(No Model.)

L. STEINBERGER.

TOOL HANDLE.

No. 344,552. Patented June 29, 1886.

Fig. 1.

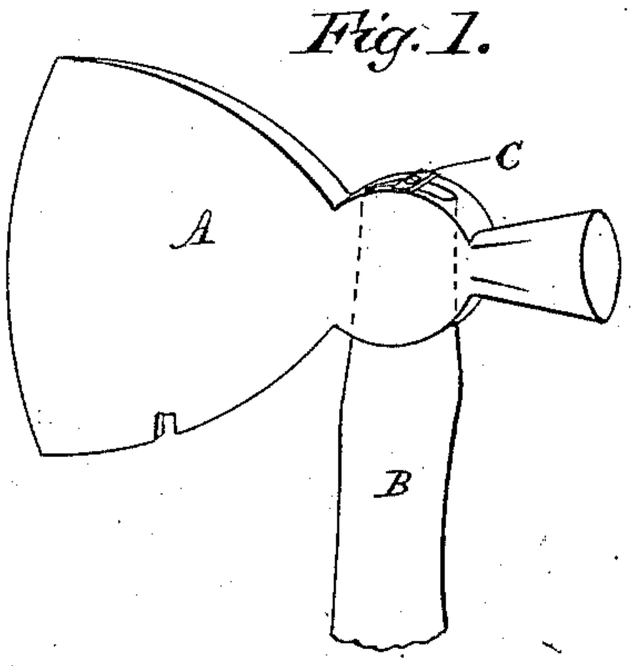


Fig. 2.

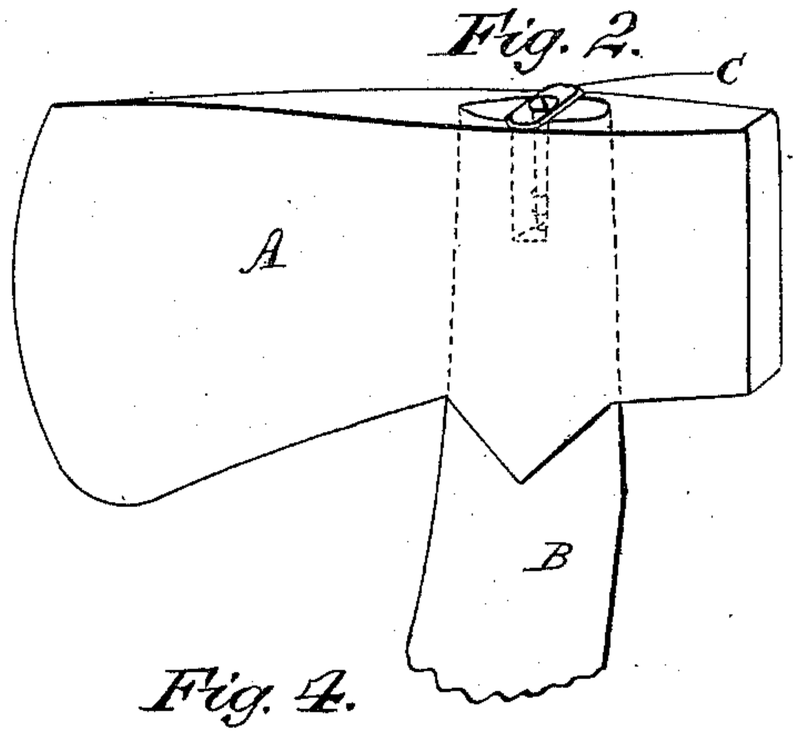


Fig. 3.

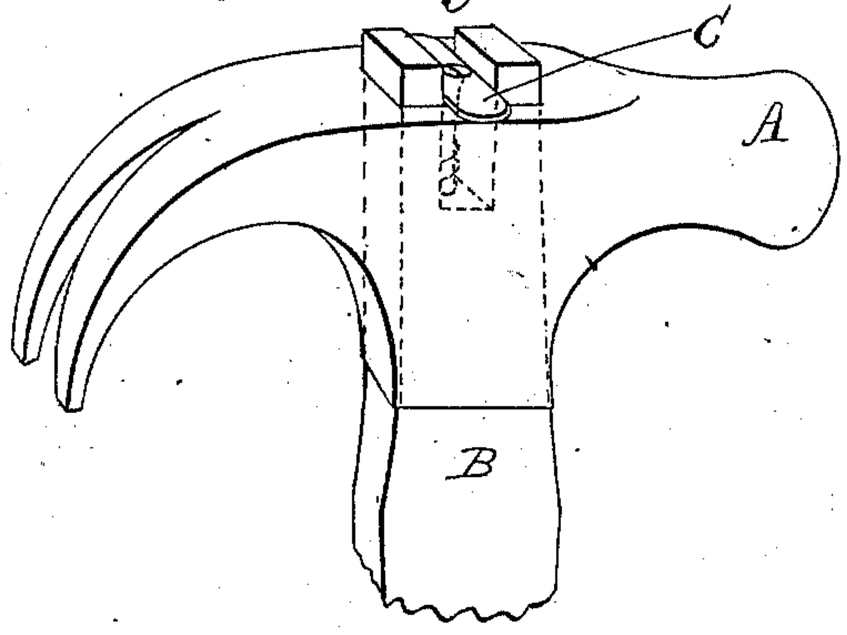


Fig. 4.

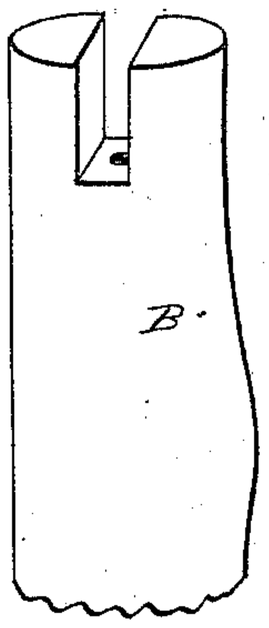


Fig. 6.

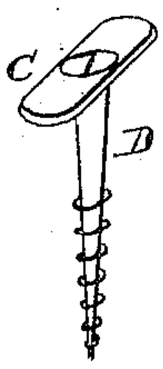


Fig. 7.

Fig. 8.

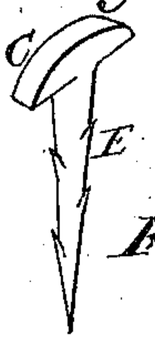


Fig. 5.

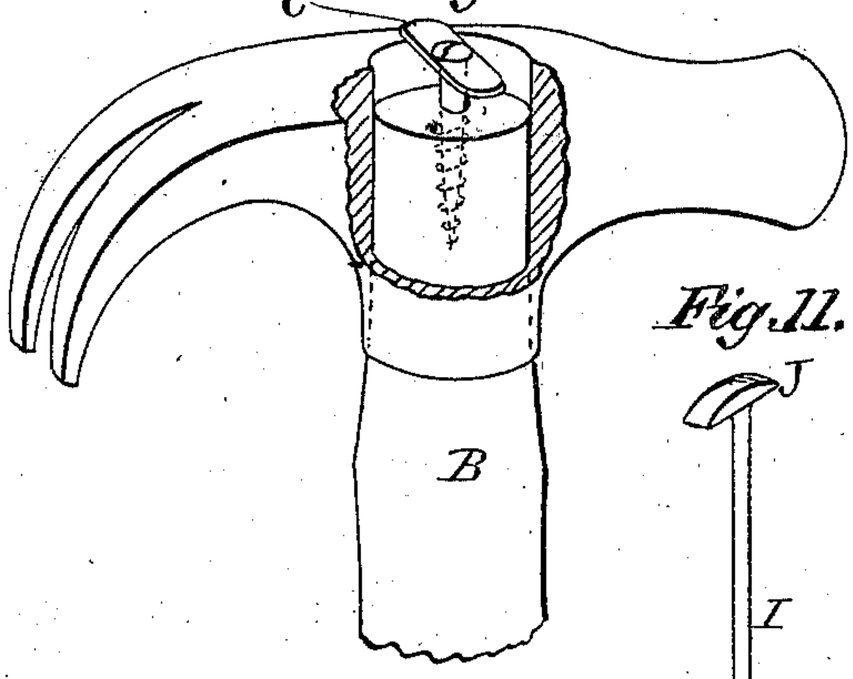


Fig. 11.

Fig. 12.

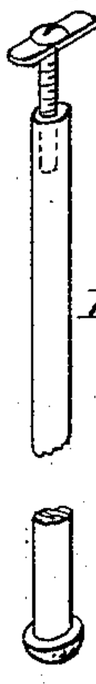


Fig. 9.

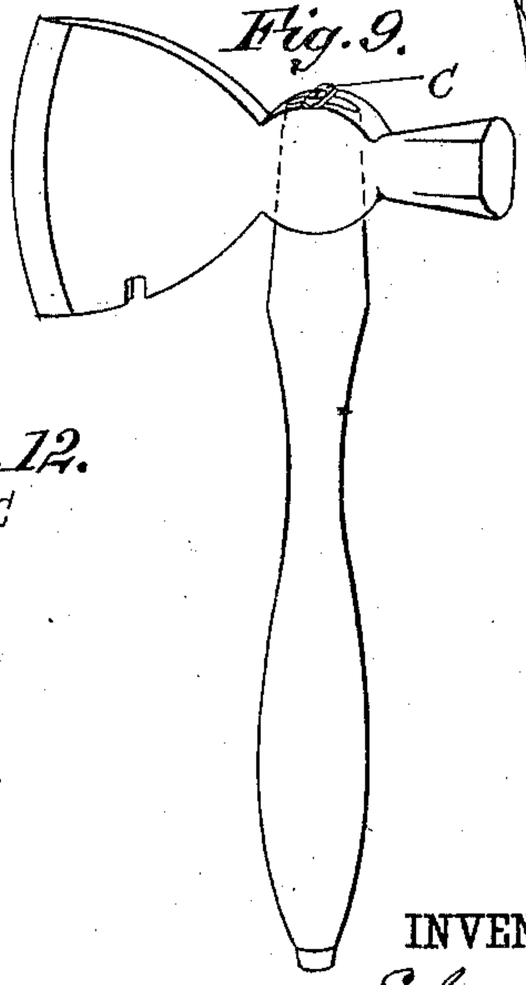
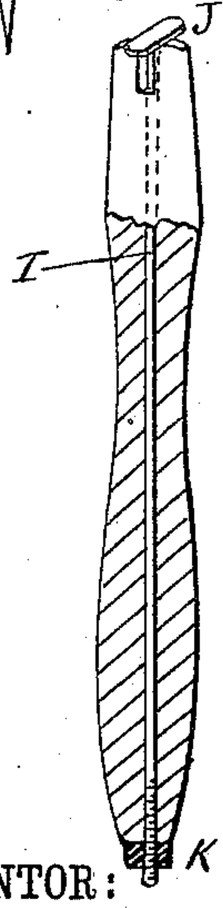


Fig. 10.



WITNESSES:

Arthur Beyer

C. Sedgwick

INVENTOR:

L. Steinberger

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

LOUIS STEINBERGER, OF NEW YORK, N. Y.

TOOL-HANDLE.

SPECIFICATION forming part of Letters Patent No. 344,552, dated June 29, 1886.

Application filed August 27, 1885. Serial No. 175,461. (No model.)

To all whom it may concern:

Be it known that I, LOUIS STEINBERGER, of the city, county, and State of New York, have invented certain new and useful Improvements in Securing and Adjusting Handles to Hammers, Axes, and other Implements, of which the following is a full, clear, and exact description.

This invention consists in the manner, substantially herein described and shown, of securing and adjusting handles to hammers, axes, and other implements by drawing the two together, and to tighten them when required, either from wear or from shrinkage.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

The twelve figures in the accompanying drawings represent my invention as applied to an ax, hammer, and hatchets.

In the various figures the ends of the handles B are tapering, and are intended to fit snugly into the eyes of the different implements, as represented. The ends of these handles are slotted centrally a distance longitudinally with the handles, to admit a cross-bar, C, between the slotted ends to rest upon the end of the implement, as shown. These cross-bars C are pierced centrally to admit tightening-screws D, which pass along the slots and enter the handles at the bottom, thus firmly securing the implements to the handles. These slots in the handles serve the purpose of permitting the cross-bars C to be drawn inwardly by the central screws to tighten the implements upon the handles when required.

In place of the cross-bars C and central screws, D, barbed nails E may be employed, if preferred, which are simply to be driven into the ends of the handles at the bottom of the slots to secure the implements to the handles and to tighten them when required.

In Figures 9 and 10 the ends of the handles are slotted for a short distance, and a rod, I, extends through the whole length of the handle, with a tightening-nut, K, to draw the head of the implement firmly upon the taper of the handle and to adjust it upon the handle when loose from any cause.

Fig. 11 represents a fragment of a rod with a solid head detached from the handle. Fig. 12 shows a mechanical modification of construction of the rod I, having a solid head on one end and a female screw to receive the male screw D.

In Fig. 3 the handle is represented as having shrunk or been worn away by use and the hammer tightened thereon by being drawn further upon the tapered end of the handle by means of the cross-bar C and central screw, D.

I am aware that various contrivances have been used to secure handles to different implements, and therefore do not claim, broadly, such invention, but desire to embrace in my application the devices substantially herein described, whereby handles may be firmly secured to different implements to which they are adapted, and subsequently tightened on the handles when required, either from wear or from shrinkage. By this construction the handles may be readily detached from the tools and applied to other implements, when desired.

In view of the state of the art it is not intended to claim a handle for hammers and other implements having a bar and screw flush with the end of the handle and wedges in the end of the handle, as such may be found in the invention patented by L. Landeker, dated June 12, 1877.

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

As a new and improved article of manufacture, a handle for hammers and other implements having a notched end, a tightening screw or rod to enter the handle centrally in the notch, a bar, C, to rest crosswise upon the hammer to draw the same down upon the handle, the two sides of the notched end passing on either side of the cross-bar C in tightening the handle, substantially as herein described and shown.

LOUIS STEINBERGER.

Witnesses:
C. SEDGWICK,
EDW. M. CLARK.