

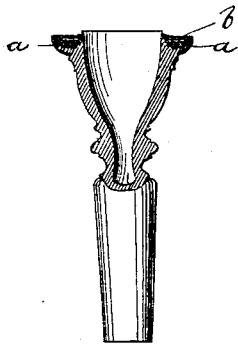
C. G. CONN.

MOUTH-PIECE FOR MUSICAL INSTRUMENTS.

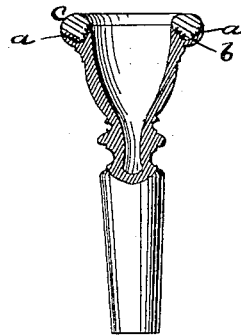
No. 190,558.

Patented May 8, 1877.

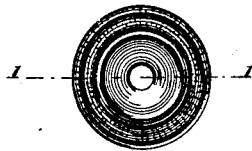
*Fig. 1.*



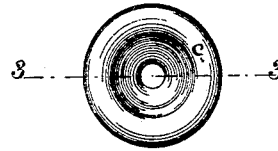
*Fig. 3.*



*Fig. 2.*



*Fig. 4.*



WITNESSES

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# UNITED STATES PATENT OFFICE

CHARLES G. CONN, OF ELKHART, INDIANA.

## IMPROVEMENT IN MOUTH-PIECES FOR MUSICAL INSTRUMENTS.

Specification forming part of Letters Patent No. **190,558**, dated May 8, 1877; application filed March 22, 1877.

*To all whom it may concern:*

Be it known that I, CHARLES G. CONN, of Elkhart, in the county of Elkhart and State of Indiana, have invented certain Improvements in the Construction of Mouth-Pieces for Musical Instruments, of which the following is a specification:

This invention relates, first, to certain improvements on the mouth-piece for which I obtained Letters Patent dated 23d of February, 1875, No. 160,164, and consists in forming within the annular recess of the mouth-piece of musical instruments any desired number of indentations, grooves, or raised surfaces, in which the vulcanizable gum, constituting the outer surface or rim of the mouth-piece, is allowed to run, causing, by its adherence thereto, the permanent fixing within the recess of said gum.

My invention consists, secondly, in providing the face of the mouth-piece of musical instruments with a coating of rubber or other vulcanizable gum hardened to any desired degree.

In the accompanying drawing, Figure 1 is a longitudinal section on the line 1 1, Fig. 2, of a mouth-piece ready for the reception of the rubber rim. Fig. 2 is a front view of the same. Fig. 3 is a longitudinal section on the line 3 3, Fig. 4, of a mouth-piece with the rubber rim applied. Fig. 4 is a front view of the same.

In carrying my present invention into operation, I prefer to proceed as follows: Within the annular recess *a* of the mouth-piece or embouchure described in my patent above referred to, I form, by a lathe or other suitable means, a groove or a series of grooves, indentations, or raised surfaces, *b*, either alone or

in combination, the one with the other, or roughen the surface in any other manner. The surface is then thoroughly cleansed, and the vulcanizable gum *c*, while in a plastic state, is applied to this annular recess, and pressed in and between the interstices, grooves, &c., formed thereon until the recess is filled with the gum. I then place it in a suitable flask or mold to hold the gum to its place and give it the required shape and position. The whole is then placed in a vulcanizer and the gum vulcanized to any desired degree in any ordinary manner by heat, either with or without pressure.

By the means above described I am enabled to secure the perfect adhesion to metallic or other surfaces of either india-rubber, gutta-percha, or other vulcanizable gums, and by curing the same to either a hard or soft condition after its application to such surface, I produce an article that will stand a very considerable amount of wear or use without becoming loose or breaking away from the surface to which it is applied.

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

1. A mouth-piece for musical instruments, constructed with a rim of rubber or other vulcanizable gum secured within a recess or recesses in the face, substantially as shown.

2. The improved mouth-piece herein described, provided upon its face with a coating of hard rubber or other vulcanizable gum, substantially as set forth.

CHARLES G. CONN.

Witnesses:

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