July 15, 1924. 1,501,827

C. P. WHISLER

SOFT HEADED MALLET

Filed Jan. 2, 1924

Fig. 1.

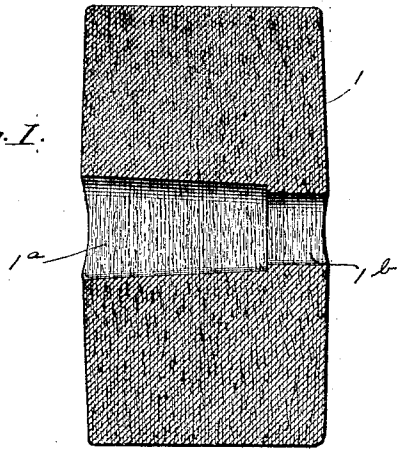


Fig. 2.

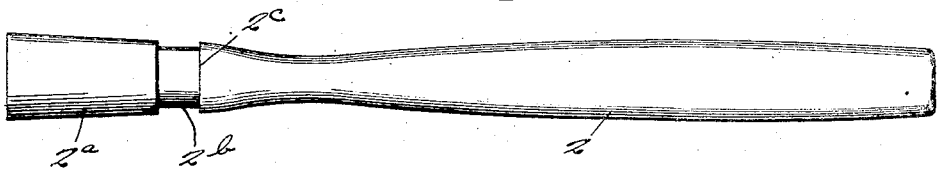
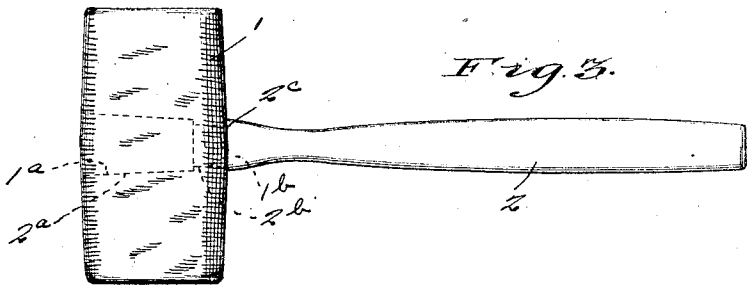


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHAUNCY P. WHISLER, OF KENMORE, OHIO, ASSIGNOR TO THE MILLER RUBBER COMPANY, OF AKRON, OHIO, A CORPORATION OF OHIO.

SOFT-HEADED MALLET.

Application filed January 2, 1924. Serial No. 684,029.

To all whom it may concern:

Be it known that I, CHAUNCY P. WHISLER, a citizen of the United States, and resident of Kenmore, in the county of Summit and State of Ohio, have invented certain new and useful Improvements in Soft-Headed Mallets, of which the following is a specification.

My present invention relates to improvements in mallets of the soft head type, such as disclosed in the application of Maranville and Dabney, filed in the United States Patent Office on the 28th day of July, 1923, Serial No. 654,451, in which the mallet head is composed of fibrous material and rubber compound.

The invention aims to provide such a mallet having a handle which may be readily inserted, but which, when in place, will be firmly held against displacement or loosening, the securing of the handle in mallets of this kind presenting peculiar difficulties in view of the elastic nature of the material of which the head is composed.

The invention consists in the novel construction hereinafter described and defined by the appended claims.

An embodiment of the invention is illustrated in the accompanying drawing in which:—

Figure 1 is a vertical section through the hammer head before the handle is applied thereto.

Fig. 2 is a side elevation of the handle, and

Fig. 3 is an elevation of the complete article with the head engaging portion of the handle shown in dotted lines.

Referring by reference characters to this drawing, the numeral 1 designates the mallet head which comprises rubber and fabric in its construction, and may be made in the manner described in said application, or by any other approved method.

It is provided with a handle receiving opening therethrough, which comprises a flared or frusto-conical portion 1^a extending from the outer face or side of the mallet, and tapering towards the inner or handle side, adjacent which side it is provided with an internal annular rib 1^b constituting a restricted shouldered portion.

The handle 2 is provided with an outer flared portion 2^a corresponding in shape to the socket portion 1^a of the head and with an annular groove or rebate 2^b corresponding to and designed to receive the annular flange or rib 1^b.

Preferably the tapered portion 2^a of the handle is made of the same diameter as the receiving portion 1^a, the same being true of parts 1^b and 2^b, while the diameter of the handle 2^c is preferably larger, forming a shoulder to abut against the inner face of the mallet. The hand grasp portion of the handle is made of a diameter not to exceed the larger diameter of opening 1^a, and is slightly tapered at its outer end.

In assembling, the end of the handle adjacent the grasping portion (right-hand end, Fig. 3), is entered in the flared opening 1^a, preferably while the head is warm from the mold, and forced therethrough until the handle portion 2^a rests in the flared part of the opening and the annular rib 1^b is interlocked with the groove, it being understood that the elastic nature of the material, especially while warm, permits this placement.

When in position, the flared end 1^a of the handle absolutely precludes the head from flying off when delivering blows and the rib and groove engagement prevents any inward displacement of the head, as the engagement of the shoulder or groove wall at 2^c with the inner face of the handle precludes any inward movement of the head on the handle.

Having thus described my invention, what I claim is:—

1. A mallet having a head of elastic material provided with an outwardly flaring handle-receiving eye provided with an annular internal rib adjacent the inner face of the head, and a handle having an outwardly flared end engaging said flared eye, and an annular groove engaged by said annular rib.

2. In combination a mallet handle having an enlarged conical operating end and a mallet head of resilient material having a corresponding eye and designed to be mounted by passing the entire handle therethrough, said handle being provided with an abutment to prevent return of the head.

3. In combination a mallet handle having a conical eye engaging portion largest at its extremity and a groove at some distance therefrom, a mallet head having a corre-

sponding eye designed to be mounted by passing the head entirely over the handle, said head being provided with an internal rib for embracing the groove in the handle.

4. In combination a mallet head having a stepped conical eye tapered in one direction and a handle designed to be mounted therein by being passed entirely therethrough, said handle being provided with an abutment for preventing its return.

In testimony whereof, I affix my signature.

CHAUNCY P. WHISLER.