

Publication

**EP 0576216 A3 19940831**

Application

**EP 93304780 A 19930618**

Priority

JP 18613892 A 19920620

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>

IPC 1-7

**G10K 9/18**

IPC 8 full level

**G10K 9/13** (2006.01); **G10K 9/18** (2006.01); **H04R 1/28** (2006.01); **H04R 13/00** (2006.01)

CPC (source: EP)

**G10K 9/18** (2013.01)

Citation (search report)

[A] GB 2041616 A 19800910 - IBUKI KOGYO CO LTD

Cited by

EP1120995A3; EP3382691A1; CN108696802A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0576216 A2 19931229**; **EP 0576216 A3 19940831**; **EP 0576216 B1 19990317**; CN 1038095 C 19980415; CN 1083300 A 19940302; DE 69323930 D1 19990422; DE 69323930 T2 19990826; JP H066899 A 19940114

DOCDB simple family (application)

**EP 93304780 A 19930618**; CN 93107429 A 19930619; DE 69323930 T 19930618; JP 18613892 A 19920620