

Title (en)  
Surround-sound system.

Title (de)  
Räumliches Schallwiedergabesystem.

Title (fr)  
Système sonore à effet spatial.

Publication  
**EP 0323830 B1 19950329 (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)

Cited by  
EP0404117A3

Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0323830 A2 19890712; EP 0323830 A3 19910724; EP 0323830 B1 19950329**; AT E120605 T1 19950415; AU 2776989 A 19890706; AU 624347 B2 19920611; CA 1310919 C 19921201; DE 68921899 D1 19950504; DE 68921899 T2 19950921; JP 2727339 B2 19980311; JP H02141100 A 19900530; KR 890012501 A 19890826

DOCDB simple family (application)  
**EP 89100047 A 19890103**; AT 89100047 T 19890103; AU 2776989 A 19890106; CA 587537 A 19890105; DE 68921899 T 19890103; JP 82589 A 19890105; KR 890000155 A 19890106