S. M. MACOMBER.

SOUND MODIFIER.

APPLICATION FILED JUNE 23, 1914.

1,132,729.

Patented Mar. 23, 1915.

Fig. 1

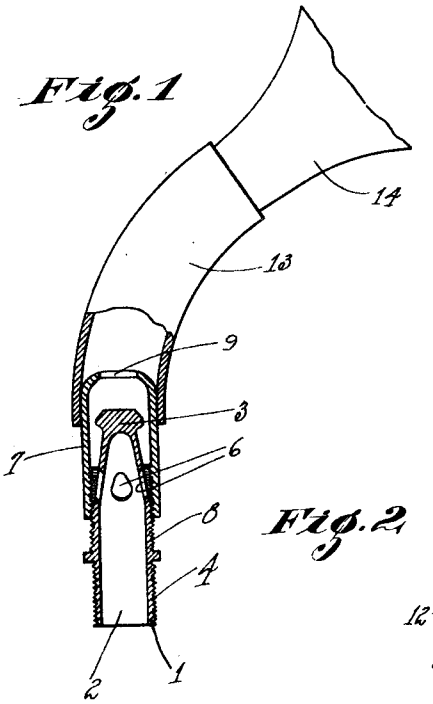
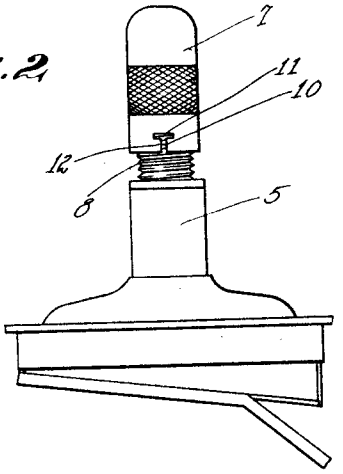


Fig. 2



WITNESSES:

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SAMUEL M. MACOMBER, OF STOCKTON, CALIFORNIA.

SOUND-MODIFIER.

1,132,729. Specification of Letters Patent. Patented Mar. 23, 1915.

Application filed June 23, 1914. Serial No. 846,778.

To all whom it may concern:

Be it known that I, SAMUEL M. MACOMBER, a citizen of the United States, residing at Stockton, in the county of San Joaquin, State of California, have invented certain new and useful Improvements in Sound-Modifiers; and I do declare the following to be a clear, full, and exact description of the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in devices for the reproduction of sound, and particularly to that part known as the reproducer. By the addition of my improved invention the sound from the reproducer may be increased or decreased in volume, as may be desired.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purposes for which it is designed.

These objects, I accomplish by means of such structure and relative arrangement of the parts as will fully appear by a perusal of the following specification and claims.

On the drawings, similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a partly broken out section of the modifier. Fig. 2 is a view showing the modifier as fastened to the reproducer.

Referring now more particularly to the characters of reference on the drawings, the numeral 1 designates the main body portion of the device provided with a central orifice 2 leading to the closed tip 3, as shown.

At 4 are threads for screwing the modifier into the reproducer 5 as shown in Fig. 2. Through the member 1 are the openings 6 for the passage of the sound from the reproducer to the cap 7 mounted upon the threads 8 of the member 1. The opening 9 is adjusted by moving this cap 7 up or down on the threads 8, thereby giving a greater or smaller passageway for the emission of the sound around the tip 3 of said member 1. On the lower portion of the cap 7, I have provided a vertical slot 10 adjacent a horizontal slot 11 by means of which when the tips 12 thus formed by said slots are bent slightly inward, a sufficient amount of pressure is brought to bear upon the threads 8 to form a lock to hold the cap 7 in any desired position. To the outer extremity of the cap 7 may be connected a rubber tube 13 leading to the horn 14 of a phonograph or talking machine. When a hornless instrument is used, the modifier may be connected in the conductor leading to the sound box placed below.

From the foregoing description it will readily be seen that I have produced such a device as substantially fulfils the objects of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such details may be resorted to as do not form a departure from the spirit of the invention as defined by the appended claims.

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

1. A sound modifier of the type described comprising a centrally orificed member provided with openings in its sides, and a tip extending beyond said openings, and a cap threaded upon said member and inclosing said openings and said tip, said cap being provided with an opening in its end in substantial alinement with said tip, as described.

2. A sound modifier of the type described comprising a centrally orificed member tapered at one end, the small end of said tapered portion being closed and provided with an extended tip of a greater diameter than said tapered portion, said member being provided with openings in the sides of said tapered portion and a cap mounted on said member and inclosing said tapered portion, said cap having an opening in its end, as described.

3. A sound modifier of the type described comprising a centrally orificed member tapered at one end and provided with openings in its sides and an extended tip above

said openings, a threaded portion on said member and a cap provided with interior threads adapted to receive said threaded portion of said orificed member, such cap being provided with vertical slots in said threaded portion and horizontal slots registering with said vertical slots, as described.

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

SAMUEL M. MACOMBER.

Witnesses:
STEPHEN N. BLEWETT,
VUADINE WARNER.