(No Model.)

E. B. COOK.

TOOL HANDLE.

No. 428,893. Patented May 27, 1890.

Fig. 1.

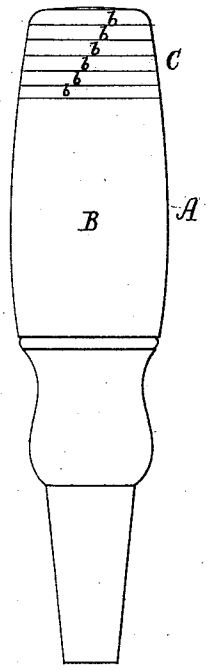


Fig. 3.

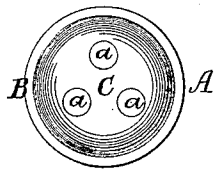
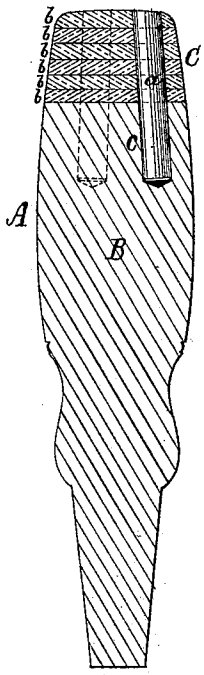


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

EMORY B. COOK, OF MARLBOROUGH, MASSACHUSETTS.

TOOL-HANDLE.

SPECIFICATION forming part of Letters Patent No. 428,893, dated May 27, 1890.

Application filed December 23, 1889. Serial No. 334,674. (No model.)

To all whom it may concern:

Be it known that I, EMORY B. COOK, a citizen of the United States, residing at Marlborough, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Tool-Handles; 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.

Figure 1 is a side elevation, Fig. 2 a longitudinal and median section, and Fig. 3 an end view, of a tool-handle made in accordance with my improvement, the nature of which is defined in the claim hereinafter presented.

My improvement relates to the handles of tools which are in their use often subjected to blows from a mallet or hammer, and has for its object to protect the head end of the handle from injury and to maintain a smooth bearing for the hand of the workman.

In the drawings, A denotes the handle, the greater portion B of it being made of wood, and its head end having applied and fixed to it by pins *a a a*, and also by cement, a guard or shield C, composed of a series of disks *b b b*, of leather, rawhide, or other suitable material, said disks having their contiguous surfaces united by cement. The said pins extend through the guard and into sockets *c c c* in the handle and are arranged to stand obliquely to the axis of said handle to increse their holding power on the said guard and maintain the solidity imparted to it by pressure before securing it to the wood.

In making the handle hereinbefore described I arrange in pack a series of disks of sole-leather or rawhide, with cement applied to their contiguous surfaces, and next place said pack in a suitable support. Next I place against the pack an end of the piece of wood to form the body of the handle, said end being flat and at right angles to the axis of the pack and the wood, cement being first applied to said end of the wood. Pressure is then applied to force the pack and wood into close contact, and also to condense the pack of disks. Next the pack and adjacent end of the wood are bored, the axis of the holes being slightly inclined to that of the pack and wood. The boring being completed, pins with cement applied to them are forced into said holes and through the pack into the wood. The wood, with the guard or pack fixed to it, is next applied to a lathe and turned to form a handle of the desired shape.

A tool-handle thus made is very durable, and the pins, being applied to the guard and to the wood, as described, maintain the said guard in position to excellent advantage, and, furthermore, the latter being made of disks of leather confined to the body of the handle in such manner as to preserve the middle portion of said disks intact, should any portion of the exterior of said guard from any cause become broken away, the remaining portion of it will be still strong and secure, which would not be the case in a handle wherein the guard is composed of rings of leather in case one of said rings should become broken.

Instead of inclining the axes of the dowels to the axis of the handle, as hereinbefore described, I sometimes apply the dowels to the handle with their axes parallel to the axis of the handle; but usually I incline them for the purpose stated.

I am aware that it is not new to form the striker of the shuttle-driver of a loom of disks of leather and to confine said striker to the driver by means of screws, and therefore I do not claim such.

What I claim is—

The tool-handle, substantially as described, it consisting of the body B, the guard C, composed of the disks of leather or rawhide cemented to each other and condensed by pressure, and the pins *a*, connecting the body and guard, the axes of the pins being inclined to that of the handle, as shown, and for the purpose set forth.

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

EMORY B. COOK.

Witnesses:
S. N. PIPER,
C. F. DANIELS.