

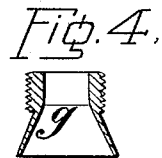
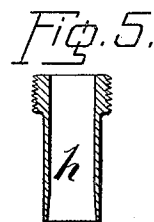
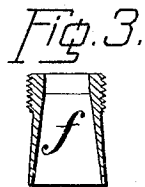
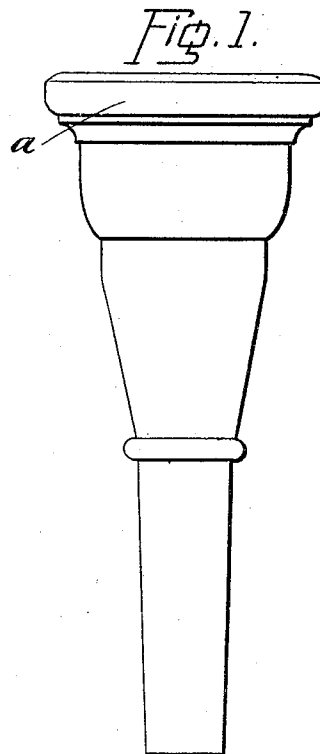
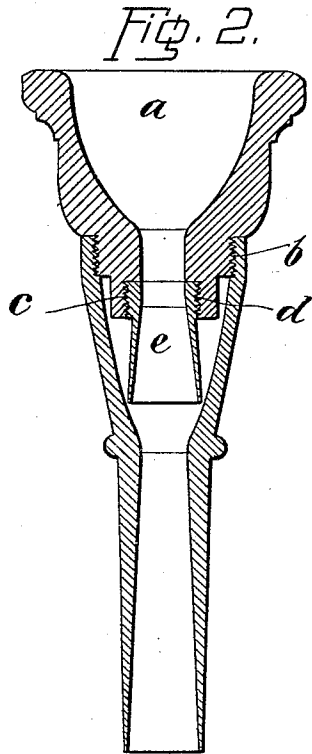
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MOUTHPIECE FOR MUSICAL INSTRUMENTS.

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1,327,970.

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MOUTHPIECE FOR MUSICAL INSTRUMENTS.

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To all whom it may concern:

Be it known that I, FORTUNATO SORDILLO, a citizen of the United States, residing at Boston, in the county of Suffolk, in the State of Massachusetts, have invented a certain new and useful Improvement in Mouthpieces for Musical Instruments, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to mouth-pieces of the type commonly used with cornets, horns, and the like brass wind instruments, and my immediate object is to provide a mouthpiece which may be quickly changed for use with instruments of widely different registers as, for example, from a cornet to a slide trombone or baritone without changing the mouth-cup. It is a fact well known to musicians who play a plurality of brass instruments that when their "lip" becomes fitted, and accustomed, to a certain type of mouth-piece, it is more or less embarrassing for them to shift to another mouth-piece whenever it becomes necessary for them to play a different instrument and my present invention seeks to overcome such embarrassment by providing a mouth-piece which may be readily rearranged in its parts, to conform to the requirements of the said "different instrument," without changing the mouth-cup, as I will explain in detail hereinafter and, for the purpose of explaining my present invention clearly, I have provided the annexed drawings, in which Figure 1 is a side view of a mouth-piece embodying my present improvement, and Fig. 2 is a central, longitudinal, sectional, view of the same. Figs. 3, 4 and 5 are views of differing types of throats or bores, for use with instruments of correspondingly different registers of tones.

Briefly described, my invention consists of a separable mouth-piece in which provision is made for inserting a throat or bore which is specially adapted for use with a cornet, trumpet, alto-horn, baritone, trombone or bass instrument, as the case may be.

Referring to the drawings, the letter *a* indicates the cup section of the mouth-piece and *b* denotes the tubular section of the same.

Ordinarily the cup and tube are made integral, with each other but, in my present

improved device, they are separable; the cup being screwed into the flared end of the tube, as at *b*, Fig. 2. The cup is extended at its inner end portion to form an annular flange *c* which is threaded interiorly, as at *d*, to provide for the insertion of throat members of different bores, according to the register of the instrument to be played.

In the drawings I have illustrated four examples of such throats and they are denoted by the reference letters *e*, *f*, *g* and *h*. Each of these throats is adapted to be screwed into the flange *c* and each provides a throat of different capacity which serves as a resonating chamber, the area of each chamber being proportionate to the depth of tone desired. For example the throat *h* is specially designed for use with a cornet, trumpet, or the like high pitched instrument and said throat provides, in effect, a continuous passage, of approximately the same size through the mouth-piece. The throats *g*—*f* and *e* are of relatively different and slightly increasing areas, the throat *g* being specially designed for use with altos, the throat *f* for use with baritones and trombones, and the throat *e* for use with bass instrument but, it should be kept in mind, that in thus adapting the mouth-piece for use with a plurality of instruments the same mouth cup *a* is used.

Having thus described my invention, I claim:—

1. In a musical instrument in combination a substantially cup shaped open-ended mouth piece, an apertured bottom part on said mouth piece, a separable tubular throat piece, detachably secured to the apertured bottom part of said mouth piece, an outer tube surrounding said throat piece and disconnected therefrom and detachably secured to the outer side of said mouth piece.

2. In a musical instrument in combination, a cup shaped mouth piece, an apertured bottom constituting part of said mouth piece, a substantially tubular part surrounding said mouth piece and detachably connected to the outer wall thereof in spaced relation from its open end, a separable and exchangeable tubular throat piece at the inside of said first mentioned tube and disconnected therefrom and substantially concentric therewith, and removably connected

to the apertured bottom of said mouth piece.

3. In a musical instrument a cup shaped mouth piece, an apertured bottom constituting part of said mouth piece, an exchange-
5 able tubular throat piece detachably secured to the aperture of said bottom part, an open-ended, substantially cup shaped part surrounding the bottom part and detachably mounted at the outside thereof, and discon- 10 nected from said throat piece and a tubular axial extension on said last mentioned cup shaped part.

FORTUNATO SORDILLO.