No. 673,772. Patented May 7, 1901.

J. A. HALL.

TOOL HANDLE.

(Application filed Aug. 13, 1900.)

(No Model.)

Fig. 1.

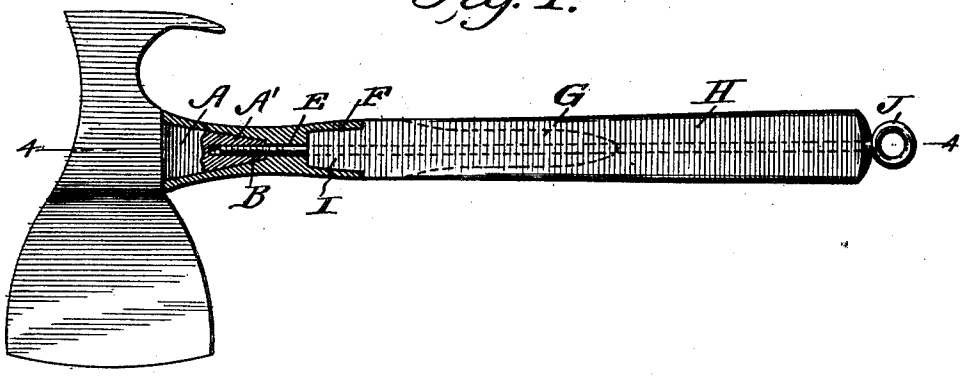


Fig. 2.

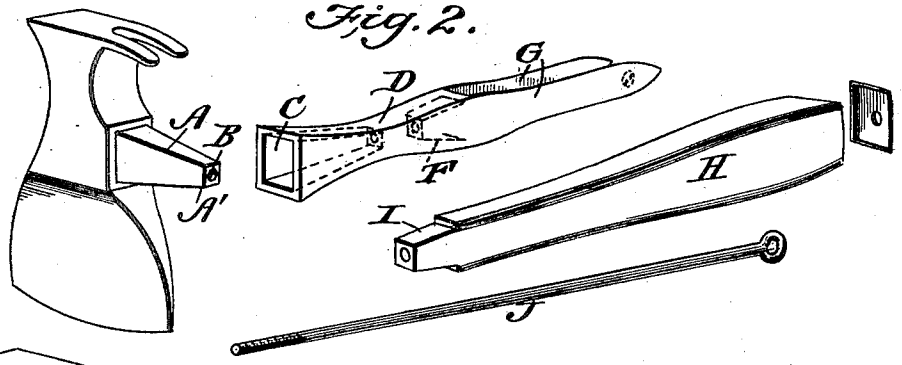


Fig. 3.

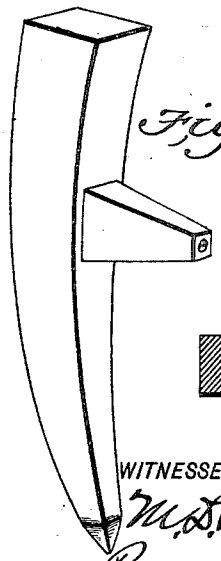
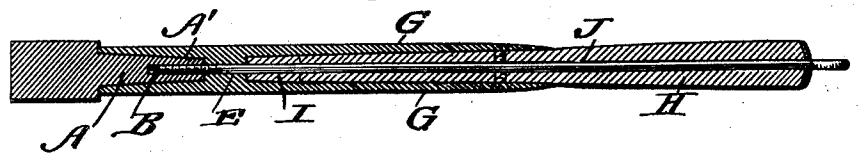


Fig. 4.



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TOOL-HANDLE.

SPECIFICATION forming part of Letters Patent No. 673,772, dated May 7, 1901.

Application filed August 13, 1900. Serial No. 26,669. (No model.)

To all whom it may concern:

Be it known that I, JOHN ARMITAGE HALL, residing at Aspen, in the county of Pitkin and State of Colorado, have made certain new and useful Improvements in Tool-Handles, of which the following is a specification.

My invention is an improvement in tool-handles designed for use with hammer, ax, pick, and other forms of heads requiring handles; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a side view, partly in section, of an ax-head provided with a handle embodying my invention. Fig. 2 illustrates the sections of the handle in detail and detached. Fig. 3 is a detail perspective view of a hammer-head for use in my invention, and Fig. 4 is a longitudinal section on about line 4 4 of Fig. 1.

In carrying out my invention I provide the tool-head, which may be of either of the forms shown in Figs. 1 and 3 or of any other suitable form, with a tang A, which projects from its under side and tapers gradually toward its extremity A′, in which it is provided with a threaded socket B, in which turns the tie rod or bolt presently described. The tang A is fitted in a socket C, formed in the upper end of the connecting-section D. This socket C conforms to the shape of the tang A and communicates, through a reduced opening E, with the upper end of an upwardly-tapering socket F, which is formed in the lower end of the body of the connecting-section D. From the lower end of such body of the connecting-section, at the opposite sides thereof, are extended the reinforcing lap-wings or lugs G, which lie in operation on the opposite sides of the handle H and brace the same and the connecting-section firmly together.

The handle H is bored longitudinally for the passage of the tie rod or bolt, is provided at its upper end with a tang I to fit in the socket F of the connecting-section, and is adapted immediately below such tang to fit between the lap-wings G, as will be understood from Figs. 1 and 2.

When the parts are applied as before described and as shown in Fig. 1, the tie rod or bolt J is passed through the handle, thence through the opening E in the connecting-section, and is threaded at its upper end into the threaded socket in the lower end of the tang A of the head. When this tie rod or bolt is tightened, it is manifest the several parts of the device will be held firmly together and the head will be locked in place. At the same time the rod or bolt can be unscrewed to permit the ready removal of the tool-head to enable the substitution of another form of head or for any other purpose desired.

It may be desirable in some instances to form the connecting-section or the handle proper, or both, in sets of different lengths, so the handle of any desired length may be readily applied and adjusted to secure the tool-head.

It may be desirable in some instances to further brace the handle by applying screws or other fastening devices through the lap-wings G into the handle, as indicated in dotted lines, Fig. 4; but ordinarily this will not be necessary.

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

1. The combination substantially as described of the head having a tang provided with a threaded socket, the connecting-section socketed at its upper end to receive the tang of the head and at its lower end to receive the tang on the end of the handle-bar and provided with lap-wings extended beyond the said lower socket, the handle-bar fitted between said lap-wings and provided at its upper end with a tang fitting in the lower socket of the connecting-section, and the tie-rod passed through the handle-bar and connecting-section and connected with the tang of the head substantially as set forth.

2. The combination of the head having a tang provided with a threaded socket, the connecting-section provided at its upper end with a socket for the tang of the head and in its lower end with a socket for the handle-bar, the handle-bar fitted at its upper end in the lower socket of the connecting-section and bored longitudinally for the passage of the connecting-bolt, and the bolt passed upwardly through the handle-bar and connecting-section and threaded at its upper end in the tang of the head substantially as set forth.

JOHN ARMITAGE HALL.

Witnesses:
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FRANK A. COSTON.