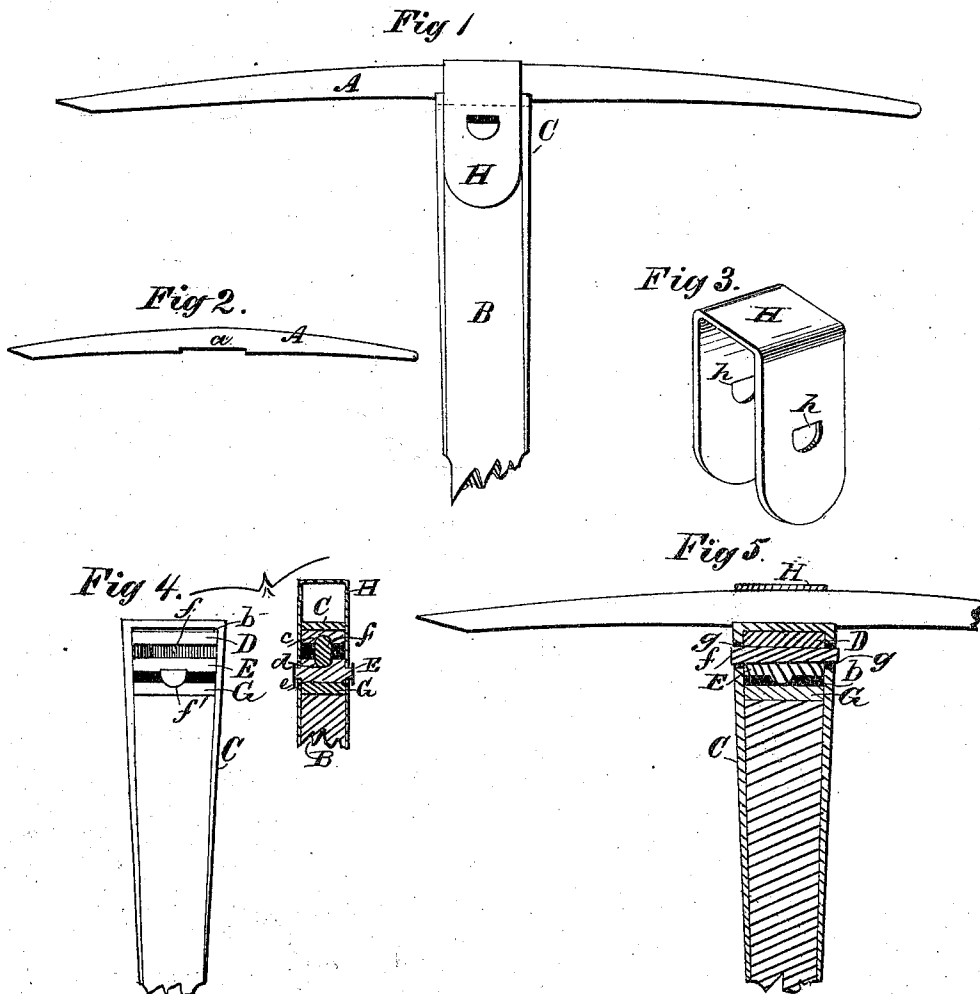


W. B. HILL.
Tool-Handles.

No. 142,568.

Patented September 9, 1873.



Witnesses;
H. C. Clark.
Fred. W. Savett.

Inventor
Walter B. Hill
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UNITED STATES PATENT OFFICE.

WALTER B. HILL, OF BATTLE CREEK, MICHIGAN.

IMPROVEMENT IN TOOL-HANDLES.

Specification forming part of Letters Patent No. 142,568, dated September 9, 1873; application filed June 24, 1873.

To all whom it may concern:

Be it known that I, WALTER B. HILL, of Battle Creek, in the county of Calhoun and State of Michigan, have invented a new and useful Improvement in Tool - Handles; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The object of my invention is the construction of an easily-removable tool - handle particularly adapted for picks, adzes, and such tools, where a portion of the head or working part projects, in either direction, beyond the line of the handle; and the invention therein consists in the construction and combination of the means employed for securing the handle to the tool, so that, when in use, it shall be firmly and rigidly attached to said tool, and be, at the same time, capable of ready removal therefrom.

In order to better understand my invention, so that persons skilled in the particular art may be enabled to construct the same, I proceed to describe the same, taking, for convenience, a pick, and having reference to the drawings making a part of this specification, in which—

Figure 1 is a plan view of my device; Fig. 2, a separate view of the tool detached; Fig. 3, a similar view of the holding strap or clip; Fig. 4, a view of the handle with the holding strap or clip removed; Fig. 5, a vertical central longitudinal section of the device as ready for use.

Like letters of like kind denote similar parts in each figure.

In the drawings, A represents the head or working portion of a pick of usual construction, except that on the inner side, or that which comes next to the handle, it is recessed or cut away, which recess is shown at *a*. Upon and around the head of the handle B is a metallic covering - strap, C, extending down the sides of the handle, and secured to the same in any proper manner. That part of the covering - strap which forms the head of the handle projects beyond the wooden part of the same, leaving an opening, *b*, and is rectangular in outline, and of a size which enables it to fit closely into the recess *a* in

the tool. Within this opening *b*, and to the inner side of the head of the covering - strap C, is secured a metallic block, D, having a groove, *c*, on its under side; and, next in order below this, is another metallic block, E, having a groove, *d*, in its upper side, both of said grooves being of a size to receive a tapering key, *f*, which passes between the blocks D and E. This block E has a transverse rib, *e*, across its bottom, with dependent locking-lips *f'* at each end, and has a length sufficient to enable such lips, in use, to lock into the holding strap or clip, not yet described. Next in order to the block last described is the block G, preferably of wood or other elastic material, which rests upon the wooden portion of the handle. Openings *g* through the strap C, on either side thereof, complete the description of this part of my device.

The holding strap or clip H, of suitable material, passes over the head or working portion of the tool, and down over the sides of the handle not covered by the strap C, and closes up the opening *b*; and has itself, on either side, openings *h*, through which the lips *f'*, before described, pass, and lock said strap on either side.

In putting together my device, the blocks E and G, being placed in the opening *b*, and the holding strap or clip H being sprung over the lips *f'*, the head A is inserted between the strap H and the end of the strap C until the recess *a* fits upon the end of the strap C, when the key *f* is inserted through the openings *g*, and all the parts are firmly bound together. To take them apart is simply reversing the manner just described.

I am aware that a patent was granted March 29, 1859, to J. E. Emerson for a tool-handle which has a general resemblance to mine, but differs in important particulars. In Emerson's handle the clip is fitted into a recess on the outside of the tool, thereby bringing the strain or shock, in use, upon the clip. By my construction the strain or shock comes upon the handle. It is, furthermore, believed that the recess upon the outside tends to weaken the tool much more than the recess upon the inside, as I have it. In regard to the details of construction and arrangement of the several parts used in securing the handle to the tool, my de-

vice differs widely from Emerson's; which I, therefore disclaim as constituting any part of my invention.

What I do claim, however, as my invention, and desire to secure by Letters Patent, is—

1. The combination of the clip H, the tool A, provided with a recess, *a*, upon its inner side, and the strap C having its head constructed to fit into said recess, substantially as described and shown.

2. The combination of the clip H, the tool A, the strap C and the blocks G and E, the latter provided with the lips *f'*, substantially as described and shown.

This specification signed and witnessed this 16th day of June, 1873.

WALTER B. HILL.

Witnesses:

HENRY H. BROWN,

C. A. TOUSLEY.