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Askins

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[54] **LOUDSPEAKER SYSTEM WHICH PRODUCES STEREO-LIKE SOUNDS**

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[52] **U.S. Cl.** ..... **181/145,** 181/148, 179/1 GP

[51] **Int. Cl.** **H04r 1/28,** G10k 13/00

[58] **Field of Search** ..... 181/31 B, 31 R, 145, 148; 179/1 GP, 1 E

[56] **References Cited**

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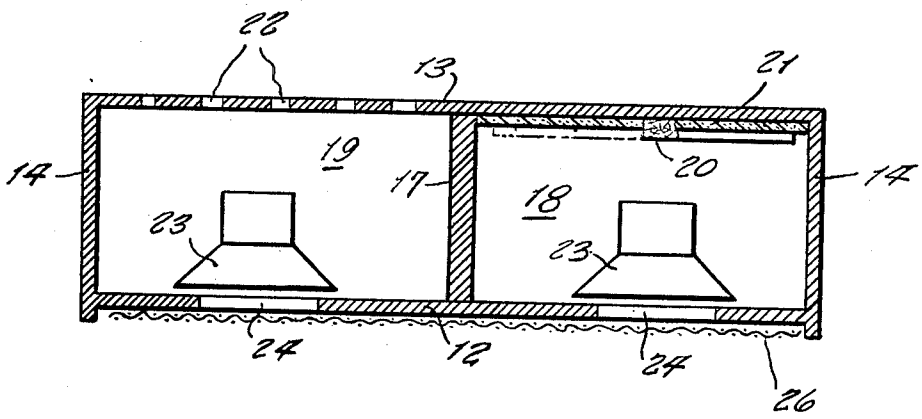
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Attorney, Agent, or Firm—Jacob L. Kollin

[57] **ABSTRACT**

An improved loud speaker system which when connected to a monophonic electronic source will produce a stero-like sound. The system consists of a speaker cabinet which is divided into two separate chambers by means of a central partition. Each chamber contains a loudspeaker behind openings in the front wall. The front wall is covered on its outer side by acoustical grill cloth. The loudspeakers are electrically connected in a parallel circuit. One of the chambers is sealed on all sides while the other chamber has a series of openings through its rear wall.

3 Claims, 3 Drawing Figures



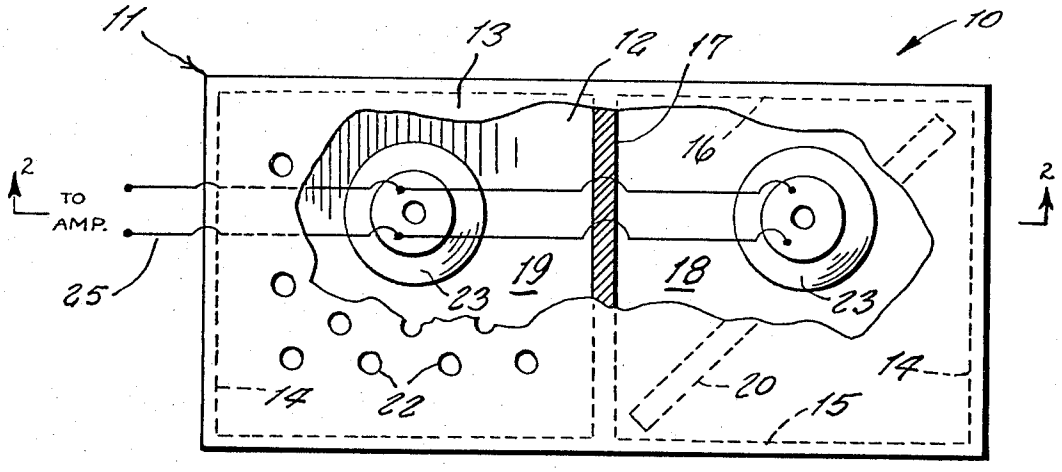


Fig. 1

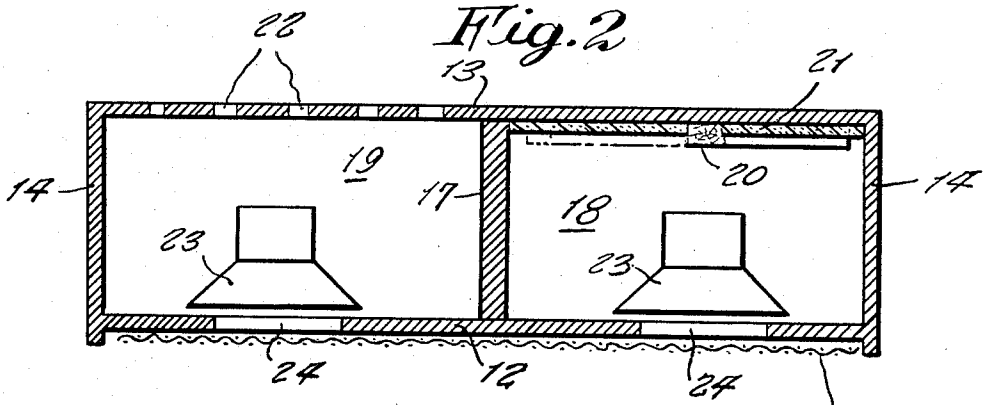


Fig. 2

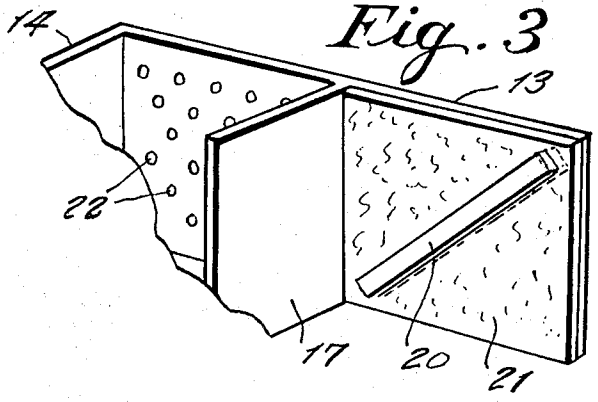


Fig. 3

LOUDSPEAKER SYSTEM WHICH PRODUCES STEREO-LIKE SOUNDS

BACKGROUND OF THE INVENTION

This invention relates generally to acoustical sound systems. More specifically it relates to speaker cabinets.

A principal object of the present invention is to provide a loudspeaker system which is capable to produce stereo-like sound when the system is coupled to a monophonic electronic source.

Another object is to provide a loud speaker system which is suitable for systems wherein either a minimal or large number of loud speakers are employed.

Other objects are to provide a loud speaker system which is simple to design, inexpensive to manufacture, rugged in construction, easy to use and efficient in operation.

Further objects of the invention will appear as the description proceeds.

To the accomplishment of the above and related objects, this invention may be embodied in the form illustrated in the accompanying drawings, attention being called to the fact, however, that the drawings are illustrative only, and that changes may be made in the specific construction illustrated and described within the scope of the appended claims.

FIG. **1** is a rear elevation view of the invention, and showing the rear wall partly broken away so as to illustrate the internal construction;

FIG. **2** is a cross-sectional view taken on line **2**—**2** of FIG. **1**;

FIG. **3** is a perspective view showing fragmentarily the construction so as to illustrate the inner side of the rear wall.

Referring now to the drawing in detail, the reference numeral **10** represents a loud speaker system according to the present invention wherein the same includes a cabinet **11** made of wooden panels so as to form an enclosure, the panels comprising a front wall **12,** rear wall **13,** opposite side walls **14,** bottom wall **15** and top wall **16.**

A central partition **17,** also of wooden panels divides the cabinet interior into two chambers **18** and **19.** All the panels are rigidly secured together so as to form a unitary structure that is free of any undesirable rattling vibration. Additionally, one of the chambers **18** which forms a sealed chamber, has a wooden brace **20** secured by glue or the like to the inner side of the rear wall for the purpose of further minimizing vibrations, the brace **20** extending diagonally between opposite corners, so as to be of maximum length. The remainder of the rear wall inner side within chamber **18** is covered by fiberglass wool **21** secured thereto by glue.

The other chamber **19** is not a sealed chamber, and as shown has its rear wall perforated with a series of openings **22** therethrough.

Within each chamber **18** and **19,** a loudspeaker **23** is mounted to a rear side of the front wall **12,** there being an opening **24** through the front wall in front of each

loudspeaker for the dispersal of sound waves outward from the speakers.

The loudspeakers are connected by wiring **25** in parallel electrical circuit, as shown, the wiring extending outwardly at the cabinet to a suitable electronic source.

The front or outer side of the front wall **12** is covered by a grill **26** that is made of acoustical cloth or the like.

In operative use, it is now evident that electronic impulses from a monophonic electronic source delivered to a speaker within a sealed chamber and to another speaker in a vented chamber results in different sound resonance from each, so that the result is a stereo-like effect to a listener.

It is to be understood that the construction may be varied from that which is presented in the drawing.

For example, the perforated openings **22** may not necessarily be on a rear wall but may possibly be on any of the other sides of the chamber. The number of loudspeakers in each chamber may be varied and are not limited to a single speaker. For example, in one chamber, two loudspeakers might be connected to each other by a crossover network, and in the other chamber two other loudspeakers may likewise be connected to each other by a crossover network, so long as the final output of the two loudspeakers within one chamber are connected with the final output of the two speakers of the other chamber, these final outputs connected in a parallel circuit to each other and extend outward of the chamber. Braces such as brace **20** may be applied to other walls of chamber **18,** as necessary.

While certain novel features of this invention have been shown and described and are pointed out in the annexed claims, it will be understood that various omissions, substitutions and changes in the forms and details of the device illustrated and in its operation can be made by those skilled in the art without departing from the spirit of the invention.

What I claim as new and desire to secure by Letters Patent is:

1. In a loudspeaker system which produces stereo-like sound when connected to a monophonic electronic source, the combination of a cabinet having an interior divided by a partition into two laterally disposed adjacent chambers directly radiating, loudspeakers in each said chamber, one of said chambers being a sealed chamber and the other being vented.

2. The combination as set forth in claim **1,** wherein both said two adjacent laterally disposed separate chambers have said loudspeakers mounted on a rear side of a front wall thereof, each front wall having an opening through in front of each said loudspeaker, the remainder of said sealed chamber being closed, while the said vented chamber has a series of perforated openings through one or more of different walls thereof.

3. The combination as set forth in claim **2,** wherein braces and fibreglass wool are employed on any walls of said sealed chamber, so as to minimize reverberation.

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