

Title (en)
METHOD AND SYSTEM FOR DRIVING SPEAKERS WITH A 90 DEGREE PHASE SHIFT

Title (de)
VERFAHREN UND VORRICHTUNG ZUM TREIBEN VON LAUTSPRECHERN MIT EINER 90 GRADPHASENVERSCHIEBUNG

Title (fr)
PROCEDE ET SYSTEME DE HAUT-PARLEUR A DECALAGE DE PHASE DE 90 DEGRES

Publication
EP 1042866 A4 20030618 (EN)

Application
EP 98966031 A 19981221

Priority
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• US 6871697 P 19971223

Abstract (en)
[origin: WO9933173A1] A method and system for providing enhanced coupling of a stereophonic pair of full-range loudspeakers (5, 6) or subwoofers (8, 9) to all room modes of a laterally symmetric listening room wherein the preferred location of a listener is on the lateral center line thereof, by applying the left and right audio signals (30, 32) or the low frequency components thereof through a pair of all-pass phase shift networks having an in-phase relationship at low audio frequencies where localization is not possible. The method and system may further be compensated by a 3 dB bass boost in each channel to provide the same sound pressure level at low frequencies as would occur with a pair of subwoofers (8, 9) placed together in one corner of the room and driven in phase, thereby ensuring a constant sound pressure level along the lateral center line of the listening room at all audio frequencies.

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H04S 1/002 (2013.01); **H04S 7/307** (2013.01)

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• [X] US 4841572 A 19890620 - KLAYMAN ARNOLD I [US]
• [A] US 4403112 A 19830906 - MODAFFERI RICHARD [US]
• [A] US 5172415 A 19921215 - FOSGATE JAMES W [US]
• See references of WO 9933173A1

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