

(No Model.)

E. B. COOK.  
PROCESS OF MAKING TOOL HANDLES.

No. 428,894.

Patented May 27, 1890.

Fig. 3.

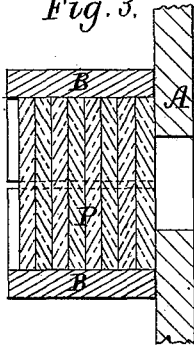


Fig. 2.

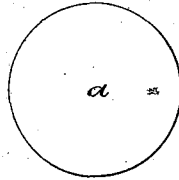


Fig. 1.

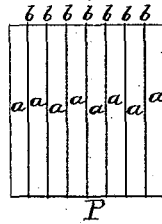


Fig. 5.

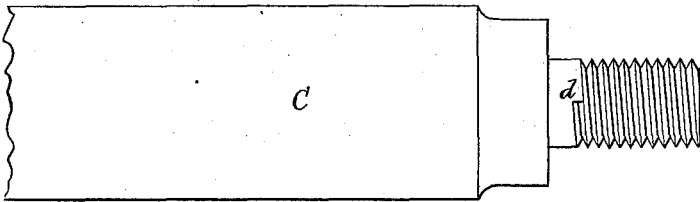


Fig. 4.

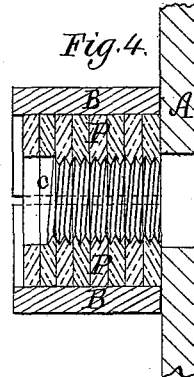


Fig. 6.

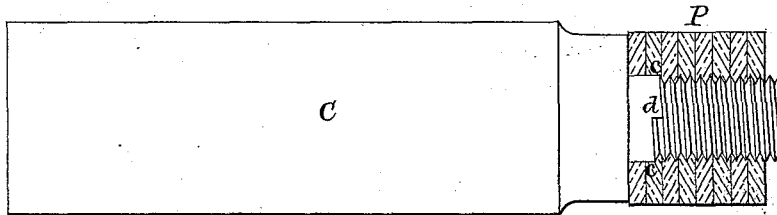
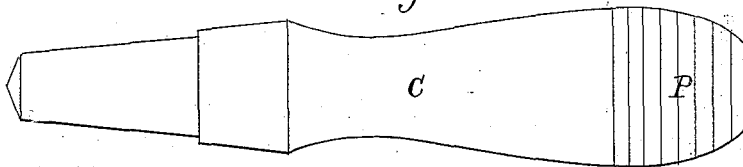


Fig. 7.



Witnesses.

A. F. Piper  
W. E. Piper

Inventor.

Emory B. Cook,  
by S. N. Piper, atty.

# UNITED STATES PATENT OFFICE.

EMORY B. COOK, OF MARLBOROUGH, MASSACHUSETTS.

## PROCESS OF MAKING TOOL-HANDLES.

SPECIFICATION forming part of Letters Patent No. 428,894, dated May 27, 1890.

Application filed January 8, 1890. Serial No. 336,463. (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 the Process of Making 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 represents a side view of a series or pack of leather or rawhide disks with cement between them. Fig. 2 is an end view of said pack. Fig. 3 is a longitudinal section of said pack, showing it as having been compressed against a face-plate and held from expanding by jaws supported by said plate. Fig. 4 represents a longitudinal section of the pack after being bored and screw-threaded. Fig. 5 is a side view of the body of the handle as prepared ready for being screwed into the bore of said pack. Fig. 6 is a side view showing the body and pack as united to each other. Fig. 7 is a side view of the handle ready to receive the ferrule.

In the drawings, *a a a*, &c., represent the disks of the pack *P*, and *b* the cement between them.

*A* is the face-plate, and *B B* jaws supported thereby.

*c* is the bore of the pack, and *d* the screw-threaded part of the body *C* of the handle.

The nature of my invention consists in the process of making wooden tool-handles provided in the upper part thereof with a re-enforce of rings of leather or rawhide applied to a reduced portion of said handle, as represented in application, Serial No. 241,668, filed June 17, 1887, by me.

In carrying out my process I first form a pack of disks of the leather or rawhide with cement applied to their contiguous surfaces and next place said pack within or between adjustable jaws, which are usually arranged and supported on a face-plate, the latter being applied to the arbor of the head-stock of

a lathe, so as to revolve therewith when desired. After placing the pack of disks in position within the said jaws, the interior of said jaws being curved to conform to the periphery of the pack of disks, and before the said jaws are compressed around and against the said pack, pressure is applied to said pack, usually by means of a screw, so as to compress it longitudinally. Next the jaws of the clamp are set against the periphery of the pack to hold the longitudinal pressure attained. Next the said pressure-creating device is withdrawn from the pack, and the said pack is next bored longitudinally and concentric with its axis, after which a screw-thread is formed in the periphery of said bore. Next the stem or reduced portion of the wooden body of the handle which is to enter the pack, and which extends from a shoulder arranged at right angles to the axis of the said body, and which is provided with a male screw on its exterior to fit the screw in the bore of the pack, is screwed into said pack, cement having been applied to said screws before connecting them, and on the pack bringing up solidly against the shoulder of the body the jaws of the clamp are loosened from the pack, and the handle, with the pack secured to it, after the cement is dry and set, is placed in a lathe and turned to the desired shape.

What I claim is—

The process, substantially as described, consisting, first, in compressing a pack of leather or rawhide disks, their contiguous surfaces being coated with cement, next clamping said pack to hold the pressure attained, next boring said pack and forming a female screw-thread in said bore, next screwing said pack to the screw-threaded stem and against a shoulder of the wooden body of the handle, next releasing the pack from the pressure of the jaws, and next turning the re-enforced handle to the desired shape, all as set forth.

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

EMORY B. COOK.

Witnesses:

PETER B. MURPHY,  
FRANK S. COOK.