

(No Model.)

J. H. HEBBLETHWAITE.
COMBINED HAMMER AND NAIL PULLER.

No. 529,384.

Patented Nov. 20, 1894.

Fig. 1.

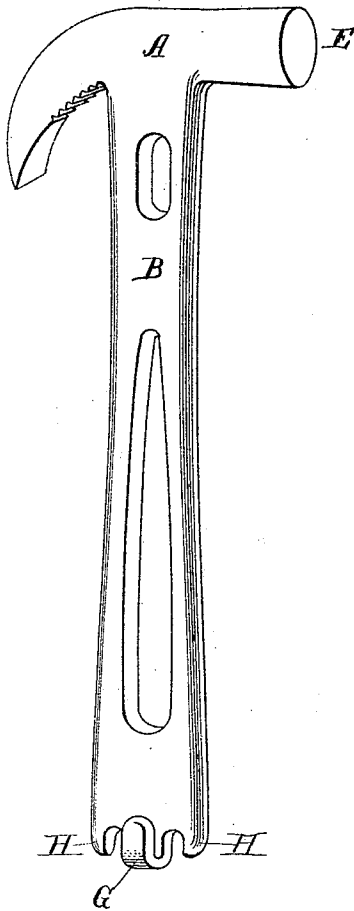


Fig. 2.

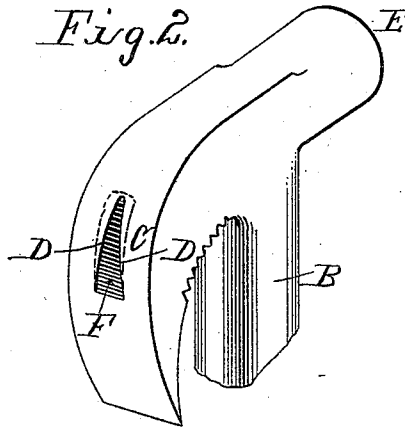
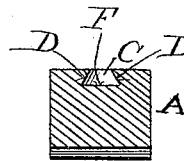


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN H. HEBBLETHWAITE, OF ROCK FALLS, ILLINOIS.

COMBINED HAMMER AND NAIL-PULLER.

SPECIFICATION forming part of Letters Patent No. 529,384, dated November 20, 1894.

Application filed January 17, 1894. Serial No. 497,135. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. HEBBLETHWAITE, a citizen of the United States, residing at Rock Falls, in the county of Whiteside and State of Illinois, have invented certain new and useful Improvements in a Combined Hammer and Nail-Puller; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to a combined hammer and nail puller, and has for its object to produce a tool of this character which shall be durable and efficient, and it consists in the improved construction of the same as will be hereinafter more fully set forth.

In the accompanying drawings—Figure 1 is a perspective of a hammer embodying my invention, viewed from the side. Fig. 2 is the same, viewed from the claw end, in a direction perpendicular to Fig. 1. Fig. 3 is a cross section of the head of the hammer through the nail-head socket, as shown in Fig. 2.

Like letters of reference refer to similar parts in all the figures of the drawings.

A is the head of the hammer, and B the handle thereof. In the outer surface of the head A there is formed a recess or nail head socket C, having one open side, the walls D—D of which converge so as to produce an interval, gradually lessening toward the bottom of the socket. The interval aforesaid is sufficiently wide at the open end to admit the largest size of nails in common use, and decreases toward the other end sufficiently to grasp any of said nails below the head thereof.

By forming the socket or recess in the curved surface of the head and making the bottom of the recess intersect the surface of the head and undercutting the side walls of the recess, it is evident that the sharp edges of the wall will engage with the head of a nail as soon as it projects above the surface of the article into which it has been driven, and from which it is to be removed. In the use of my invention for this latter purpose the socket C is slipped over the nail under its

head until the nail is engaged by the walls D—D, when, by moving the handle B toward the pole E of the head A, said pole acts as a fulcrum, and the nail is withdrawn. The walls D—D are brought at their margins on each side of the interval F to a cutting edge, whereby they can be readily forced sufficiently under the head of the nail to grasp the latter.

The hammer shown in this application is what is termed a "single claw hammer," and is therefore otherwise without the usual provision for drawing nails.

One purpose of my invention is to provide a cheap single claw hammer, and yet furnish it with the essential nail pulling quality.

At the opposite end of the handle B there is formed a central hook G, adapted to be placed at any desired locality on the wire, or cable. On each side of the hook G are formed recesses H—H, designed to engage, respectively, the ends of the wire intended to be twisted. The mode of using this part of my invention is as follows: The free ends of two wires designed to be united are preliminarily hooked together a short distance back of their extremities. The projecting ends of the wire are then turned at substantially right angles to the main body of the wire. The hook G is placed upon either wire near their point of union and at one side thereof, and one of the recesses H caused to engage the projecting end at the same side of said union, when, by rotating the hammer around the wire with the hook G in place thereon such projecting end is gradually twisted by said recess H around the main strand, the hook G meanwhile moving out on the main wire to accommodate the accumulating coil. The tool is then disengaged and the hook G placed on the opposite side of said union, and the other recess H caused to engage the remaining projecting end of the wire, which latter is coiled around the main strand in like manner.

It is practicable to utilize the tool with but one recess H, but that involves two variant movements of said tool, and is less convenient and natural than the method heretofore described.

In the tool, as illustrated in the drawings and as used by myself, there is shown a series

of serrations I on the inner surface of the single claw, to be utilized in connection with the handle B as a wrench; but inasmuch as I have shown and claimed the same substantially in a former application, I make on
5 claim to that feature in this application, although it adds to the general scope of the usefulness of the tool. Neither do I claim the wire twister portion of the device as I am
10 aware that such construction is not new, and I have only introduced the same in connection with the other features of my invention as making a more convenient tool.

It is my design to manufacture the complete tool by casting the same in the ordinary way, in which event the socket C is readily
15 cast by the use of a core in the usual mode.

The advantage of my invention consists in the convenient form in which all of the func-

tions before stated are served by one combined tool, and

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

A hammer, the outer surface of the head of which is curved and provided with an open ended socket, the bottom of which intersects the surface of the head at the open end and the side walls are undercut and approach each other toward the pole of the head, substantially as set forth. 25 30

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

JOHN H. HEBBLETHWAITE.

Witnesses:

JOHN G. MANAHAN,
CHARLES A. DAWSON.