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R. J. McVICKER

ATTACHMENT FOR MOUTHPIECES OF MUSICAL INSTRUMENTS

Filed May 16, 1925

Fig. 1.

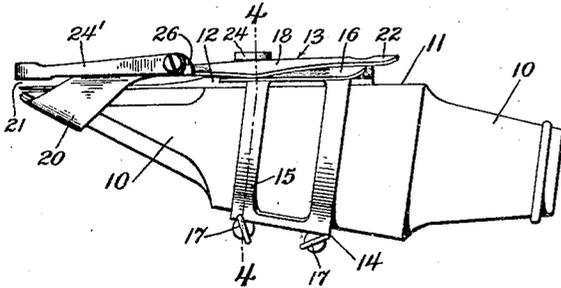


Fig. 4.

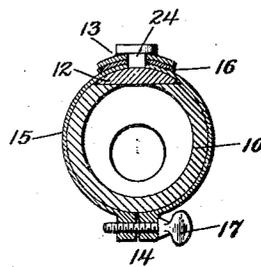


Fig. 2.

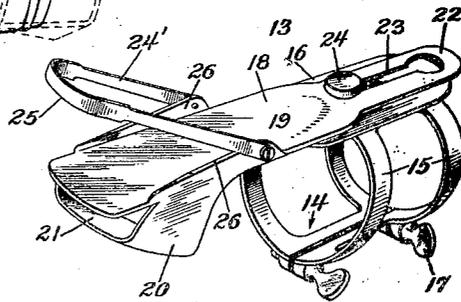
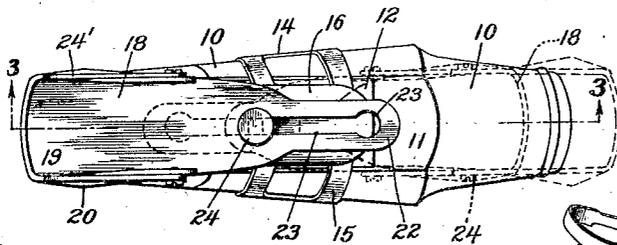


Fig. 3.

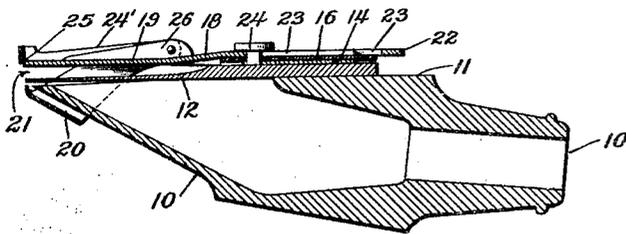
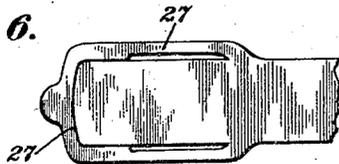


Fig. 5.

Fig. 6.



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WITNESS:

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ATTACHMENT FOR MOUTHPIECES OF MUSICAL INSTRUMENTS.

Application filed May 18, 1925. Serial No. 30,821.

This invention relates to an improved attachment for the mouth piece of musical instruments of the reed type such as saxophones and clarinets.

5 The principal object of the invention is to embody in a single attachment, a ligature for clamping the reed upon the lay of the mouth piece, a cap for protecting the end of the reed when the instrument is not in use and a trimmer for clipping the end of the reed when necessary. Heretofore, these parts have usually all been separate and often become misplaced or lost, while with my attachment all of these elements are accessible for instant use.

10 Another object resides in an attachment which is simple in construction, cheap of manufacture and easy to apply or remove from the mouth piece when it is desired to replace the reed.

15 With these and other objects in view, the invention resides in certain novel construction and combination and arrangement of parts, the essential features of which are hereinafter fully described, are particularly pointed out in the appended claims, and are illustrated in the accompanying drawing, in which;—

20 Figure 1 is a side elevation of a mouth piece with my invention applied thereto.

Figure 2 is a top plan view of the same but showing in dotted line, the position of the cap when not in use.

25 Figure 3 is a longitudinal sectional view on the line 3—3 of Figure 2.

Figure 4 is a transverse sectional view on the line 4—4 of Figure 1.

Figure 5 is a perspective view of my attachment per se.

30 Figure 6 is a detail view of a modified form of trimmer.

Referring more particularly to the drawing, the reference numeral 10 designates a mouth piece used in connection with reed musical instruments and which has one of its sides formed with a flat lay 11, which receives a reed 12. My improved attachment is designated at 13 and includes a ligature 14, in the nature of a split band 15 which is provided with a concavo-convexed bridge 16 which overlies the reed. This split band is applied over the free end of the mouth piece and is held in a clamped position thereon by thumb screws 17.

35 My invention further includes a cap 18 carried by the ligature and which comprises

an elongated member 19 having a yoke 20 depending therefrom and which engages the opposite face of the tip of the mouth piece as clearly shown in Figure 1 of the drawing. 60 An opening 21 is provided in the front of the cap to allow air to act upon the tip of the reed for quickly drying after use. The body of the cap is formed with a tail 22 which is concavo-convexed in cross section to snugly fit the contour of the bridge 16 of the ligature. 65 The tail is formed with a key hole shaped slot 23 through which a headed stud 24 extends and which stud is anchored to the bridge 16. The shank of the stud is formed with opposed flat portions for engagement with the walls of the restricted portion of the slot for preventing lateral movement of the cap and for aligning the cap with respect to the end of the mouth piece when moving the cap into position. 70 When the cap is in applied position as shown in full lines in Figures 1 and 2 of the drawing, the stud is disposed adjacent the end of the restricted portion of the slot, there being sufficient friction between the head of the stud and the tail to prevent accidental sliding movement of the cap. 75 When the mouth piece is in use, the cap is adapted to be moved to a position as shown in dotted lines in Figure 2 of the drawing, by sliding the cap longitudinally to bring the flat sides of the stud into the enlarged portion of the key hole shaped slot 23, which permits the yoke 20 to be swung free of the end of the mouth piece and given one-half turn to reverse the longitudinal position of the cap. 80 Although both the bridge 16 and the tail 22 are concavo-convexed in cross section, there is sufficient yielding movement between them as to permit the tail to be rotated without requiring any adjustment of the stud. 85 When the cap is in an inoperative position, the same is free of the tip of the mouth piece so as not to touch the mouth of the user during the playing of the instrument. 90

It often becomes necessary to clip the end of the reed as the same becomes worn and for this purpose I employ a U-shaped bail 24', the bight portion of which is formed with a cutting edge 25, and which bail is pivotally mounted to upstanding ears 26 on opposite sides of the body of the cap. 105 When it is desired to trim the end of the reed, the said end is projected through the opening 21 slightly beyond the end of the body member and pressure applied to the 110

bail to cause the cutting edge to sever the projecting end.

In Figure 6 of the drawing, I have shown a slightly modified form of trimmer which comprises a resilient blade 27 cut and stamped from the body of the cap member. The normal tendency of the knife is to lie in a non-cutting position and is adapted to be depressed against the spring action of the same to cause the cutting edge of the blade to sever the end of the reed.

From the foregoing description, it will be apparent that I have provided a single attachment for the mouth piece of a reed musical instrument which will act in the capacity of three separate devices, namely a ligature, a cap, and a reed trimmer, thus greatly reducing the cost of such accessories and arranging them for instant use.

20 What is claimed as new is:—

1. In combination with the mouthpiece of a musical instrument, a reed therefor, a ligature for clamping said reed to said mouthpiece, a cap, and means for holding said cap in an operative position over the end of said mouthpiece and for permitting the same to be moved with respect to said ligature to an inoperative position, and a

cutting member carried by said cap for trimming the end of the reed when the cap is in operative position.

2. In combination with the mouthpiece of a musical instrument, a reed clamped thereon, a cap fitted on the free end of said mouthpiece and having an opening therein through which one end of the reed is adapted to be projected, and a cutter carried by said cap for severing the projecting end of said reed.

3. An attachment for mouthpieces of the reed type including a ligature, a cap adapted to fit over the end of the mouthpiece, means for allowing sliding movement of said cap longitudinally with respect to the ligature and for guiding the same in its sliding movement, and for permitting rotation of said cap with respect to the ligature upon the limit of sliding movement of said cap in one direction, said means including a keyhole shaped slot provided in said cap, and a headed stud having a shank provided with opposed flat portions extending through said slot.

In testimony whereof I have affixed my signature.

ROBERT JOHN McVICKER.