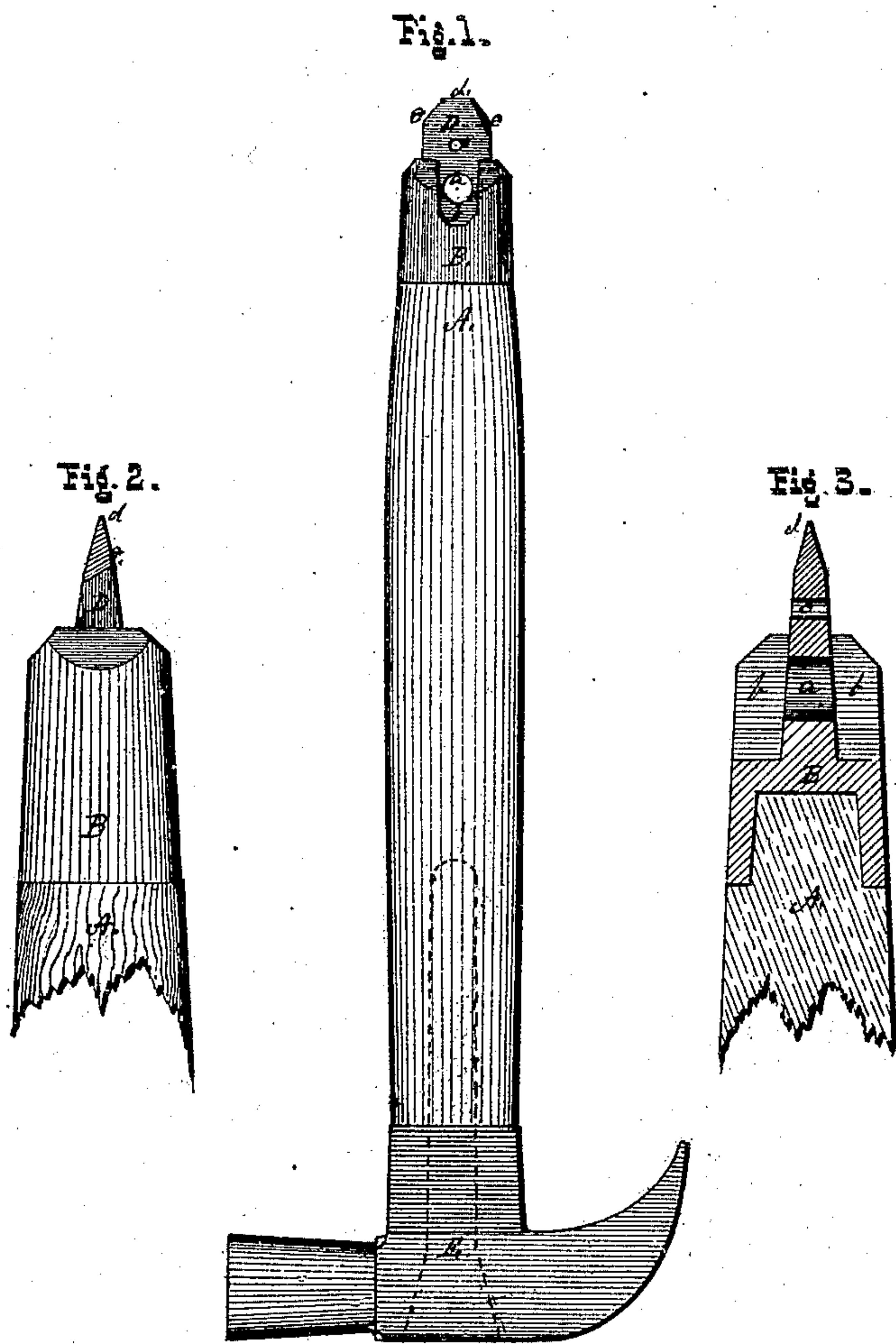


*J. P. Radley,*

*Hammer.*

*No. 99705.*

*Patented Feb. 8. 1870.*



Witnesses.

*Chas H Poole*  
*J. B. Woodruff*

Inventor.

*John P Radley*

# United States Patent Office.

JOHN P. RADLEY, OF ALBANY, NEW YORK.

Letters Patent No. 99,705, dated February 8, 1870.

## IMPROVEMENT IN HAMMERS.

The Schedule referred to in these Letters Patent and making part of the same

*To all whom it may concern:*

Be it known that I, JOHN P. RADLEY, of Albany, in the county of Albany, and State of New York, have invented certain new and useful Improvements in Hammers, Screw-Drivers, Reamer, and Wrench; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a complete side view of my improved hammer, showing the socket, nut-wrench, eye for bending wire, &c., countersink, and screw-driver, in one piece; also, the strengthening-bolt, for securing the hammer to the handle, in dotted lines.

Figure 2 shows an edge view of the socket, the reamer, and screw-driver, on a broken-off section of the hammer handle.

Figure 3 is an edge sectional view of the same.

The object of my invention is to provide in the most compact manner in one tool, the usually necessary tools or implements required in putting up and hinging doors, with the trimmings, and for various other purposes,

My invention consists in putting on to the end of a hammer-handle a solid metal socket, which is provided with two recesses of different sizes, for nut-wrenches; a large and a small hole through, for bending wire, and other purposes; a bevelled countersink, for fitting screw-heads to butts and other hinges, locks, and various metal plates; and an efficient screw-driver.

To enable others to make and use my invention, I will describe it more fully, referring to the drawings, and the letters marked thereon.

I use a nail or other hammer or hatchet constructed in the ordinary manner.

On the end of the handle A, I fit a socket ferule, B, of sufficient length to allow of the recesses or nut-wrenches *b b* on both sides, which may be of different sizes and form, to fit variously-shaped nuts.

Between the wrenches *b b* is an opening or hole, *a*, through, to admit the screw-end of a bolt, and also another small hole, *c*, through the blade D, for bending wires or other purposes.

The blade D may extend beyond the wrenches *b b* a sufficient distance to form an efficient screw-driver at the point *d*, the blade also being wide enough to admit of the edges *e e* being bevelled off in such a manner as to make a tapering reamer, or a countersink, for fitting screw-heads to the butts, hinges, locks, and plates, for various uses and purposes.

The hammer or hatchet-head being formed with an eye, and put on the handle in the usual manner, I bore into the handle, centrally, a hole of sufficient depth, into which is fitted a steel bolt, E, the head being enlarged and tapering to form an efficient wedge to hold the hammer or hatchet on to the handle A.

What I claim as my invention, is—

A hammer, the handle of which is strengthened by means of the bolt E, and having at the other end of the handle a socket, B, which is provided with wrench, countersink, screw-driver, and perforations for bending wire and other purposes, as herein described.

JOHN P. RADLEY.

Witnesses:

J. B. WOODRUFF,  
JAMES STORY.