

LOUDSPEAKER

Technical Field

[0001] The present invention relates to the technical field of loudspeaker technology.

Background

[0002] As illustrated in Figure 1, the speaker body 10 of the current loudspeaker includes: bracket 11, vibrating diaphragm 12 and a dangling edge 13 which connects between the bracket and the vibrating diaphragm. Wherein the bracket 11 is directly connected with the loudspeaker box (not shown in the figure) fixed. When the loudspeaker sound, that is the vibrating diaphragm 12 and the dangling edge 13 of the speaker moves following the airflow, a resonance will be formed between the speaker body 10 and the loudspeaker box as the speaker body 10 is fixed to the loudspeaker box, which will affect the sound quality of the loudspeaker.

Content of the invention

[0003] Therefore, the technical problem to be solved for the present invention is: providing a loudspeaker in order to generate no resonance between the loudspeaker body and the speaker body when the speaker sound and further improve the sound quality of the loudspeaker.

[0004] Hence, the present invention disclosed a loudspeaker which includes a loudspeaker box and a speaker body placed inside the loudspeaker box, the speaker body including a bracket, a vibrating diaphragm and a dangling edge which connects between the bracket and the vibrating diaphragm, wherein a flexible and elastic outer edging is provided between the loudspeaker box and the bracket, which forms a resonance chamber between the loudspeaker box and the bracket.

[0005] One side of the said elastic outer edging is connected to the said loudspeaker box, while the other is connected to the said bracket.

[0006] The loudspeaker of the present invention forms a resonance chamber between the loudspeaker box and the bracket by setting a flexible and elastic outer edging between the loudspeaker box and the bracket, which not only overcomes the disadvantages brought by the resonance of the speaker body and the loudspeaker box in the existing technology, but it also improves the sound quality of the loudspeaker.

BRIEF DESCRIPTION OF FIGURES

[0007] Figure 1 is a section view about the structure of loudspeaker in the prior art;

[0008] Figure 2 is a section view about the structure of the loudspeaker disclosed by the embodiment of the present invention;

[0009] Figure 3 is an explosive sectional view of the loudspeaker shown in Figure 2;

[0010] Figure 4 is a top view about the structure of the loudspeaker shown in Figure 2.

Detailed description of the embodiments

[0011] Detailed description will be given in conjunction with the accompanying drawings of the present invention in the following text.

[0012] As illustrated in Figure 2 to Figure 4, the present embodiment presents a loudspeaker comprising: a loudspeaker box(not shown in the figure)and a speaker 20 placed inside the loudspeaker box, the speaker 20 including a bracket 21, a vibrating diaphragm 22 and a dangling edge 23 which connects between the bracket and the vibrating diaphragm, wherein a flexible and elastic outer edging 30 is provided between the loudspeaker box and the bracket 21, which forms a resonance chamber between the loudspeaker box and the bracket 21.

[0013] One side of the said flexible and elastic outer edging 30 is connected to the loudspeaker box, while the other is connected to the bracket 21. The connection described here, can be a fixed connection or an adhesive.

[0014] The loudspeaker of the present utility model forms a resonance chamber between the loudspeaker box and the bracket as the join of the flexible and elastic outer edging. So the speaker body can move with the movement of airflow, which not only overcome the extra harmonic generated from the resonance of the speaker body and the loudspeaker box, but it also improve the sound quality of the loudspeaker as a resonance chamber formed between the loudspeaker box and speaker body.

[0015] loudspeaker box can be round, square or any other shape according to actual requirements.

[0016] The loudspeaker of the present utility model forms a resonance chamber between the loudspeaker box and the bracket by setting a flexible and elastic outer edging between the loudspeaker box and the bracket, which not only overcome the disadvantages brought by the resonance of the speaker body and the loudspeaker box in the existing technology, but it also improve the sound quality of the loudspeaker.

[0017] The context mentioned above is only a preferred embodiment of the present invention and it shall not be deemed as the limitation of the invention. Any modifications, substitution to same object, improvements within the spirit and principles of the present invention shall be in the scope of the protection.

CLAIMS

1. A loudspeaker, including a loudspeaker box and a speaker body placed inside the loudspeaker box, the speaker body including a bracket, a vibrating diaphragm and a dangling edge which connects between the bracket and the vibrating diaphragm, wherein a flexible and elastic outer edging is provided between the said loudspeaker box and the said bracket, which forms a resonance chamber between the said loudspeaker box and the said bracket.
2. The loudspeaker according to Claim 1, wherein one side of the said elastic outer edging is connected to the said loudspeaker box, while the other is connected to the said bracket.\