No. 775,856. PATENTED NOV. 22, 1904.

J. M. RANCK, Sr.

TACK PULLER.

APPLICATION FILED APR. 11, 1903.

NO MODEL.

Fig. 1.

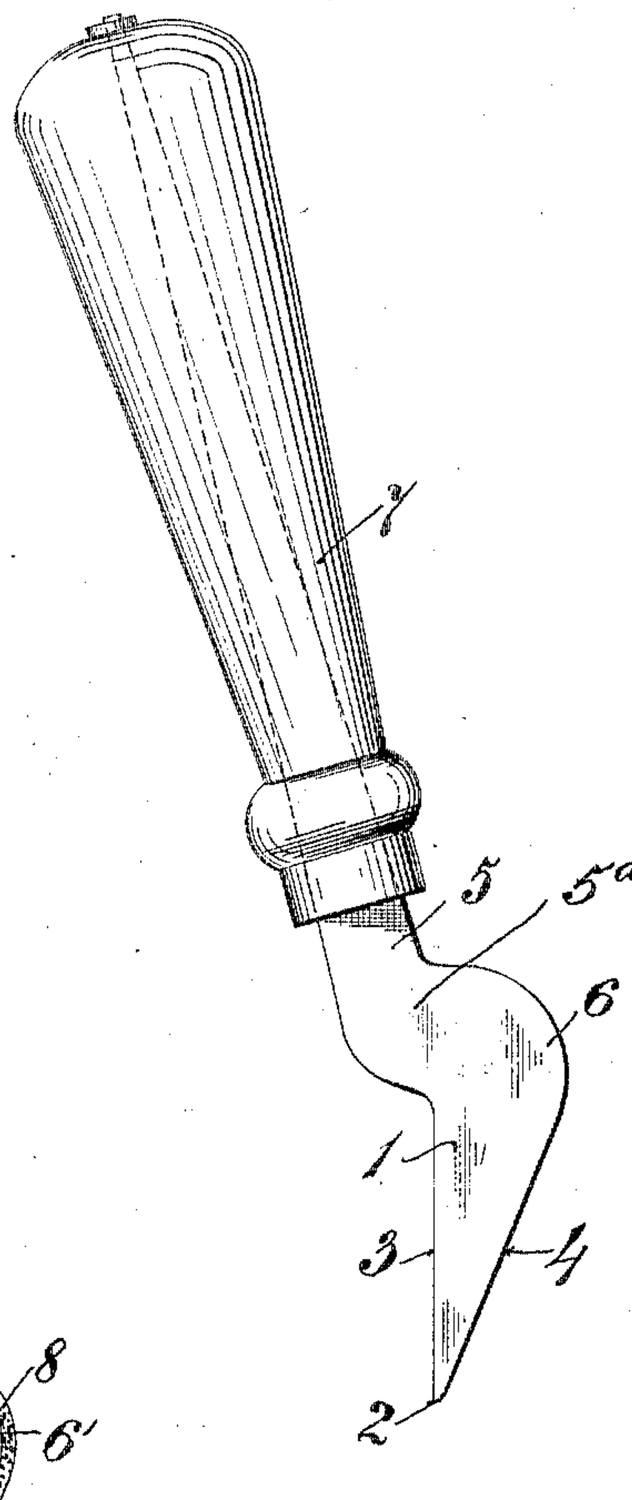


Fig. 2.

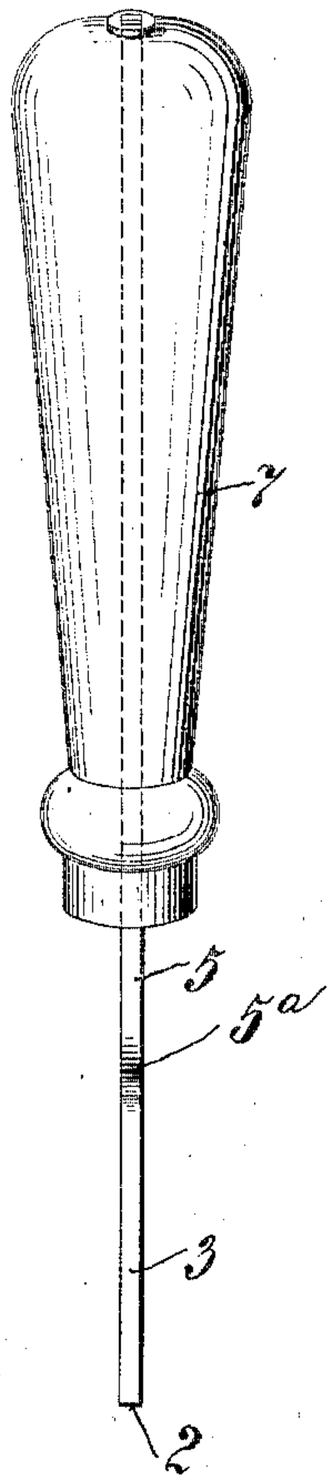


Fig. 3.

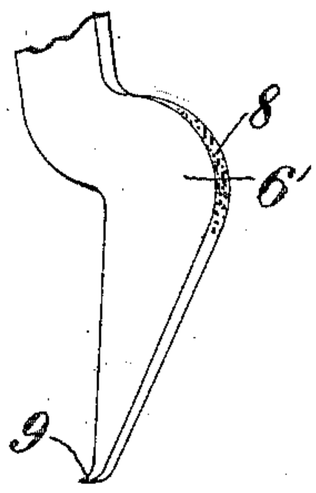
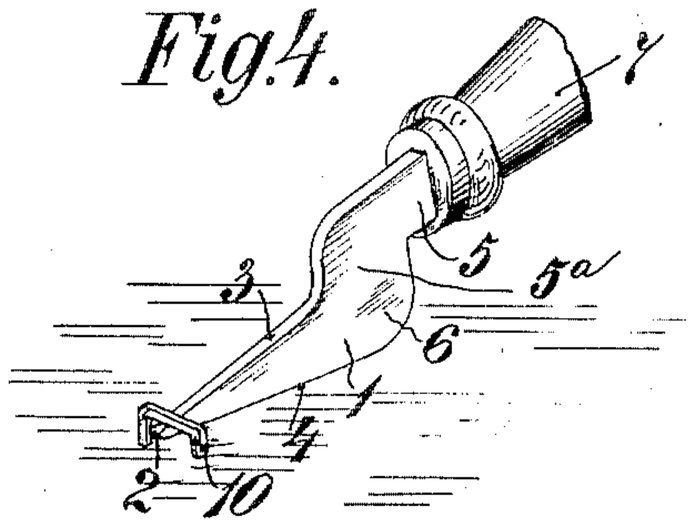


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES M. RANCK, SR., OF ALLEGHENY, PENNSYLVANIA.

TACK-PULLER.

SPECIFICATION forming part of Letters Patent No. 775,856, dated November 22, 1904.

Application filed April 11, 1903. Serial No. 152,164. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. RANCK, Sr., a citizen of the United States of America, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Tack-Pullers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in tack-pullers; and while it is primarily and particularly adapted for the pulling of "staple-tacks" yet may be employed as well for the pulling of the ordinary headed tacks.

In the pulling of what are known in the trade as "staple-tacks" it is inconvenient to extract the same from the floor or other fastening with the ordinary tack-puller, due to the fact that it is practically impossible to engage the tack-puller underneath the cross-bar of the staple-tack.

It is the primary object of my invention to overcome this difficulty and construct a tack-puller which may be advantageously used for the pulling of the staple-tacks irrespective of how close the cross-bar of the same may be driven to the material into which the prongs of the tack engage.

Briefly described, my invention comprises a blade embodying a body portion the forward portion of which is substantially triangular, said body portion having a bow or rounded heel on the lower edge back of the triangular portion of the body, with a tapering shank projecting rearwardly from the body of the blade and on a plane above the same, this shank being adapted to receive a suitable handle fastened thereto in any desired manner. The body of the tool or instrument and the shank which receives the handle are made of one piece, and may therefore be cut, stamped, or pressed out of a suitable piece of steel or other metal.

The specific construction of the device will be hereinafter more specifically described and then particularly pointed out in the appended claim, and in describing the invention in detail reference will be had to the accompanying drawings, forming a part of this application, and wherein like numerals of reference will be employed for designating like parts throughout the different views of the drawings, in which—

Figure 1 is a detail side elevation of my improved tack-puller. Fig. 2 is a detail edge view thereof. Fig. 3 is a detail perspective view of the body portion broken away from the shank, showing a modified form of construction; and Fig. 4 is a detail perspective view of the device with the handle broken away, showing the application of the tool or instrument for pulling staple-tacks.

To construct the device, I provide a piece of flat steel or other suitable metal and shape the same to form the substantially triangular forward portion to the body, this triangular portion 1 terminating in the point 2 and having its edges 3 4 diverging at substantially the same inclination with respect to the longitudinal axial center of said body. The body of the instrument and the integral shank 5 are of the same thickness. A line drawn straight through the body in line with the top edge 3 would intersect with the lower edge of the shank 5 at the joining therewith to the body, while the edge 4 of the body, which is the underneath edge, is swelled out or bowed to form the heel 6, which acts as the fulcrum when the instrument is used. The shank 5 tapers or is inclined alike on both edges toward the free end thereof, and on this shank is fitted a suitable handle 7, which may be held thereon in any suitable manner, as by a nut or by a washer placed on the protruding end of the shank, and the latter then riveted down, as shown in the present illustration. The inner end of said shank is angularly disposed, as at 5^a, so as to extend at an obtuse angle to both the triangular body portion and the remaining portion of the shank. By this construction the handle will normally occupy an inclined position with respect to the body portion of the tool and have its forward end elevated so that the hand of the operator will not come in contact with the floor during the tack-removing operation.

I may construct the rounded heel as shown

in Fig. 3, wherein this heel 6′ is shown as provided with corrugations 8 on its rounded edge, whereby to more effectually grip with the surface it is engaged with and prevent slipping, and I may also provide the triangular forward portion of the body in its upper edge, near the point thereof, with a slight depression 9, in which the cross-bar of the staple-tack will engage after the point of the instrument is inserted underneath said cross-bar.

In Fig. 4 the instrument is shown in the manner in which it is used for pulling a staple-tack 10. In use the instrument is held at an inclination such as will enable the pointed end of the body to be inserted underneath the cross-bar of the tack and the handle end then forced downwardly toward the floor. If the pointed end of the instrument has been passed under the cross-bar of the tack, the latter will be elevated as the fulcrum 6 or 6′ engages with the floor and the handle is forced down, the heel being of a depth sufficient to cause the tack to be elevated out of the floor prior to the engagement of the handle with said floor. For use on the ordinary headed tack the pointed end of the device may be inserted under the flange or head of the tack, and the latter thus readily lifted. The device is extremely simple and as the strain is all edgewise against the tool blade or body is also extremely strong and durable. As stated, the body and shank are in one piece and may be stamped or cut in one operation from a suitable piece of metal.

While I have herein shown and described the invention at length in detail as it is constructed and practiced by me, yet it will be observed that various slight changes may be made in the details of construction without departing from the general spirit of the invention.

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

A device for pulling staple-tacks, comprising a flat metal body of equal thickness throughout and having an integral rearwardly-extending tapering shank with a handle fitted thereon, the said body being substantially triangular in shape with its lower edge at an obtuse angle to the upper edge and terminating at the rear end in a rounded heel, and said upper edge of the body being in approximately a straight line with the handle whereby a longitudinal thrust of the handle tends to force the point of the body under the tack, substantially as described.

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

JAMES M. RANCK, Sr.

Witnesses:
A. M. Wilson,
E. E. Potter.