

Title (en)

LOUDSPEAKER ARRAY FOR ENLARGED SWEET SPOT

Title (de)

LAUTSPRECHERANORDNUNG ZUR VERGRÖßERUNG DES IDEALEN PUNKTES

Title (fr)

ENCEINTE ACOUSTIQUE PERMETTANT D'AMPLIFIER LE POINT IDEAL

Publication

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Application

EP 98924945 A 19980528

Priority

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Abstract (en)

[origin: WO9854926A1] The invention is a method of creating an enlarged listening sweet spot for multiloudspeaker audio reproduction. The method employs a plurality of audio drivers (52, 56) displaced generally in a horizontal dimension for a vertically oriented head of a listener (60), the drivers operating over a plurality of different passbands (42, 46). Higher frequency drivers (55, 59) are located closer to one another and displaced more towards a center line of the listening space than lower frequency drivers (53, 57), thereby causing a smaller change in acoustic ear signals for listeners (60) seated away from the designed-for listening position, but without causing increased low frequency signal capacity requirements for phantom images generally outside the array (50). Specially adapted signal processing accounting for the layout of the various drivers and their associated crossover networks (40) is employed to create desired audio images.

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IPC 8 full level

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Citation (search report)

- [XY] WO 9633591 A1 19961024 - BSG LAB INC [US]
- [YA] BAUCK J ET AL: "Developments in transaural stereo", APPLICATIONS OF SIGNAL PROCESSING TO AUDIO AND ACOUSTICS, 1993. FINAL PROGRAM AND PAPER SUMMARIES., 1993 IEEE WORKSHOP ON NEW PALTZ, NY, USA 17-20 OCT. 1993, NEW YORK, NY, USA, IEEE, 17 October 1993 (1993-10-17), pages 114 - 117, XP010130065, ISBN: 0-7803-2078-6
- See references of WO 9854926A1

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