

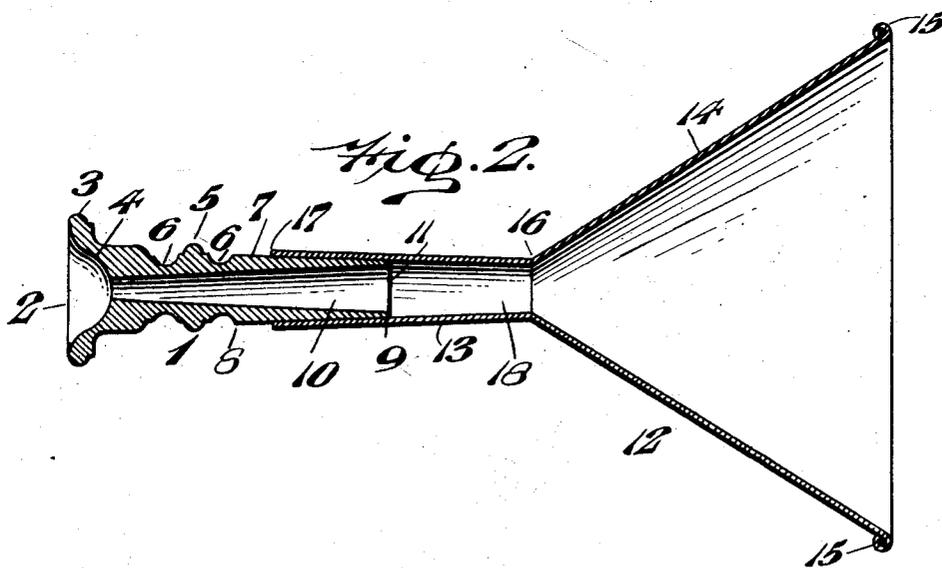
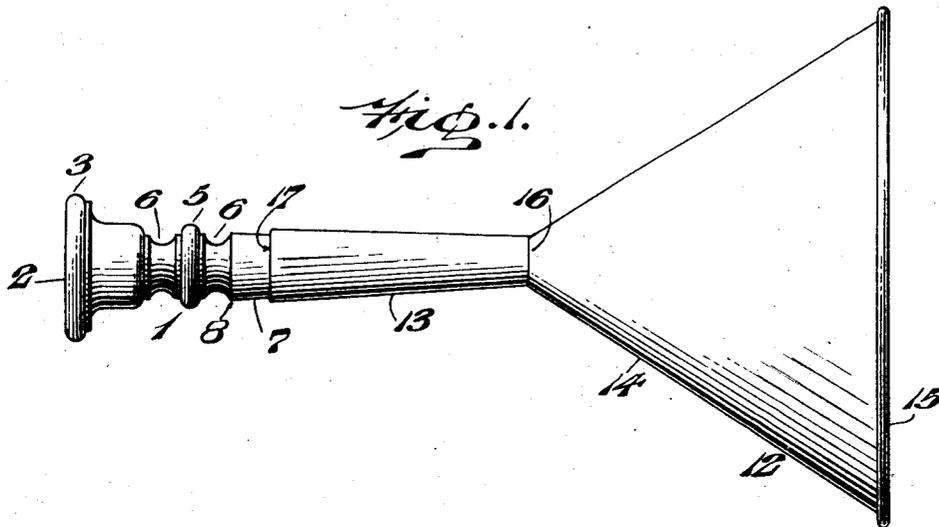
June 10, 1930.

S. M. WILDER

1,763,336

HORN

Filed Aug. 23, 1928



INVENTOR:

SAMUEL M. WILDER:

BY

Wilder & Fairbanks
ATTORNEYS:

UNITED STATES PATENT OFFICE

SAMUEL M. WILDER, OF GLOUCESTER CITY, NEW JERSEY

HORN

Application filed August 23, 1928. Serial No. 301,646.

This invention, stated in its broadest terms relates to musical instruments and has more especial relation to a horn.

The leading object of the present invention is to provide a very simple and inexpensive musical instrument in the form of a novelty from which a player may obtain notes in imitation of notes of a cornet or bugle, and these notes may be obtained without the knowledge or ability to read music and without the employment of valves usually employed upon brass instruments.

A further object of the present invention is to provide an instrument of the character stated which may be made in two parts very cheaply and sold at a price considerably below that usually charged for cornets, bugles, and similar instruments.

A still further object of the present invention is to provide the combination of a mouth piece and amplifier arranged, constructed, and connected for attaining the results sought by the foregoing objects.

The invention consists of the novel construction hereinafter described and finally claimed.

The nature, characteristic features and scope of the invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof, and in which:

Fig. 1, is a view in side elevation of the horn embodying the invention.

Fig. 2, is a view in longitudinal section thereof.

For the purpose of illustrating my invention I have shown in the accompanying drawings one form thereof which is at present preferred by me, since the same has been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of the instrumentalities as herein shown and described.

Referring now to the drawings in detail my novel horn is formed in two sections of which one section constitutes a mouth piece

and the other section constitutes an amplifier, these sections being secured together. A description will first be given of the mouth piece.

The reference numeral 1 designates the mouth piece which is of integral structure and is provided with the mouth piece bell 2. The bell 2 has an annular rounded rim 3 at that part of the mouth piece engaged by the lips of the player. The reference numeral 4 designates the throat of the mouth piece. Arranged forwardly of the mouth piece is an annular rounded member 5 provided upon opposite sides thereof with annular recessed portions 6. The parts 5 and 6 in turn have projected forwardly therefrom an extension 7 which is elongated and horizontally extended and tapers from the part 8 to the part 9. Extended from the throat 4 to the end of the extension 7 is a bore 10 which increases constantly in diameter from the throat to the end of the extension 7. Thus, with the outer walls of the extension 7 tapering and the bore 10 increasing in diameter the wall at the outer end of extension 7 is very thin as is indicated at 11 whereas the major portion of the mouth piece is of relatively thick cross-section. It is also to be noted that the bore 10 is unobstructed from end to end.

Referring now to the other member of my novel horn, the reference numeral 12 designates the amplifier. The amplifier is of substantially funnel shaped contour and may be constructed of thin sheet metal, heavy paper, or other suitable material, whereas the mouth piece 1 is metallic throughout. The reference numeral 13 designates an elongated tapering member having formed integral therewith the flaring or cone-frustum shaped member 14. This member 14, if desired at its outer edge may be reinforced by the annular rim 15. The member 13 tapers from its juncture point with the member 14 toward the mouth piece 1, or in other words it tapers from the portion designated 16 to the portion designated 17. Thus, the bore 18 of the member 13 increases constantly in diameter from the part 16 to the part 17 of the member

13. Thus, the member 13 readily engages over the part 7 of the mouth piece 1 in very snug or tight fitting fashion. In other words, there are no crevices or recesses present between the inner wall of member 13 and the outer wall of extension 7 of mouth piece 1, and these two members 1 and 12, as before stated, may be secured together in any desired manner as by soldering, brazing, or the two parts may be secured together by a pin or set screw, although soldering is preferred on account of its cheapness. The chief point to be gained, it may be mentioned, is that there should be no loose parts to cause vibration at that portion of the instrument where extension 7 engages extension 13.

The above described novel horn enables a cornet or bugle player to perfectly imitate cornet music without the knowledge or ability to read music. There are no valves present upon the instrument such as is found in a cornet or other musical instrument, and the notes of my novel construction are procured on the mouth piece by the pressure of the lips of the user, and the notes are amplified as they pass through the member 12. Even a person unacquainted with the playing of a cornet or bugle may be readily taught how to use his or her lips for obtaining music upon the novelty musical instrument above described.

The above described device is designed to be manufactured and sold very cheaply, and is particularly desirable for boy scouts, girl scouts, and those desiring a novelty, although of course a musician can obtain practical results with the device.

As before stated the mouth piece and amplifier are made in two parts and the member 13 may be caused to engage over the part 7 in such a snug or tight-fitting fashion that no securing mediums are necessary.

I am aware that the invention may be embodied in other specific forms without departing from the spirit or essential attributes thereof, and I therefore desire the present embodiment to be considered in all respects as illustrative and not restrictive, reference being had to the appended claim rather than to the foregoing description to indicate the scope of the invention.

Having thus described my invention, what I do claim as new, and desire to secure by Letters Patent, is:

A horn of the character stated, comprising the combination with a mouth piece bell having a forwardly projecting extension the exterior surface of which extension tapers longitudinally in gradually decreasing diameter, said extension having an internal bore which extends forwardly in constantly increasing diameter, of an amplifier fixed to said extension and comprising a substan-

tially cone frustum shaped member, said member having a rearwardly projecting extension having an internal bore which extends rearwardly in constantly increasing diameter to engage the tapered surface of the mouth piece bell extension.

SAMUEL M. WILDER.

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