

Title (en)

ARRANGEMENT FOR SOUND SOURCES AVOIDING ACOUSTIC SHORT CIRCUITS IN LOUDSPEAKERS

Publication

EP 0101031 A3 19860409 (DE)

Application

EP 83107746 A 19830805

Priority

HU 251482 A 19820805

Abstract (en)

[origin: EP0101031A2] The arrangement exhibits at least three loudspeakers (1) and each of the loudspeakers is connected to a rigid wall (2) exhibiting one closed surface each, in such a manner that the diaphragm (3) of the loudspeaker (1) closes off one end of the air column (4) delimited by the surface whereas the other end of the air columns is in communication with the external air space. The longitudinal dimensions of the surfaces are selected in such a manner that the shortest connecting path extending through the air between the front and the rear of the respective diaphragm (3) is no shorter than one third of the wavelength of the sound wave of the lowest frequency to be radiated, the length of the air columns (4) differing from one another and from the half and quarter wavelength of self resonance of the connected loudspeakers and the inputs (5, 6) of the loudspeakers (1) being connected to a low-impedance generator (7). <IMAGE>

IPC 1-7

H04R 1/28

IPC 8 full level

H04R 1/28 (2006.01)

CPC (source: EP)

H04R 1/26 (2013.01); **H04R 1/2857** (2013.01)

Citation (search report)

- [A] US 1912454 A 19330606 - HUTTER WILLIAM H
- [A] US 3993162 A 19761123 - JUUTI KENNETH
- [A] AUDIO, Band 40, Nr. 9, September 1956, Seiten 34-42 und 82-86, New York, US; E.J. JORDAN: "Baffles unbaffled"
- [A] FUNKSCHAU, Nr. 9, April 1982, Seiten 69-70, München, DE; H. SCHAPER: "Akustische Laufzeitleitung"
- [A] JOURNAL OF THE AUDIO ENGINEERING SOCIETY, Band 7, Nr. 1, Januar 1959, Seiten 38-46, New York, US; P.W. TAPPAN: "Analysis of a low-frequency loudspeaker system"

Cited by

DE19601217C1; EP0624045A1; US5170435A; US6278789B1; WO2008056258A3

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