

Title (en)  
Combination loudspeaker unit

Title (de)  
Kombinierte Lautsprechereinheit

Title (fr)  
Unité de haut-parleur combinée

Publication  
**EP 1408717 B1 20060301 (EN)**

Application  
**EP 03255099 A 20030818**

Priority  
• GB 0219245 A 20020817  
• GB 0317445 A 20030725

Abstract (en)  
[origin: EP1408717A2] A loudspeaker unit comprises, in combination, a pistonically driven diaphragm loudspeaker and a generally planar resonant panel loudspeaker, in which the plane of the resonant panel lies in the same orientation as an axis along which the diaphragm is pistonically driven. The resonant panel loudspeaker may be located behind the diaphragm loudspeaker, with the resonant panel loudspeaker functioning as a diffuse dipole, e.g. to generate surround sound reproduction, and the diaphragm loudspeaker located in the null of the dipole and functioning as an acoustic monopole, e.g. to generate imaged stereophonic sound reproduction. <IMAGE>

IPC 8 full level  
**H04R 7/04** (2006.01); **H04R 1/24** (2006.01); **H04R 1/26** (2006.01)

CPC (source: EP GB)  
**H04R 1/24** (2013.01 - EP GB); **H04R 7/045** (2013.01 - EP); **H04R 1/26** (2013.01 - EP); **H04R 1/323** (2013.01 - GB); **H04R 7/045** (2013.01 - GB); **H04R 2205/022** (2013.01 - EP); **H04R 2440/07** (2013.01 - EP)

Cited by  
US9060226B2; EP1814354A1; WO2006114645A1

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DOCDB simple family (publication)  
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