

Title (en)  
Electrodynamic loudspeaker.

Title (de)  
Elektrodynamischer Lautsprecher.

Title (fr)  
Haut-parleur électrodynamique.

Publication  
**EP 0350652 A1 19900117 (DE)**

Application  
**EP 89110971 A 19890616**

Priority  
CH 272788 A 19880715

Abstract (en)  
In such a loudspeaker having several loudspeaker units (13, 14, 15) which are connected to a frequency filter (3) via one power amplifier each (10, 11, 12), power amplifiers having a negative source impedance (-R<sub>i</sub>) are proposed which reduce the linear and non-linear distortions to such an extent that the application of modern filters becomes possible and further measures for reducing non-linear distortions become applicable. <IMAGE>

Abstract (de)  
Bei einem solchen Lautsprecher mit mehreren Lautsprechereinheiten (13, 14, 15), die ueber je einen Leistungsverstaerker (10, 11, 12) an eine Frequenzweiche (3) angeschlossen sind, werden Leistungsverstaerker mit negativer Quellenimpedanz (-R<sub>i</sub>) vorgeschlagen, die die linearen und nichtlinearen Verzerrungen soweit verringern, dass die Anwendung von modernen Weichen moeglich wird und weitere Massnahmen zur Verringerung von nicht linearen Verzerrungen sinnvoll werden.

IPC 1-7  
**H04R 3/08**

IPC 8 full level  
**H04R 3/08** (2006.01); **H04R 3/14** (2006.01); **H04R 9/04** (2006.01)

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**H04R 3/08** (2013.01 - EP US); **H04R 3/14** (2013.01 - EP US); **H04R 9/045** (2013.01 - EP US)

Citation (search report)

- [Y] US 4340778 A 19820720 - COWANS KENNETH W, et al
- [A] FR 892396 A 19440405
- [A] WO 8102501 A1 19810903 - SAKAI K
- [A] US 4137510 A 19790130 - IWAHARA MAKOTO
- [A] FR 2378418 A1 19780818 - RANK ORGANISATION LTD [GB]
- [A] FR 2345880 A1 19771021 - STAHL KARL [SE]
- [A] EP 0221324 A1 19870513 - STUDER WILLI AG [CH]
- [Y] AUDIO ENGINEERING, August 1951, Seiten 20-22,54-55, Philadelphia, US; W. CLEMENTS: "A new approach to loudspeaker damping"
- [A] FUNK-TECHNIK, Band 40, Nr. 8, August 1985, Seiten 322-325, Heidelberg, DE; H.-J. HAASE: "Schaltungstechnik moderner Hifi-Aktiv-Lautsprecher-boxen"

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