March 25, 1930. J. V. GODBERY 1,752,252

AMPLIFIER

Filed Jan. 16, 1925

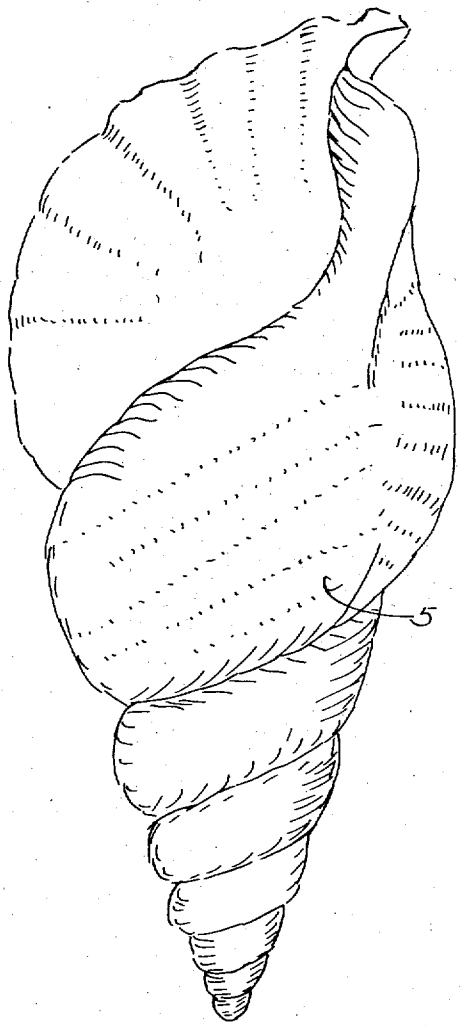


Fig. I.

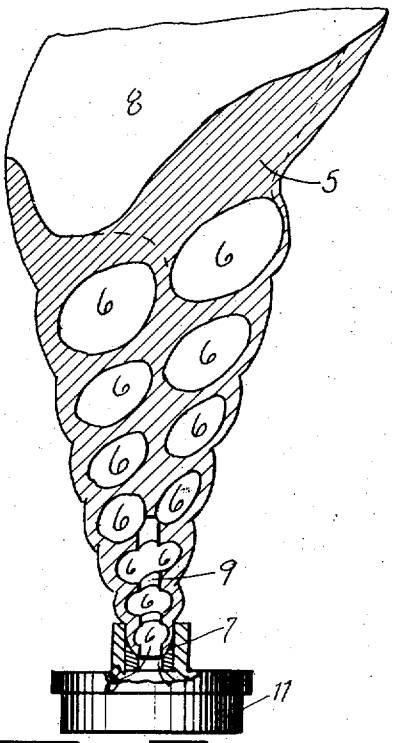


Fig. II.

INVENTOR.

JOSEPH V. GODBERY

BY Victor J. Evans

ATTORNEY

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UNITED STATES PATENT OFFICE

JOSEPH V. GODBERY, OF SAN FRANCISCO, CALIFORNIA

AMPLIFIER

Application filed January 16, 1925. Serial No. 2,890.

This invention relates to improvements in amplifiers and has particular reference to the employment of a shell or similar structure for increasing or amplifying radio reception.

The principal object of this invention is to produce a device which will eliminate the metallic sounds common to many types of loud speakers, due to the vibration of the material out of which the same is made.

Another object is to produce a device of this character which will have a sound chamber closely corresponding to the sound chamber of the human ear.

An additional object is to produce a device of this character which will be artistic and therefore pleasing to the eye, in counter-distinction to the unsightly horn as now generally employed.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a side elevation of my improved amplifier which represents a cockle-shell, and

Figure 2 is a vertical cross section of the same.

In the manufacturing of reproducing amplifying horns, it has been customary to follow the conventional megaphone type, consisting merely of a flared horn. This type of horn gave volume but lacked the proper qualities to produce pleasing tones. I have, therefore, patterned my amplifier after the human ear which amplifier may be constructed from a sea-shell having the serpentine passage therein or may be molded from any suitable material which will not produce objectionable noises in itself.

In the accompanying drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 5 designates the amplifier as a whole which may be molded, cast or otherwise formed or may be a shell and is provided with a passage 6 increasing in size and diameter from the small end 7 toward the opening 8 out of which the sound is projected. This passage is serpentine in form and due to this peculiar form the true qualities of the music being directed therethrough is amplified and projected in all of its purity.

I bore the end of the device so as to form a channel 9 connecting with the lowermost convolution of the passage 6 and to the end 7 I attach a simple reproducing unit 11, which is common to the radio trade. It will be noted that a seat 12 is provided in the reproducing unit for the purpose of readily positioning therein the lower extremity of the amplifier 8, which lower extremity is curved as at 13 to conform to the shape of the seat.

While the device is particularly adapted for use in radio reception, nevertheless, it is to be understood that it may be used in conjunction with phonographs and the like for reproducing sound.

It will thus be seen that I have provided a very simple device which when attached to a reproducer will amplify the vibration being given off by the reproducer without introducing any vibrations from the amplifier itself.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus described my invention, I claim:—

An ornamental radio amplifier comprising a shell body having a tortuous passage formed therein of increasing diameter from end to end and defining a plurality of connected convolutions, and a channel formed in the lower portion of said shell and in communication with the lowermost convolution of the passage.

In testimony whereof I affix my signature.

JOSEPH V. GODBERY.