

Title (en)  
METHOD OF MOUNTING LOUDSPEAKERS AND DEVICE THEREFOR

Publication  
**EP 0474167 A3 19921014 (EN)**

Application  
**EP 91114778 A 19910902**

Priority  
JP 23363290 A 19900904

Abstract (en)  
[origin: EP0474167A2] A loudspeaker (5) is mounted on the surface board of a ceiling with front and back sides by: forming in the surface board an opening (1) for mounting the speaker (5); preparing an annular back plate (3) of deformable construction and of a size, in undeformed state, greater than the opening size; deforming the back plate into a shape in which it can be passed through the opening; passing the deformed back plate (3) through the opening (1) from the front side to the back side; restoring the back plate to its undeformed state; placing the speaker in mounting position over and in the opening and against the board on its front side; and connecting the speaker (5) and back plate (3) to clamp the board therebetween and thereby to securely mount the speaker. The entire procedure is carried out efficiently from the front side of the surface material, whereby there is no necessity of a separate access to the back side. <IMAGE>

IPC 1-7  
**H04R 1/02**

IPC 8 full level  
**H04R 1/02** (2006.01)

CPC (source: EP)  
**H04R 1/025** (2013.01); **H04R 2201/021** (2013.01)

Citation (search report)  
• [A] US 4853966 A 19890801 - SKRZYCKI GARY E [US]  
• [A] US 2943137 A 19600628 - WYNGARDEN CLARENCE R VAN  
• [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 33 (E-476)3 January 1987 & JP-A-61 201 597 ( MATSUSHITA ) 6 September 1986  
• [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 118 (M-806)23 March 1989 & JP-A-63 293 338 ( NOK ) 30 November 1988

Cited by  
GB2559390A; EP2214417A4; DE19839598A1; DE19839598C2; CN108759960A; US7331847B2; US10511797B2; WO2017202143A1

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

DOCDB simple family (publication)  
**EP 0474167 A2 19920311; EP 0474167 A3 19921014**

DOCDB simple family (application)  
**EP 91114778 A 19910902**