

Title (en)  
A LOUDSPEAKER SYSTEM HAVING AT LEAST TWO LOUDSPEAKER DEVICES AND A UNIT FOR PROCESSING AN AUDIO CONTENT SIGNAL

Title (de)  
LAUTSPRECHERSYSTEM MIT MINDESTENS ZWEI LAUTSPRECHEREINRICHTUNGEN UND EINER EINHEIT ZUM VERARBEITEN EINES AUDIOINHALTSIGNALS

Title (fr)  
SYSTÈME DE HAUT-PARLEURS POSSÉDANT AU MOINS DEUX DISPOSITIFS HAUT-PARLEURS ET UNE UNITÉ POUR TRAITER UN SIGNAL DE CONTENU AUDIO

Publication  
**EP 2050303 A2 20090422 (EN)**

Application  
**EP 07789646 A 20070712**

Priority  
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Abstract (en)  
[origin: WO2008010086A2] A loudspeaker system includes at least two stand-alone multiple loudspeaker devices (1L, 1R), each comprising a frame (3) with a horizontally oriented array (5) of first loudspeakers (7) for reproducing sound in a higher frequency range The system further includes a second loudspeaker (11) for reproducing sound in a lower frequency range, the frequency ranges having a crossover frequency  $f_{c}$  The first loudspeakers each have a first radiation surface (9) of maximal  $1000\text{ mm}^2$  and the second loudspeaker has a second radiation surface (13) In each device (1L, 1R) a central area (9a) of each first radiation surface being situated at a vertical distance d, from a central area (13a) of the second radiation surface wherein  $750\text{ Hz} \leq f_{c} \leq 3000\text{ Hz}$  and  $d \leq 2 \cdot \lambda$ , wherein  $\lambda$  is the wavelength of the reproduced sound at the crossover frequency and wherein d is minimal 75 mm and maximal 3000 mm The system also includes a means for processing an audio content signal to generate individual signals for input to the first loudspeakers resulting, during use of the system, in a directional acoustic signal of the array of first loudspeakers of each device This system is able to reproduce sound of high fidelity qualification

IPC 8 full level  
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