

Title (en)
Speaker system

Title (de)
Lautsprechersystem

Title (fr)
Système haut-parleur

Publication
EP 0613317 B1 19980805 (EN)

Application
EP 94102600 A 19940221

Priority
JP 3503793 A 19930224

Abstract (en)
[origin: EP0613317A1] The speaker system of the invention comprises an acoustic tube with one end coupled to the back side of the speaker unit and the other end released to a sound field space through an opening window, and at least one air chamber is disposed on the way of the route of the acoustic tube, in which the sectional area of the air chamber is set larger than the sectional area of the acoustic tube, and the sectional area of the opening window is set smaller than the sectional area of the acoustic tube, and therefore the air chamber composes an acoustic filter so that the resonance frequency components of high degree in the acoustic tube may not be radiated from the opening window, and formation of peaks and bottoms of frequency characteristic due to interference with the sound radiated from the front side of the speaker is prevented. The opening window of a small sectional area lowers the resonance frequency of the acoustic tube. The speaker system of the invention according to an other embodiment, comprises an acoustic tube with one end coupled to the back side of the speaker unit and the other end released to a sound field space through an opening window, and at least one branch chamber; the branch chamber possessing different route lengths causes a phase difference in the acoustic tube to cancel the resonance in the acoustic tube, so that formation of peaks and bottoms in the frequency characteristic may be prevented. <IMAGE>

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H04R 1/28

IPC 8 full level
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H04R 1/2857 (2013.01)

Cited by
EP2775734A3; GB2513986B; GB2333927A; GB2333927B; GB2298758A; GB2298758B; US9716940B2; US6356643B2; EP2976892B1

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