

Title (en)
Method for generating an approximated partial transfer function

Title (de)
Verfahren zur Erzeugung einer angenäherten Teilübertragungsfunktion

Title (fr)
Procédé de génération d'une fonction de transfert partielle approximée

Publication
EP 1471770 A3 20081203 (DE)

Application
EP 04007586 A 20040329

Priority
DE 10318191 A 20030422

Abstract (en)
[origin: US2004218771A1] A method for producing an approximated partial transfer function can be used in an electroacoustic appliance for producing an environment correction transfer function that matches an appliance transfer function for the electroacoustic appliance to an acoustic environment, by a) providing a number of basic functions, which each have one basic characteristic of a spectral profile of partial transfer functions, b) providing the approximated partial transfer function by combination of the basic functions weighted by weighting factors, in that at the weighting factor is in each case determined for each basic function such that operation of the electroacoustic appliance is matched to an acoustic environment taking into account the approximated partial transfer function which is formed by the weighting factors and the basic functions, and c) storing the approximated partial transfer function in the electroacoustic appliance for use during operation.

IPC 8 full level
H04R 25/00 (2006.01); **H04R 5/033** (2006.01); **H04S 1/00** (2006.01)

CPC (source: EP US)
H04R 25/70 (2013.01 - EP US); **H04S 1/005** (2013.01 - EP US); **H04S 2420/01** (2013.01 - EP US)

Citation (search report)
• [X] US 5852668 A 19981222 - ISHIGE RYUUICHI [JP], et al
• [E] EP 1404152 A2 20040331 - SIEMENS AUDIOLOGISCHE TECHNIK [DE]
• [DA] US 5870481 A 19990209 - DYMOND ROBIN NORMAN [CA], et al
• [DA] DE 19927278 C1 20001214 - SIEMENS AUDIOLOGISCHE TECHNIK [DE]
• [DX] KISTLER ET AL: "A MODEL OF HEAD-RELATED TRANSFER FUNCTIONS BASED ON PRINCIPAL COMPONENTS ANALYSIS AND MINIMUM-PHASE RECONSTRUCTION", JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, AIP / ACOUSTICAL SOCIETY OF AMERICA, MELVILLE, NY, US, vol. 91, no. 3, 1 March 1992 (1992-03-01), pages 1637 - 1647, XP002099514, ISSN: 0001-4966

Cited by
CN109716792A; US9191755B2; US9516431B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL LT LV MK

DOCDB simple family (publication)
US 2004218771 A1 20041104; AT E473604 T1 20100715; AU 2004201682 A1 20041111; DE 10318191 A1 20040729;
DE 502004011352 D1 20100819; DK 1471770 T3 20101025; EP 1471770 A2 20041027; EP 1471770 A3 20081203; EP 1471770 B1 20100707

DOCDB simple family (application)
US 82776404 A 20040420; AT 04007586 T 20040329; AU 2004201682 A 20040422; DE 10318191 A 20030422; DE 502004011352 T 20040329;
DK 04007586 T 20040329; EP 04007586 A 20040329