

Oct. 13, 1925.

1,556,774

C. FENSKY

AUDIPHONE

Filed May 2, 1923

FIG. 1

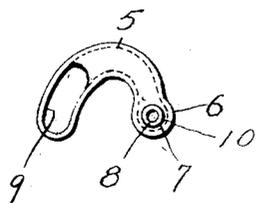


FIG. 2

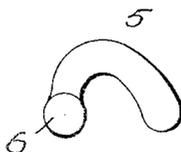


FIG. 3

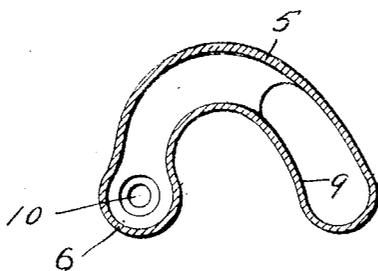
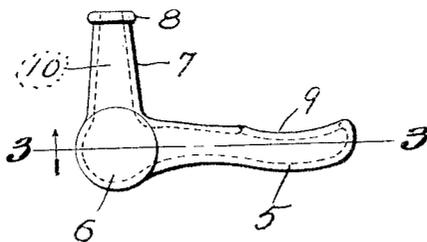


FIG. 4



INVENTOR
CHARLES FENSKY
BY *Edward G. Lutz*
ATTY.

UNITED STATES PATENT OFFICE.

CHARLES FENSKY, OF ST. LOUIS, MISSOURI.

AUDIPHONE.

Application filed May 2, 1923. Serial No. 636,067.

To all whom it may concern:

Be it known that I, CHARLES FENSKY, a citizen of the United States, and resident of the city of St. Louis, and State of Missouri, have invented certain new and useful improvements in Audiphones, of which the following is a specification, containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to improvements in audiphones and has for its primary object a device for improving the hearing which is so constructed as to eliminate sudden in-rushes or increasing pressure of air to the interior of the ear.

A further object is to construct a device for improving the hearing which is adapted to be inserted in the ear and which is so arranged as to prevent dust and other foreign matter from entering and clogging the same.

In the drawings:

Fig. 1 is a side elevation of my device viewing the same from the inside portion; Fig. 2 is a similar view showing the outside portion;

Fig. 3 is an enlarged section taken on the line 3—3 of Fig. 4, and

Fig. 4 is a bottom plan view of Fig. 3.

In the construction of my device I employ a curved member 5 which terminates in a spherical portion 6. The member 5 and spherical portion 6 are made hollow. Extending from the spherical portion 6 is a tapered member 7 which is provided on its end with a rounded edge or bead 8. The member 5 is provided on its inside face with an opening 9 which permits access of sound waves into the hollow portion. The member 5 is approximately circular in cross section through a portion of its length, the portion containing the opening 9 being flattened so as to be substantially elliptic. The projection 7 is provided with a passageway 10 which communicates with the interior of the spherical portion 6.

My device is used in the following manner:—The cylindrical portion 7 is inserted in the ear so that it extends in close proximity to the ear drum while the member 5 fits in the outer ear with the opening 9 lying close against the head within the outer ear and being unexposed. By placing this opening 9 against the head, any sudden in-

rush of air or increase of air pressure due to violent sounds is prevented, and furthermore, the position of this opening prevents dust or other foreign matter from being carried therein by the outside air.

My device is preferably made of metal, such as gold, silver or the like, and may, if found desirable, also be treated with radium. This has been found to be especially beneficial in some cases.

After my device has been placed in the ear, the air therein is practically dormant, in other words, no air currents can enter and any vibration set up is received by the outer ear and imparted to the air within my device and from there carried to the inner ear.

By my construction there are no sharp angles which would cause sudden deflection of the sound waves and consequently no distortion of sound reaches the ear.

My device is intended to eliminate the use of head-phones, speaking trumpets and other unsightly cumbersome devices, and when in use do not inconvenience the wearer and do not attract a great deal of attention to the wearer as is the case with various other devices used for the same purpose.

Having fully described my invention what I claim is:—

1. An audiphone comprising a hollow curved member having an opening in one side and adjacent one end, a hollow spherical portion formed integral with the other end of said member, and a hollow tapered member projecting from said spherical portion, said tapered member and the opening in the curved member being on the same side.

2. An audiphone comprising a curved member terminating at one end in a substantially spherical shaped portion, a tapered member integral with and projecting from said spherical portion at right angles to the axis of the curved member, the curved member, spherical member and tapered member being hollow and communicating with each other, and the curved member provided on one side with an opening communicating with the interior of said member, said opening being arranged on the same side as the tapered member so that when the device is in use, the opening will be turned toward the head of the wearer and not be exposed.

3. An audiphone comprising two hollow portions communicating with and arranged at an angle to each other, one of said portions adapted to be inserted in the ear pas-

sage, and the other portion provided with a closed end and with an unexposed opening, when the device is in use, between the closed end and the first mentioned member.

- 5 4. An audiphone comprising a hollow member closed at both ends, a tubular member secured at an angle to one side of said member and communicating with the interior thereof, said tubular member adapted to be inserted in the ear passage, one of said
- 10 members provided with an opening in its side, which opening is arranged to be unexposed when the device is in use.

5. An audiphone comprising a hollow member closed at both ends, said member provided with a pair of spaced apart openings in one side thereof, a tubular member secured at an angle to said hollow member and surrounding one of said openings, said tubular member adapted to be inserted in the ear passage, and the remaining opening in the hollow member to be unexposed when the device is in operative position.

In testimony whereof I have signed my name to this specification.

CHARLES FENSKY:

61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100