whom it may concern:

Be it known that I, JAMES FRANKLAN LOREMAN, a citizen of the United States, residing at Crisfield, in the county of Somerset and State of Maryland, have invented certain new and useful Improvements in Spike-Pullers, of which the following is a specification.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings, in which—

Figure 1 is a side elevation of a device embodying the invention. Fig. 2 is a vertical sectional view showing the operating-lever in the position assumed thereby after having actuated the pivoted jaw member. Fig. 3 is a rear elevation of the invention.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

This invention comprises a novel construction of spike-puller, the invention being particularly designed for extracting spikes or similar headed fastenings from parts in which they are driven.

In the drawings the numeral 1 designates a stock or base, which comprises the spaced sides 1^a and the laterally-extending foot 2, integrally formed with the lower extremities of the sides aforesaid. Between the sides 1^a of the stock of the puller and pivoted thereto is a hand-lever 3, a pivot 4 attaching said lever to the stock 1, passing through the upper portions of the sides 1^a of said stock. Also mounted between the sides 1^a of the stock 1 is a pivoted jaw member 5, which comprises the body 5^a, pivoted at 6 between the members 1^a, the body 5^a of the jaw member being provided with an integral downwardly-projecting jaw 7. The jaw 7 is recessed upon its inner side and near its lower extremity, as shown at 8, to facilitate the gripping action of said jaw against the side of the fastening, such as a spike or the like. The jaw 7 is adapted to coact with the lower end portion of the stock 1 in the actual operation of the invention, and said lower end of the stock is formed with a head-receiving socket 9, which extends inwardly from the side thereof opposite that from which the foot 2 projects. The socket 9 is of peculiar formation, being of a shape adapted particularly to receive the head of a spike, and the lower portion of said socket is contracted, as shown at 9^a, by reason of the provision of projecting ribs 10, which extend inwardly from opposite sides of the socket at its lower portion. The contracted portion 9^a of the socket 9 is advantageous in that the socket is made to fit snugly about the head of a spike when this head has been forced thereinto, thus facilitating the extracting operation.

The lever 3 is operatively connected for operation of the jaw member 5, and for this purpose the lower extremity of said lever is formed with a downwardly-projecting toe extension 11, which fits in a recess 12, formed between the inner and outer sides of the jaw member 5 at the upper end of the latter. The extension 11 interlocks in the recess 12, and when the lever 3 is moved in one direction said extension will bear against a side of the recess and tilt the member 5^a outwardly preparatory to engaging the jaw 7 thereof with the spike or fastening to be extracted on movement of the lever in the opposite direction. The lever 3 is not only formed with the toe extension 11, but its lower end is formed with an integral cam extension 13, which is adapted to bear against an inclined cam-surface 14, provided on the inner side of the member 5^a, and when the lever 3 is forced toward the side of the stock having the foot 2 the cam extension 13 will engage with the cam-surface 14 and will impart pivotal movement to the body 5^a of the jaw member 5, causing the jaw 7 to move toward the socket 9.

In actual operation to remove a spike or like fastening the stock 1 is so disposed that the socket 9 thereof is arranged upon one side of the head of the fastening. Movement of the lever 3 toward the side of the stock from which the foot 2 projects will cause the cam member 13 to engage the surface 14 and so tilt the member 5 as to cause the jaw 7 to be forced toward the socket 9. The jaw 7 will engage the opposite side of the head of the fastening and force said head positively into the socket 9, the contracted portion 9^a of said socket engaging opposite sides of the head, so that on continued movement of the lever 3 in the same direction the stock 1 thereof will be raised on the foot 2 as a fulcrum, and the spike or fastening will be extracted in a manner which will be readily evident.

Having thus described the invention, what is claimed as new is—

A spike-puller comprising the stock 1 embodying the spaced sides 1^a, the laterally-

extending foot 2 integrally formed with the stock at the lower extremities of the sides 1^a aforesaid, the side of the stock opposite that from which the foot 2 projects, being provided at the lower end thereof with a head-receiving socket 9 contracted at its lower portion as shown at 9^a, the lever 3 pivoted at 4 between the sides 1^a of the stock, the jaw member 5 comprising the body 5^a pivoted at 6 between the sides 1^a of the stock and arranged below the lower end of the lever 3, the jaw 7 projecting downwardly from the jaw member 5 and provided with a recess 8 on its inner side, the toe extension 11 formed at the lower extremity of the lever 3, the body 5^a on the member 5 having the recess 12 to receive the toe extension 11, the said body 5^a being also formed with a cam-surface 14 at its inner side, and a cam extension 13 projecting downwardly from the lower extremity of the lever 3 and adapted to engage the cam-surface 14 on the member 5, as specified.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES FRANKLAN LOREMAN. [L. S.]

Witnesses:

JOSEPH W. DISHAROON,

WM. J. PEYTON.