

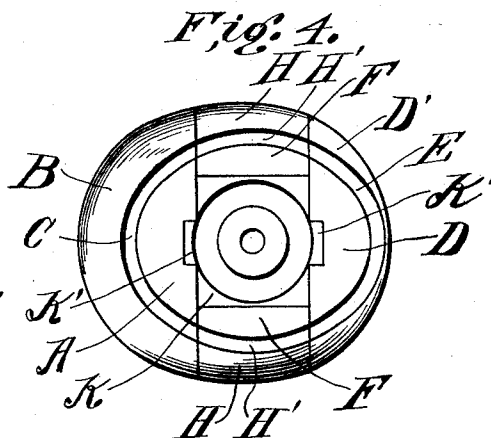
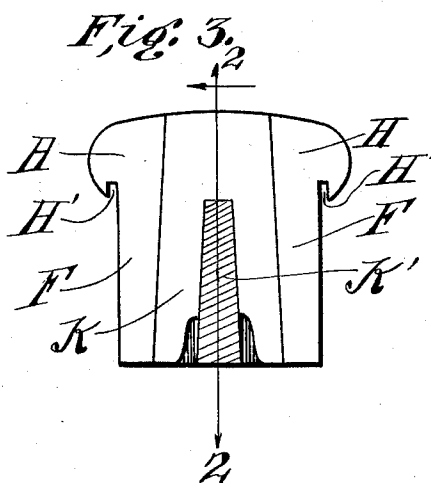
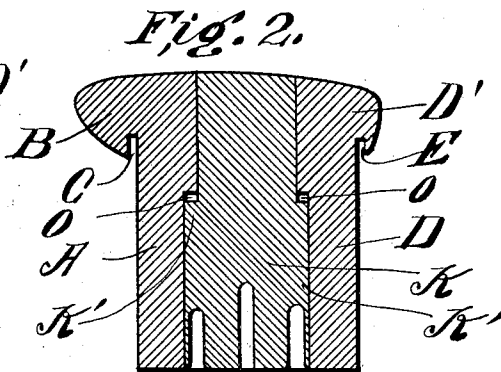
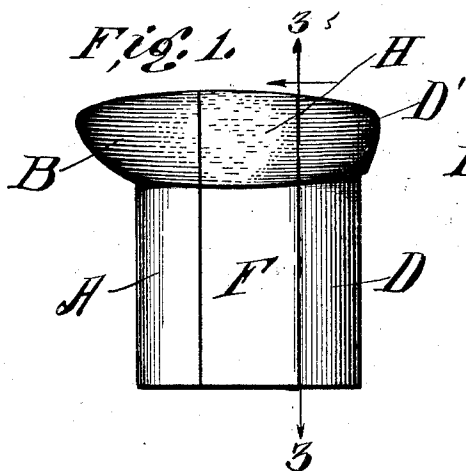
J. M. BENNINGER.

CAP BLOCK.

APPLICATION FILED MAY 18, 1912.

1,043,662.

Patented Nov. 5, 1912.



Witnesses

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CAP-BLOCK.

1,043,662.

Specification of Letters Patent.

Patented Nov. 5, 1912.

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To all whom it may concern:

Be it known that I, JOHN M. BENNINGER, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Cap-Blocks; and I do hereby 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 and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in grooved cap blocks and affords a simple and efficient means whereby a cap may be blocked with both the sweat band and the lining therein without injury thereto.

Heretofore in making caps, it has been common to form the cap over blocks, necessitating the insertion of the sweat band after the cap has been formed but, by the present invention, it is my purpose to make the cap complete with sweat band before being blocked, this being accomplished by my improved grooved block.

The invention comprises a simple and efficient device of this nature having various details of construction and combinations and arrangements of parts which will be hereinafter fully described, shown in the accompanying drawings and then specifically defined in the appended claim.

I illustrate my invention in the accompanying drawings, in which:—

Figure 1 is a side elevation of my improved grooved cap block. Fig. 2 is a sectional view on line 2—2 of Fig. 3, and Fig. 3 is a sectional view on line 3—3 of Fig. 2.

Reference now being had to the details of the drawings by letter, A designates a front block section, the shank portion of which has its outer surface convexed and is provided with an overhanging flange B, the surface of which is adapted to conform to the shape of the cap to be formed upon the block and said flange is provided with an undercut groove C adapted to receive a portion of the sweat band upon a cap. A rear block section, designated by letter D, is provided with a similar overhanging flange D', although shaped somewhat differently than the flange B and conforming to the rear

portion of the cap and said flange D' has a shallow undercut groove E. Oppositely disposed side block sections, designated by letter F, have their outer surfaces convexed to conform to the curvature of the sections A and D and each block F has a laterally extending flanged portion H at its upper end with an undercut groove H'.

A central block section, designated by letter K, is slightly wedge shaped on its opposite faces and is provided with wedge-shaped keys K' projecting from two of the opposite edges thereof and which are adapted to engage the tapering grooves O formed one upon the inner face of each of the sections A and D and forming means whereby the block K may be guided longitudinally and hold the two sections A and D in proper positions, while the wedge faces of the block K bearing against the inner faces of the block sections will cause the same to spread slightly, sufficiently to draw the cap taut about the flanges at the tops of the block sections.

It will be noted upon reference to the drawings that the various flanges upon the block sections, when the latter are adjusted together as shown, will form a continuous surface conforming to the shape of the cap to be formed upon the block.

While I have shown a grooved cap block made of a particular shape and having a circumferential groove extending entirely around the sections, it will be understood that the shape of the flanges which form the cap may vary to adapt the block for various styles of caps and the groove may extend partially around the sections which is necessary in certain styles of caps.

In operation, the completed cap with the sweat band is inverted and placed upon a table and the flanged ends of the blocks A and D are inserted underneath the band inside the cap; afterward the flanges H of the side blocks are inserted between the block sections A and D and the grooved portion thereof hooked underneath the sweat band, the adjacent faces of the block sections coming together in contact with one another. The center block K is then inserted in the recess intermediate the inner faces of the other blocks and the keys are guided in the grooves H'. By imparting an inner longitudinal thrust to the center block K, the wedging action intermediate the center block and the surrounding sections will

cause the sections having grooved flanges to expand slightly in order to make the cap taut about the form. This being accomplished, the block with the cap adjusted thereto is placed in a steam box and allowed to be subjected for a suitable length of time to the steam, after which the block is removed from the box and the sections disassembled.

10 What I claim to be new is:—

A cap block made up of front, rear and side sections with undercut flanges forming a continuous groove about the convexed circumferences of the different blocks, a central block having two of its opposite sides

inclined and adapted to have wedging action against the inner faces of the side blocks and provided with wedge-shaped projections upon the opposite parallel sides thereof, the inner face of the front and rear sections having longitudinal recesses with inclined walls to conform to the inclined edges of the projections upon the center block, as shown and described.

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

JOHN M. BENNINGER.

Witnesses:

A. L. HOUGH,

J. W. SHERWOOD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."