

Title (en)

A method of processing a plural channel audio signal

Title (de)

Verfahren zur Mehrkanal-Tonsignalverarbeitung

Title (fr)

Procedé de traitement d'un signal audio à plusieurs canaux

Publication

EP 0975201 B1 20130410 (EN)

Application

EP 99305562 A 19990712

Priority

GB 9816059 A 19980724

Abstract (en)

[origin: EP0975201A2] A method of processing a plural channel audio signal representing a three dimensional sound-field for generation by respective left and right loudspeakers arranged at a given distance from a listener, including:- a) choosing a distance between said loudspeakers and said listener; b) determining from this chosen distance an optimal amount of transaural crosstalk compensation, the optimal amount being a function of the chosen distance; and c) applying said optimal amount of crosstalk compensation to said left and right channels. The optimal transaural crosstalk cancellation is preferably achieved using a near ear response transfer function and a far ear response transfer function which asymptotically approach different values at low frequencies. The method may further include choosing an angle between the left channel loudspeaker and the right channel loudspeaker, and determining from both the chosen angle and the chosen distance an optimal amount of transaural crosstalk compensation. <IMAGE>

IPC 8 full level

H04R 5/02 (2006.01); **H04S 1/00** (2006.01); **H04R 3/12** (2006.01)

CPC (source: EP)

H04S 1/002 (2013.01)

Citation (examination)

- WO 9820707 A1 19980514 - CENTRAL RESEARCH LAB LTD [GB], et al
- EP 0730812 A1 19960911 - CENTRAL RESEARCH LAB LTD [GB]

Cited by

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DOCDB simple family (publication)

EP 0975201 A2 20000126; **EP 0975201 A3 20050608**; **EP 0975201 B1 20130410**; GB 2340005 A 20000209; GB 2340005 B 20030319; GB 9816059 D0 19980923; JP 2000059892 A 20000225

DOCDB simple family (application)

EP 99305562 A 19990712; GB 9816059 A 19980724; JP 21055099 A 19990726