Nov. 29, 1938. J. A. VOLK 2,138,717

SPEAKER BAFFLE BALL

Filed Oct. 22, 1936

Fig. 1.

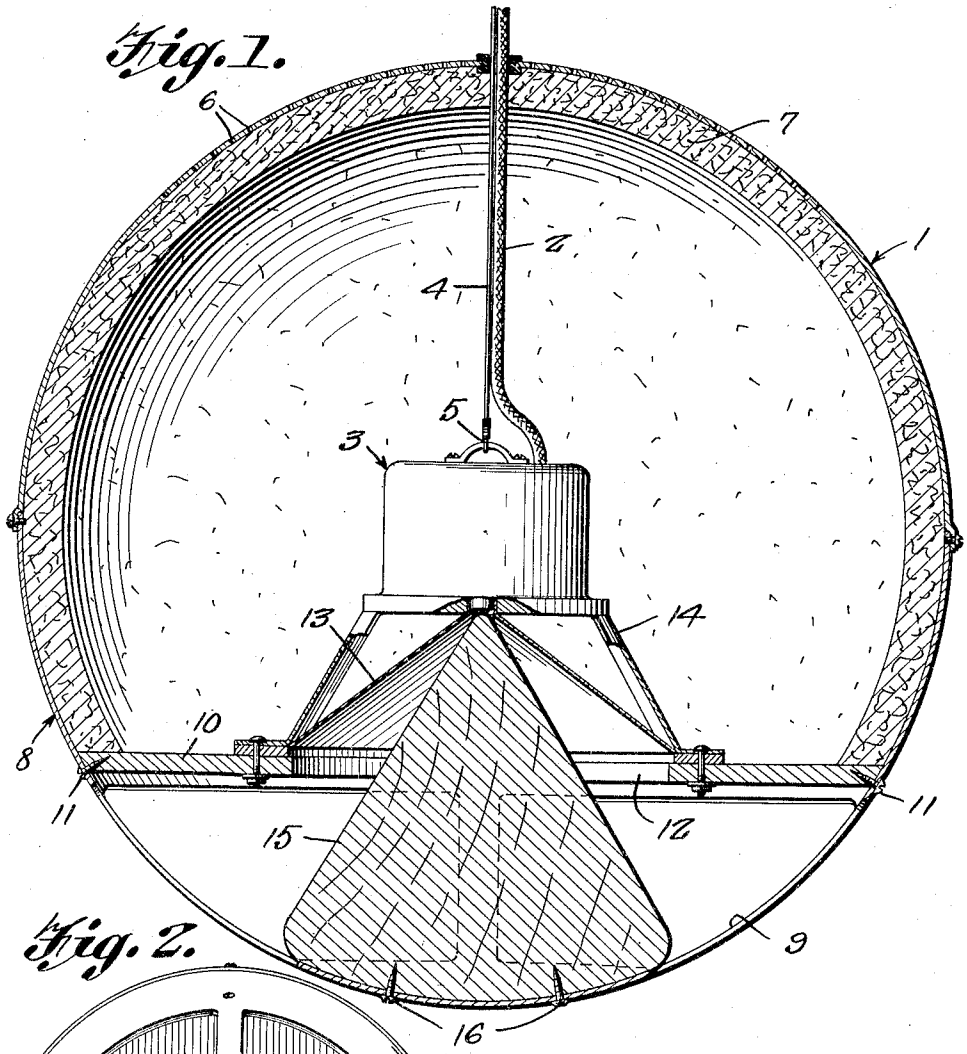
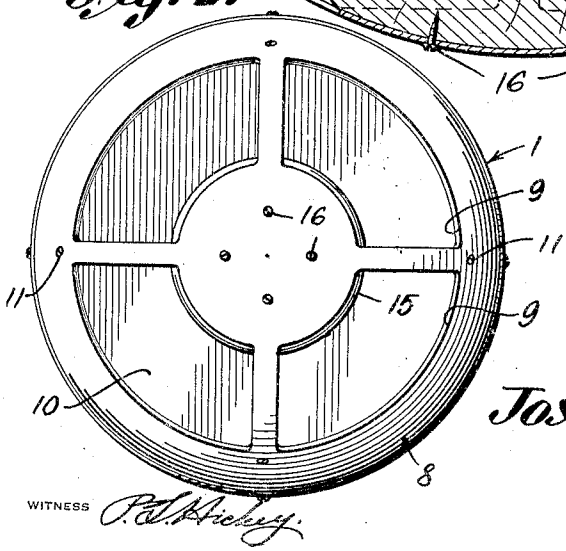


Fig. 2.



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2,138,717

SPEAKER BAFFLE BALL

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Application October 22, 1936, Serial No. 107,018

3 Claims. (Cl. 181—31)

This invention relates to a speaker baffle ball, and has for the primary object the provision of a device of this character which will efficiently operate from a suspended position within large or small halls, auditoriums, churches, etc., and where the placing of speakers of conventional type is impractical and difficult from a standpoint of good coverage and appearance.

With these and other objects in view, this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and acompanying drawing, in which

Figure 1 is a vertical sectional view illustrating a speaker baffle ball constructed in accordance with my invention.

Figure 2 is a bottom plan view illustrating the same.

Referring in detail to the drawing, the numeral 1 indicates a substantially semi-spherical shaped casing or shell constructed of any material suitable for the purpose and has an opening to admit electrical conductors 2 of a speaker 3 and also a suspension cable 4 attached to the speaker, as shown at 5. The casing or shell 1 has a series of perforations 6 and also arranged within the casing or shell is a lining 7 of felt or any other material suitable for the purpose and which extends outwardly of the shell or casing. The lining 7 is of substantially semi-spherical shape.

Detachably secured to the casing or shell is a substantially semi-spherical shaped support 8, which will when applied and secured to the casing or shell cooperate therewith to provide a spherical body, as indicated in Figure 1. The support is provided with sound openings 9 and supports a sound board 10, the latter being suitably secured to the support 8, as shown at 11. The sound board has the usual sound opening 12 over which is positioned the cone 13 of the speaker 3. Brackets 14 are arranged between the speaker 3 and the sound board 10. The lining 7 abuts the sound board, as clearly shown in Figure 1 by extending into the support from the shell 1.

A conical-shaped element 15 is carried by the support 8 and is detachably secured thereto, as shown at 16. The element 15 protrudes through the opening 12 of the sound board 10 and terminates within the cone 13. The apex of the element 15 is located adjacent to the usual diaphragm of the speaker. The element 15 acts to distribute the sound from the speaker through the openings 9 and is preferably constructed of wood or may be made of any other material suitable for the purpose. The casing or shell 1, as well as the support 8, may be constructed of any material suitable for the purpose. The perforations in the shell are to permit a natural leakage of air through said shell which tends to equalize the air pressure within the shell with the air outside of the shell. The lining 7 is employed in the shell to act as an absorption means which effectively reduces the reflection from the inside wall of the shell to a minimum so as not to be detrimental to the action of the speaker.

A device of the character described may be readily supported in a suspended position and is capable of efficient coverage and neat in appearance and is specially useful where speakers of conventional construction are impractical or difficult for use.

Having described the invention, I claim:

1. A speaker baffle ball comprising a substantially semi-spherical shaped shell, a speaker in said shell, a lining extending into said shell and covering the inner wall of the shell and conforming to the latter, a support secured on the shell and receiving therein a portion of the lining, and a sound board secured on said support and abutting the lining and having the speaker mounted thereon.

2. A speaker baffle ball comprising a substantially semi-spherical shaped shell, a speaker in said shell and including a cone, a lining extending into said shell and covering the inner wall thereof and conforming to the contour of said shell, a substantially semi-spherical shaped support secured on the shell and receiving a portion of the lining, a sound board secured on said support and abutting the lining and having the speaker mounted thereon, said sound board having an opening with the cone of the speaker positioned thereover, said support having sound openings, and means carried by the support and extending through the sound opening of the sound board and terminating within the cone of the speaker to distribute sounds through the sound openings of the support.

3. A speaker baffle ball comprising a substantially semi-spherical shaped shell, a speaker in said shell and including a cone, a lining extending into said shell and covering the inner wall thereof and conforming to the contour of said shell, a substantially semi-spherical shaped support secured on the shell and receiving a portion of the lining thereon, a sound board secured on said support and abutting the lining and having the speaker mounted thereon, said sound board having an opening with the cone of the speaker positioned thereover, said support having sound openings, and a conical-shaped member mounted on the support and extending through the sound opening of the sound board with its apex end terminating within the cone of the speaker and acting to distribute sounds from the speaker through the sound openings of the support.

JOSEPH A. VOLK.