

L. B. PURCELL.
MEGAPHONE.
APPLICATION FILED NOV. 16, 1909.

958,680.

Patented May 17, 1910.

Fig. 1

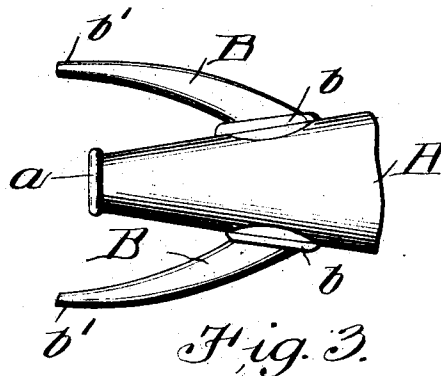
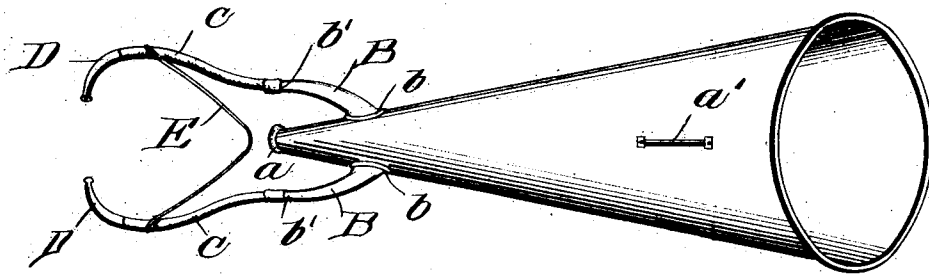
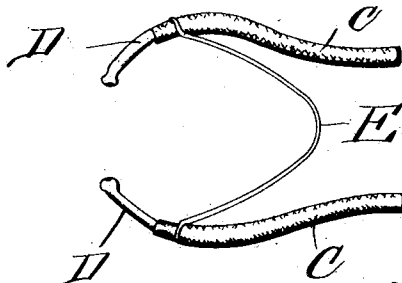


Fig. 3



Witnesses
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UNITED STATES PATENT OFFICE.

LEE B. PURCELL, OF THE UNITED STATES MARINE CORPS.

MEGAPHONE.

958,680.

Specification of Letters Patent.

Patented May 17, 1910.

Application filed November 16, 1909. Serial No. 528,406.

To all whom it may concern:

Be it known that I, LEE B. PURCELL, captain United States Marine Corps, a citizen of the United States, stationed at Olongapo, in the Philippine Islands, have invented certain new and useful Improvements in Megaphones; and I do hereby declare the following to a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in megaphones and especially in megaphones for use aboard ship, where it is desired to carry on conversation between two vessels or objects at a greater distance apart than sound will carry without the use of such implement. With such implements as are now generally in use, the megaphone is used as a speaking trumpet, and then it is removed from the mouth and carried to the ear, where it is used as a horn to assist the hearing. Words are frequently lost while the implement is being moved from the mouth to the ear, and the purpose of this invention is to provide a combined speaking trumpet and ear horn which may be used as a sender and a receiver for sound. For this purpose, I attach to the ordinary megaphone two ear tubes adapted to be held in the two ears of the user, somewhat in the manner of a binaural stethoscope.

The invention will be understood by reference to the accompanying drawings, in which the same parts are indicated by the same letters throughout the several views.

Figure 1 is a perspective view showing the complete device; Fig. 2, is a detail showing the small end of the megaphone with the flexible ear tubes detached; and, Fig. 3, is a detail showing the flexible ear tubes on a somewhat larger scale than in the other figures.

A represents the body of the megaphone, which is provided with the usual mouthpiece *a*, and the handles *a'* may also be pro-

vided. Near the small end of the megaphone oblong or elliptical openings are cut therein, over which are secured the bases *b* of the metal ear horns B, over the small ends *b'* of which are secured the flexible ear tubes C, terminating in ear pieces D, adapted to project into the ears of the wearer. These ear pieces are held together by a suitable spring E, or an elastic band may be substituted for the spring, if desired. This spring, or elastic band, E may be slipped either under the chin, or back of the head of the wearer, as may be most convenient.

It will be evident, that the sound waves entering the megaphone will be concentrated in the ear attachments, and that the operator may alternately speak and listen without removing the implement from his mouth.

Having thus described my invention, what I claim and desire to obtain by Letters-Patent from the United States is:

1. A megaphone provided with two ear horns opening into the body of the megaphone in front of the mouthpiece, said ear horns and mouth piece being permanently open to the megaphone with flexible ear tubes connected to said ear horns and ear pieces connected to said ear tubes, substantially as described.

2. A megaphone provided with two ear horns opening into the body of the megaphone in front of the mouthpiece, said ear horns and mouth piece being permanently open to the megaphone with flexible ear tubes connected to said ear horns and ear pieces connected to said ear tubes, with means for holding the ear pieces in engagement with the ears of the wearer, substantially as described.

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

LEE B. PURCELL.

Witnesses:

E. H. ELLIS,
JOHN H. OHNET.