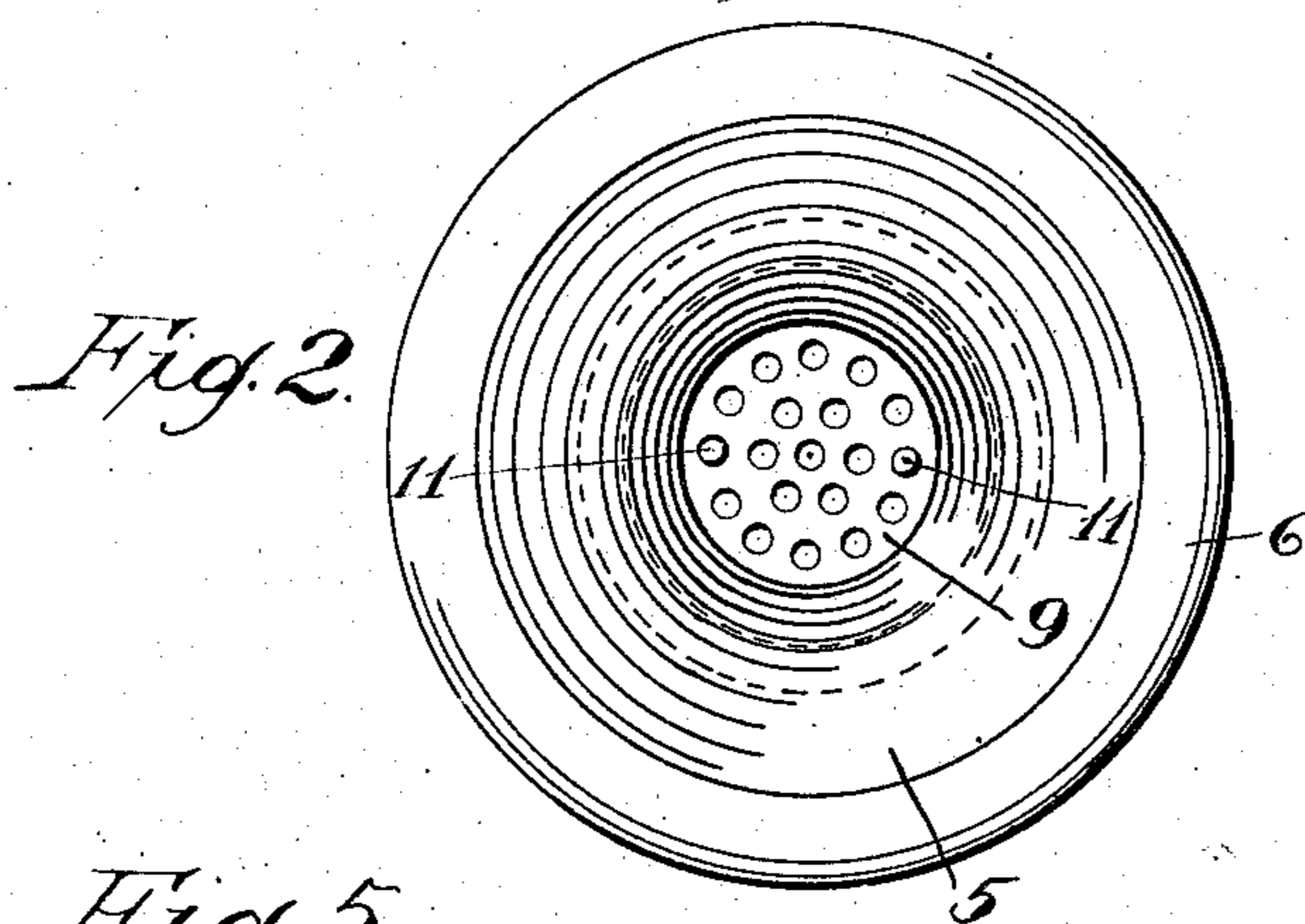
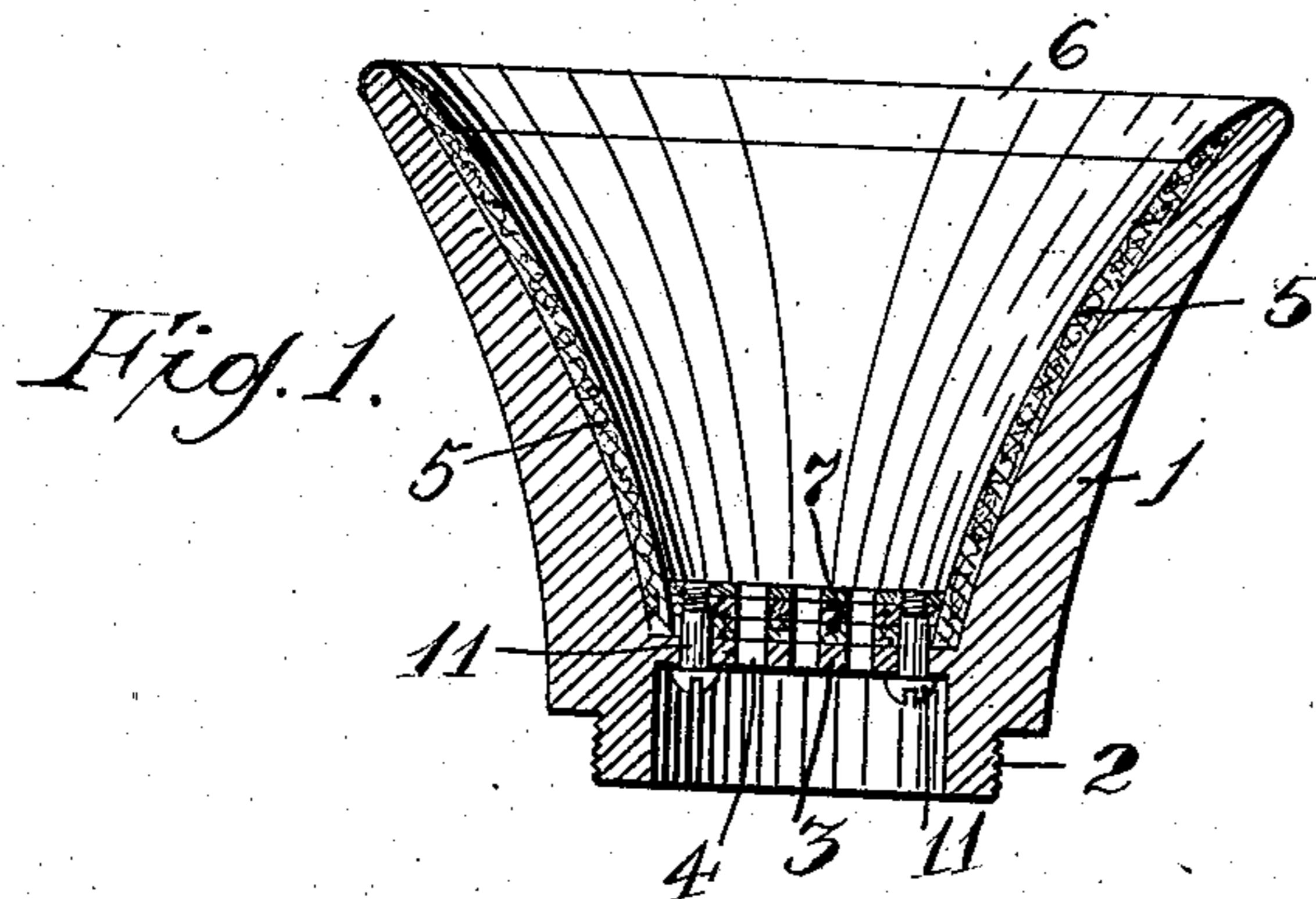


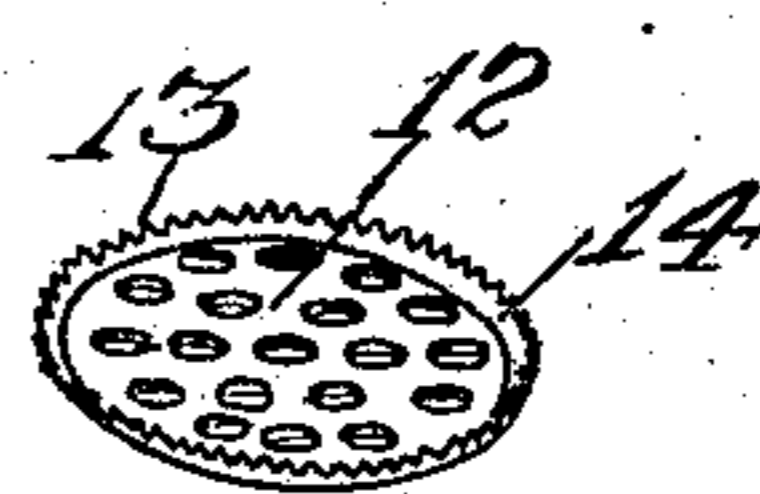
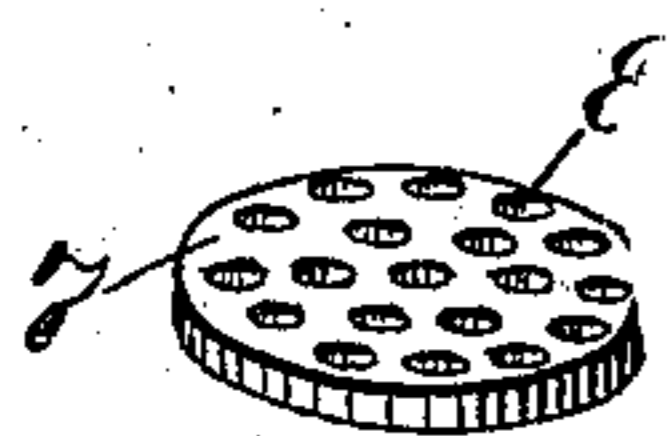
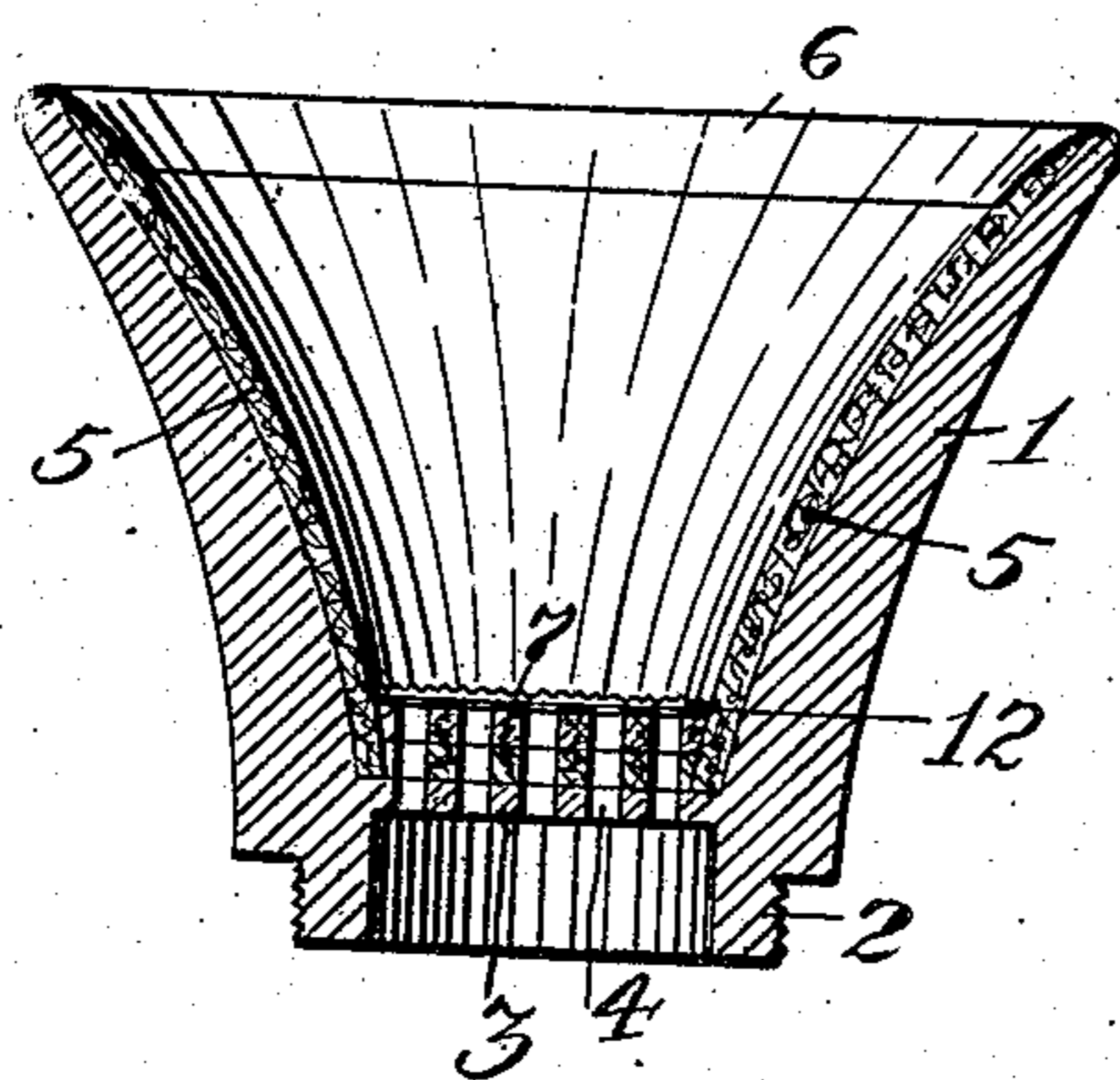
M. S. HUFSCMIDT.  
 ANTISEPTIC MOUTHPIECE FOR TELEPHONES, SPEAKING TUBES, &c.  
 APPLICATION FILED APR. 7, 1906.

900,372.

Patented Oct. 6, 1908.



*Fig. 5.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

MILTON S. HUFSCHMIDT, OF SAN FRANCISCO, CALIFORNIA.

ANTISEPTIC MOUTHPIECE FOR TELEPHONES, SPEAKING-TUBES, &c.

No. 900,372.

Specification of Letters Patent.

Patented Oct. 6, 1908.

Application filed April 7, 1906. Serial No. 310,566.

*To all whom it may concern:*

Be it known that I, MILTON S. HUF-  
SCHMIDT, a citizen of the United States of  
America, and a resident of the city and  
county of San Francisco, in the State of Cali-  
fornia, have invented a new and useful Anti-  
septic Mouthpiece for Telephones, Speaking-  
Tubes, and the Like, of which the following  
is a specification, reference being had therein  
to the accompanying drawing.

As is well known, it is held by physicians  
generally that, on account of the frequent  
use of telephones and other voice instruments  
by different persons who speak and exhale  
their breath into the mouthpieces thereof, the  
germs of disease are, or may be, transmitted  
from one person to another.

It is therefore one of the objects of the  
present invention to provide an antiseptic  
mouthpiece, simple in its construction, which  
will readily absorb any moisture from the  
breath and immediately destroy disease  
germs or any other micro-organisms which  
may lodge in the mouthpiece, as well as to  
perfectly deodorize the same.

Another object of the invention is to pro-  
vide a sanitary mouthpiece which can be  
used indefinitely by the application of an  
antiseptic solution from time to time.

Other objects and advantages of the inven-  
tion will be disclosed in the subjoined descrip-  
tion and explanation.

In the accompanying drawing, Figure 1 is  
a sectional elevation of a telephone mouth-  
piece embodying the invention. Fig. 2 is a  
plan of the same. Fig. 3 is a perspective  
view of a perforated metal disk comprised  
in this improved mouthpiece. Fig. 4 is a  
similar view of a perforated disk of felt used  
in connection with the said metal disk. Fig.  
5 is a sectional elevation of the mouthpiece  
similar to Fig. 1, but comprising a metal disk  
of modified construction. Fig. 6 is a per-  
spective view of the latter named metal disk.

Like numerals of reference designate like  
parts throughout the different views.

1 represents an ordinary mouthpiece for  
telephone transmitters, which is formed with  
a screw thread 2 to engage with a correspond-  
ing screw thread in the transmitter of the  
usual construction. Near its inner end, the  
mouthpiece, which is preferably trumpet  
shaped, is provided with a transverse parti-  
tion, 3, having a series of perforations 4, as  
usual.

The lining 5, which constitutes part of the

invention, is made of felt or other suitable  
absorbent material and is so placed and  
fashioned as to fully cover the inside walls of  
the mouthpiece, extending from the outer  
end thereof to the upper surface of the par-  
tition 3. The outer end of said lining is held  
in position by an annular retaining rim or  
flange 6, which fits snugly around and over  
the edge of the mouthpiece.

At the bottom of the mouthpiece, and rest-  
ing upon the partition, are two or more per-  
forated washers or disks 7, preferably made  
of material similar to the lining 5. The per-  
forations 8 in the disks are made to register  
with the perforations in the partition so as to  
allow the sound to pass freely into the trans-  
mitter. A metal disk 9, also perforated in a  
similar manner, with the exception of two  
threaded screw holes 10, holds the disks 7 in  
position by screws 11 passing through from  
the under side of the partition 3 as shown.  
The disk 9 is preferably made large enough  
to engage with the lining 5 and hold the same  
firm at the bottom.

In the modified form shown in Figs. 5 and  
6, the disks 7 are held in position by a per-  
forated metal disk 12, formed with teeth 13  
in its upturned outer periphery 14. The  
disk is made large enough to embed its teeth  
in the lining 5 and prevent the washers 7 from  
changing their position when the disk has  
been forced down upon them. The mouth-  
piece thus lined at the sides and at the bot-  
tom is ready to receive an antiseptic or dis-  
infectant solution, which is applied to the  
lining from time to time in any desired man-  
ner. The material of the lining being of a  
yielding or non-resonant nature will prevent  
the vibrations of the voice being taken up by  
the material of the mouthpiece and trans-  
mitted to the diaphragm in interference with  
the regular vibrations transmitted to the  
diaphragm direct through the perforations in  
the partition and disks.

Having described my invention, I claim:

1. A mouth piece comprising a hollow  
body, a porous disk extending transversely  
across the interior of the same, and a perfo-  
rated metallic plate located over said disk.

2. A mouth piece comprising a hollow  
body, a porous disk extending transversely  
across the interior of the same, and a perfo-  
rated plate located over said disk and having  
an upturned engaging edge.

3. A mouth piece comprising a hollow  
body, a porous disk extending transversely

across the interior of the same, and a perforated metal plate located over the disk and having a serrated engaging edge.

4. A mouth piece comprising a hollow  
5 body, a porous disk extending transversely across the interior of the same, and a metallic plate located over said disk and having an upturned serrated engaging edge.

5. In a mouthpiece of the character de-  
10 scribed, a hollow trumpet-shaped body adapted to be secured to a transmitter and provided with a perforated partition, a lining of felt extending from the partition to the rim of the body, perforated disks of felt upon the  
15 partition, a perforated disk secured upon the felt disks, and means for fastening the outer portion of the felt lining in position.

6. In a mouthpiece of the character described, a hollow trumpet-shaped body adapted to be secured to a transmitter and provided with a perforated partition, a lining of felt extending from the partition to the outer edge of the body, perforated disks of felt upon the partition, a perforated disk of metal upon the felt disks having its periphery  
25 turned up and provided with teeth adapted to engage with the lining, and means for securing the outer end of the lining in position.

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

MILTON S. HUFSCHMIDT. [L. S.]

Witnesses:

A. H. STE. MARIE,  
L. MEININGER.