(No Model.)

F. LATULIP.

FERRULE.

No. 392,957. Patented Nov. 13, 1888.

Fig. 1.

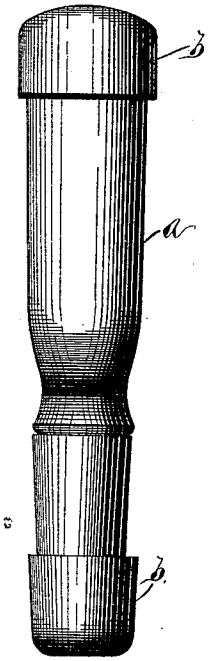


Fig. 2.

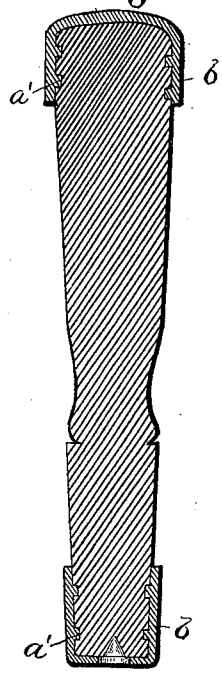
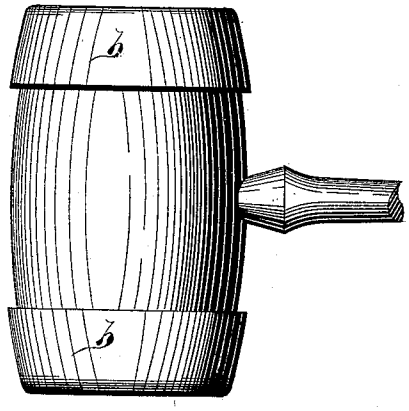


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FREDERICK LATULIP, OF SYRACUSE, NEW YORK, ASSIGNOR TO THOMAS W. MEACHEM, OF SAME PLACE.

FERRULE.

SPECIFICATION forming part of Letters Patent No. 392,957, dated November 13, 1888.

Application filed January 23, 1888. Serial No. 261,571. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK LATULIP, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Tool Heads and Handles, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to an improvement in tool heads and handles.

Heretofore handles have been provided with rawhide ferrules or caps formed by pressing a softened disk of rawhide into the shape of a cap by means of male and female dies, after which the soft flexible cap is removed from the male die and placed upon a "form" to dry, and when the cap becomes sufficiently hard and dry it is removed from the form and turned up, finished, and coated upon the exterior and interior with water-proof varnish, thereby forming, as a new article of manufacture, a cup-shaped cap which can be placed upon a handle of a whip or like article, and is formed of rawhide, varnished, turned up and finished, and kept in place by winding thread, cord, or by placing a metal clamp around the ferrule or whip-handle to retain it in position. These finished caps are applied to the ends of whip-handles and secured to the same by the means above mentioned or by adhesive material, or pins driven through the cylindrical portion; but these old devices heretofore in use possess many defects, the caps are apt to be misplaced and lost, and are liable to become detached from their handles, and will not operate to serve my purpose whatever, and it is a very troublesome, expensive, and lengthy process by which the caps are separately manufactured and after being completed secured to the handle by means exceedingly liable to injure both cap and handle.

The object of my invention is to provide a handle or tool-head having indentations or serrations on the periphery of the handle and provided with one or more rawhide caps or ferrules formed directly on one or both of the ends and held firmly and securely to the handle or tool-head by the rawhide being shrunk into and drying in said indentations and tightly around the handle in the first instance, when it becomes usually a part of the handle.

With these ends in view my invention consists of a tool head or handle provided with one or more rawhide caps or ferrules formed directly and permanently, and shrunk and hardened upon one or both of its ends.

Figure 1 is a side view of a handle such as is used on chisels and similar tools fitted with my ferrules. Fig. 2 is a section of the same, and Fig. 3 is a side view of a mallet having its head protected by similar ferrules.

In the drawings, the reference-letter *a* indicates a tool-handle, whether for chisels, spades, or rakes, &c., or a hammer or mallet head, (see Fig. 3,) and said handle or head is provided at its end or ends upon which the cap or ferrule is to be formed with one or more serrations, grooves, or indentations, *a'*.

The ferrule *b* is made of rawhide, and is first cut out in the form of a disk of proper size, and for the lower end of the handle the disk is formed with a central opening to permit the passage of the tang or shank of the tool. This disk is well soaked in water or its equivalent to soften it thoroughly, and is then placed over the handle end and the whole driven into a suitable hollow form, by which the edges of the disk are pressed down over the side of the handle and forms a cup-shaped ferrule, which is pressed into the grooves, serrations, or inequalities of the handle or head, and is thus firmly held in place. The whole is allowed to dry before being removed from the form, and when completed the end of the handle or head is incased in a rawhide ferrule firmly set in proper form, and forming an article of great strength and durability, not subject to splitting or cracking under any conditions.

This ferrule I intend using in any place where ferrules are needed and upon any desired article or tool; but it is especially valuable when used upon tools subject to hammering or blows—as chisels, mallets, &c.—and effectually prevents any fraying of the end of the wood or splitting of the same, even when inferior woods are used, and cheap handles are readily made therewith possessing equal strength and durability with the expensive and hard woods.

No amount of hammering will in any way split or affect this ferrule or split or fray the wood to which it is applied.

It is evident that a tool handle or head provided with the rawhide ferrules or caps formed permanently on and allowed to harden and shrink upon its ends, as described, is a new article of great utility, exceedingly simple, and easy to manufacture, and extremely cheap in first cost, and of great durability and usefulness.

In constructing the handles or heads, after the rawhide caps or ferrules have been shrunk upon the ends of the same, the article can be placed in a lathe and the whole turned and finished.

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

The herein-described tool head or handle, as an improved article of manufacture, having grooves, serrations, or inequalities in its periphery and provided with one or more rawhide caps to serve as ferrules formed permanently and directly upon one or both of its ends and shrunk into said serrations or inequalities, as set forth.

In testimony whereof I have hereunto signed my name, in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 13th day of January, 1888.

his
FREDERICK × LATULIP.
mark

Witnesses:
W. C. McARTHUR,
J. P. AUMOND.