

W. Zimmerman,

Hammer,

No 83,897,

Patented Nov. 10, 1868.

Fig. 2

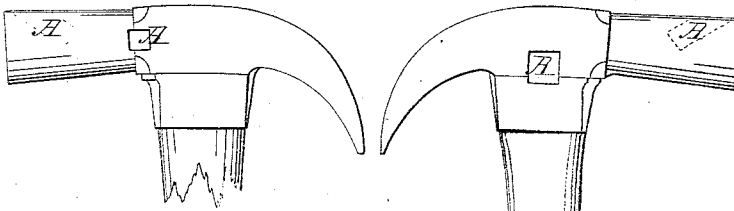


Fig. 1

Fig. 3

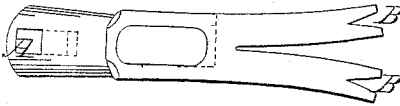
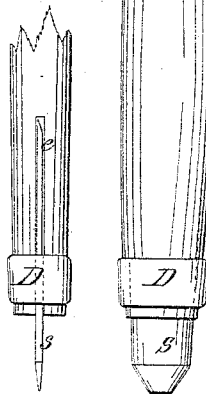


Fig. 4



Witnesses
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WILLIAM ZIMMERMAN, OF QUINCY, ILLINOIS.

Letters Patent No. 83,897, dated November 10, 1868.

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, WILLIAM ZIMMERMAN, of Quincy, in the county of Adams, and State of Illinois, have invented a new and useful Improvement in Claw-Hammers, and other tools for driving and extracting nails, and sticking them in higher places than can be reached with the nail in the hand; and also a device for the application of various useful tools in the end of the hammer-handle, and handles of other tools, for the same purpose; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in making holes in the sides and front of the hammer, and additional claws in the end of the two sections of the main claw of the hammer; also in a very simple and efficient arrangement of a device for receiving and holding various useful tools in the end of the hammer-handle, for the purposes above mentioned.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and use.

The hammer may be made in any of the known modes of making such tools, but to apply my improvements, I add as follows:

First, I make a round or square hole, A, in the side of the eye of the hammer, and through the handle in the eye of the hammer, to the opposite side of the eye, as shown in Figure 1; and another round or square hole, A, in the side of the hammer, as shown in Figure 2, of less size, about two-thirds through, below the eye of the hammer, and another hole, A, in the front part of the hammer, represented by dotted lines in figs. 1, 2, 3, of the drawings. All of said holes are for the purpose of placing the heads of nails into, to strike them into places to drive higher than can be reached with the nail in the hand.

Secondly, I make additional claws, B B, in the ends of the two sections of the main claw of the hammer, as shown in Figure 3, for the purpose of extracting nails from places where the main claw cannot reach them.

Thirdly, I make a slit, C, in the end of the hammer-handle, represented in the drawing, Figure 4. The end of the handle is made a little tapering and oval,

to receive a corresponding flat-bodied ring, D D, to slip back and forth, represented in the end of the handles in figs. 1 and 4. In the slit can be placed various useful tools, and held tightly by slipping the ring further up after the tool is put in, and slipping the ring back for taking the tool out. I have put in a screw-driver and paring-chisel combined, which I will represent by the letter S in figs. 1 and 4. In this slit can be placed boring-bits of any kind, by making the shanks flat, to correspond with the slit.

The shape of the hammer may be varied to suit the adaptation of the nail-head holes A, particularly when cast. I contemplate applying the holes to hatchets and hammers, wherever it can be of advantage or convenience for the purposes above specified.

The claw of the hammer should be made wider than usual, where the additional claws are added; also the eye of the hammer should be made wider lengthwise of the hammer, for the purpose of maintaining a sufficient strength of the handle in the eye, on account of the hole that goes through the handle. The hole in the front of the hammer can be omitted, but the slit C and the ring D, on the end of the handle, will be very useful, as specified. The slit C can be made deeper into the handle, and tools made longer, if desired, than those represented. The end of the handle may be made round, and a ring made to fit the same, for such tools as may require that shape.

I do not claim forming cavities or grooves in the body of the hammer, but arranging the said groove or grooves at such proper angles of inclination as will enable the operator to carry and support the nail in the groove, when holding the hammer by its handle, as in ordinary work. Again, I am aware that the handle-end of certain tools has been arranged to receive tool-blades, and disclaim this as a general feature.

Having thus fully described my said invention,

What I do claim, is—

The above-described hammer or instrument, when adapted to the different uses and purposes described, and constructed to operate in the manner substantially as set forth.

WILLIAM ZIMMERMAN.

Witnesses:

F. G. ARROWSMITH,

JNO. W. KIRKPATRICK.