

Title (en)
SURROUND-SOUND SYSTEM

Publication
EP 0323830 A3 19910724 (EN)

Application
EP 89100047 A 19890103

Priority
US 14157088 A 19880106

Abstract (en)
[origin: EP0323830A2] Spectral imbalance (alteration in timbre) when playing home video versions of motion pictures is overcome by re-equalization according to a unique correction response curve which compensates for the equalization for playback in large theater-sized auditoriums inherent in motion picture soundtracks. Surround-sound home playback of motion pictures is enhanced by employing main channel loudspeakers that produce generally direct sound fields and surround channel loudspeakers that produce generally diffuse sound fields. Preferably, further equalization is applied to the reproduced surround channel to compensate for the differences in perceived timbre between direct and diffuse sound fields. In addition, the reproduced surround-sound channel is further enhanced by decreasing the interaural cross-correlation of the surround-sound channel sound field at listening positions within the room, preferably by introducing slight pitch shifting in the signals applied to multiple surround loudspeakers.

IPC 1-7
H04S 3/00

IPC 8 full level
H04S 5/02 (2006.01); **H04S 3/02** (2006.01); **H04S 5/00** (2006.01); **H04S 7/00** (2006.01)

CPC (source: EP KR)
H04S 3/00 (2013.01 - KR); **H04S 3/02** (2013.01 - EP); **H04S 5/00** (2013.01 - EP); **H04S 7/307** (2013.01 - EP)

Citation (search report)

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- [A] GB 2006583 A 19790502 - DOLBY LAB LICENSING CORP
- [A] FUNKSCHAU, vol. 58, no. 17, August 1986, pages 88-92, Munich, DE; "Live-Atmosphäre von der Videokassette"
- [AD] JOURNAL OF THE AUDIO ENGINEERING SOCIETY, vol. 23, no. 3, April 1975, pages 178-186, New York, US; R.B. SCHULEIN: "In situ measurement and equalization of sound reproduction systems"

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