

No. 648,093.

Patented Apr. 24, 1900.

W. K. ARBOGAST.
MOUTHPIECE FOR METAL MUSICAL INSTRUMENTS.

(Application filed Oct. 11, 1899.)

(No Model.)

Fig. 1.

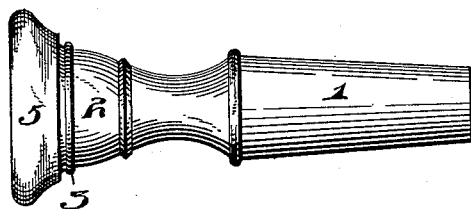


Fig. 2.

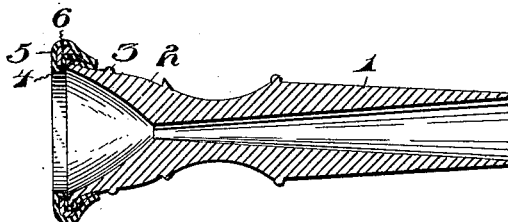


Fig. 3.

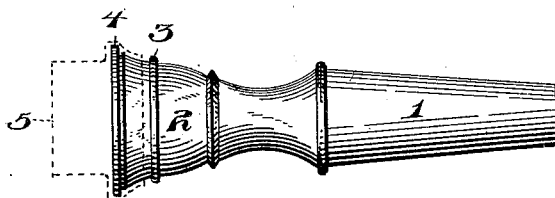


Fig. 4.

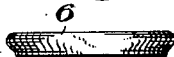


Fig. 5.



Fig. 6.



Fig. 7.



WITNESSES:

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MOUTHPIECE FOR METAL MUSICAL INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 648,093, dated April 24, 1900.

Application filed October 11, 1899. Serial No. 733,280. (No model.)

To all whom it may concern:

Be it known that I, WALTER K. ARBOGAST, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Mouthpieces for Metal Musical Instruments, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in mouthpieces or embouchures of wind instruments; and the primary object of the herein-described invention is to provide new and novel means to apply and retain in position an elastic face where the mouthpiece comes in contact with the lips that will admit of adjustability, and also in case a new rubber or elastic face is required the same can be substituted when the old one is worn or injured.

Another object of the invention is to provide efficient means whereby the elastic covering or face is securely retained in position, thereby effectually preventing the accidental displacement of the parts, which is liable to occur when the instrument is used for parade or other street purposes. This has been a difficulty that my invention aims to overcome; and, furthermore, the invention contemplates constructing a device of the above-described character that will be extremely simple in its construction, strong, durable, and comparatively inexpensive to manufacture.

With the above and other objects in view the invention finally consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claim.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate corresponding parts throughout the several views, in which—

Figure 1 is a side elevation of a mouthpiece with my improvements attached thereto. Fig. 2 is a longitudinal vertical sectional view of the same. Fig. 3 is a side elevation of a mouthpiece, showing in dotted lines the position of the rubber ring before the clamping-ring is inserted. Fig. 4 is a side elevation of

the clamping-ring. Fig. 5 is a vertical sectional view of the same. Fig. 6 is a side elevation of the rubber ring. Fig. 7 is a vertical sectional view thereof.

In the drawings the reference-numeral 1 indicates a tubular shank, which may be made of any suitable metal or other material, terminating in an embouchure or mouthpiece 2, said mouthpiece having arranged thereon and formed integral therewith an annular flange 3, and carries at its forward end a flange 4.

The reference-numeral 5 represents a rubber ring, and 6 represents a clamping-ring, the latter being of peculiar construction, having formed on its upper face an inwardly-extending annular flange 7 and on its under face a similar inwardly-extending flange 8, the latter, however, being of less width than the flange 7, said flanges having formed between them an annular recess 9.

The manner of connecting the elastic band or ring 5 to the embouchure or mouthpiece is as follows: The band or ring is first placed over the flange 4 and forms a seat between the flanges 3 and 4 upon the convexed bell-shaped portion of the mouthpiece and extends downwardly and over the flange 4. The clamping-ring is then placed over the rubber ring, the latter being easily slipped through the same. The ring is then pressed down over the flange 4, thereby clamping the rubber ring firmly between the flange and the ring, the flange seating itself in the recess 9. The rubber ring now being firmly clamped and held in position is turned over said ring and its shoulder, thereby making a firm, simple, and durable cushion for the lips.

The great advantage of such a mouthpiece is the facility with which the elastic bands can be applied, it being not necessary to have them made to order, as is the case with rubber cushions usually employed, it having been the case heretofore that when cushions become worn the mouthpiece had to be returned to the manufacturers to be replaced, another special advantage being that the rubber ring is of less diameter than the forward bell-shaped portion of the mouthpiece and when applied thereto will remain in proper position, this construction affording also the additional advantage that the clamping-ring may be easily applied thereto, and

when the same is clamped in proper position there is no liability of the same becoming disengaged and slipping from its seat, as will be readily understood when the construction of the clamping-ring is considered.

5 I am aware of Letters Patent issued to J. G. True, No. 200,007, dated February 5, 1878; but the aforesaid patent does not disclose my invention, and I do not claim the same; but
10 What I do claim as new, and desire to secure by Letters Patent, is—

The mouthpiece 2 formed with the exterior annular flanges 3, 4, in combination with the

elastic band or ring 5 and the clamping-ring 6 having the inwardly-projecting flanges 7 15 and 8 to form an annular groove 9 adapted to receive the flange 4 of the mouthpiece to bind the elastic band or ring in position, substantially as and for the purpose set forth.

In testimony whereof I affix my signature 20 in the presence of two witnesses.

WALTER K. ARBOGAST.

Witnesses:

JOHN NOLAND,

WILLIAM E. MINOR.