(No Model.)

W. MILLSPAUGH.

TOOL HANDLE.

No. 376,413. Patented Jan. 10, 1888.

Fig. 1.

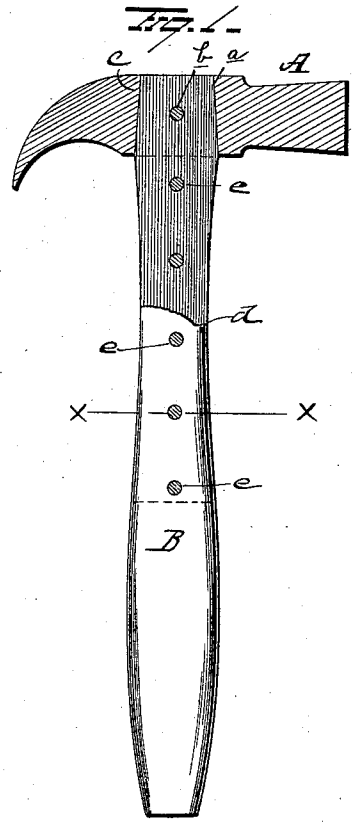


Fig. 2.

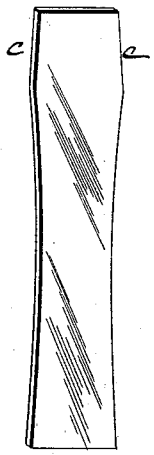
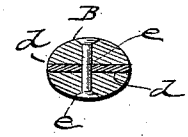


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM MILLSPAUGH, OF MIDDLETOWN, NEW YORK, ASSIGNOR OF ONE-HALF TO WILLIAM S. BURLING, OF SAME PLACE.

TOOL-HANDLE.

SPECIFICATION forming part of Letters Patent No. 376,413, dated January 10, 1888.

Application filed June 28, 1887. Serial No. 242,751. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MILLSPAUGH, of Middletown, in the county of Orange and State of New York, have invented certain new and useful Improvements in Tool-Handles; and I do hereby 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.

My invention relates to an improvement in tool-handles, and more particularly in handles for hammers, hatchets, sledges, axes, and pickaxes.

Constant use has proved that not only the weakest part of tool-handles, but also the portion most liable to receive wear and bruises, is the neck of the handle, or that portion nearest the metal head.

The object of my present invention is to provide a guard or strengthening-plate for tool-handles.

A further object is to provide a means for making a stable and unyielding fit between the head-socket and handle, and also means for locking the handle securely in the head.

With these ends in view my invention consists in certain features of construction and combinations of parts, as will be hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a hammer with a portion of its handle removed to show the guard or strengthening-plate. Fig. 2 is a detached view of the guard or strengthening-plate, and Fig. 3 is a detached view in cross section on the line *x x* of Fig. 1.

A represents an ordinary hammer-head, having formed therein the usual socket, *a*, which receives the handle, and transversely through the socket the perforation *b* is formed.

B represents the hammer-handle enlarged at one end, restricted at the neck, and slightly tapering at the opposite end, *c*, to enter the socket in the head. From this end *c* through the neck, preferably to the enlarged portion, the handle is provided with a slit, *d*, extending longitudinally with the head or breadth of the handle. A metallic guard or stiffening-plate, *e*, enters this slit, and its width is such that the edges extend flush with the edges of the handle, so that when inserted in the handle it is entirely out of the way and does not injure the appearance of the handle. The plate and handle are provided with perforations *e*, adapted to receive rivets. The handle is secured in the head by a rivet. Ordinarily a rivet through the head is of little use in securing the head to the handle for various reasons; but with the use of the metallic plate there is no liability of the rivet tearing its way through the end of the handle. Besides presenting a hard edge to knocks and punishment to which tool-handles are continually subjected, and also giving increased strength to the handle, the edges of the tapered portion of the handle, which enter the socket of the head, form an unyielding surface which will wear as long as the head itself.

It is evident that all tool-handles might be supplied with one of these guards or strengthening-plates, and that slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention; hence I do not wish to limit myself to the particular construction herein set forth; but,

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

1. As a new article of manufacture, a tool consisting, essentially, of a head having a socket for a handle and a perforation, a handle, and a guard and strengthening-plate secured in the handle, the said head and handle being secured together by a rivet passing through the head, handle, and plate, substantially as set forth.

2. As a new article of manufacture, a tool consisting, essentially, of a handle having one end slotted, a guard and strengthening-plate secured in said slotted end with its edges flush with the edges of the handle, and a tool-head having a socket, within which the slotted end of the handle is secured, substantially as set forth.

3. A tool consisting, essentially, of a handle having a slotted end, a guard and strengthening-plate located within said slot and secured therein by rivets passing through the handle and plate, and a tool-head having a socket, within which the slotted end of the handle is secured, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM MILLSPAUGH.

Witnesses:

W. S. BURLING,

FRANK B. HATHAWAY.