

Title (en)

Method of compensating for a change in sound pressure characteristic with temperature of an electroacoustic transducer

Title (de)

Kompensationsverfahren für die Änderung in der Schalldruckcharakteristik eines elektroakustischen Wandlers mit der Temperatur

Title (fr)

Procédé de compensation pour la variation de la caractéristique de la pression du son avec température d'un transducteur électroacoustique

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Application

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Abstract (en)

[origin: EP0576216A2] The invention provides a method of compensating for a change in sound pressure characteristic with temperature of an electroacoustic transducer utilizing the tendency of resonance frequencies (f_o) and (f_v) to vary with temperature. The method according to the invention is, in an electroacoustic transducer comprising a diaphragm disposed within a casing, a resonance chamber provided on the front side of the diaphragm, a driving source provided on the back side of the diaphragm, the diaphragm being vibrated by the driving source to produce a sound to be emitted through the resonance chamber, characterized in that the resonance frequency (f_v) of the resonance chamber is set lower ($f_v < f_o$) than the resonance frequency (f_o) of the diaphragm. According to the invention, with the resonance frequency of the resonance chamber set lower than the resonance frequency of the diaphragm, a magnetic driving force of the driving source is increased at high temperatures to compensate for a decrease in sound pressure while it is decreased at low temperatures to compensate for an increase in sound pressure, thereby compensating for a change in sound pressure characteristic with temperature. <IMAGE>

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