

Title (en)
Feedback suppression

Title (de)
Rückkopplungsunterdrückung

Title (fr)
Suppression de la réaction acoustique

Publication
EP 1469702 A3 20041117 (EN)

Application
EP 04006073 A 20040315

Priority
EP 04006073 A 20040315

Abstract (en)
[origin: EP1469702A2] Feedback suppression is performed at a hearing device with a controllable beamformer (12) and a feedback compensator path (18) in that the adaptation rate of acoustical/electrical conversion including beamforming is controlled in dependency of the gain along the feedback compensating signal path (18).

IPC 1-7
H04R 25/00

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP)
H04R 25/453 (2013.01)

Citation (search report)
• [DA] EP 0656737 A1 19950607 - PHONAK AG [CH]
• [DA] WO 0033634 A2 20000615 - PHONAK AG [CH], et al
• [A] WO 0019605 A2 20000406 - HOUSE EAR INST [US]
• [A] EP 1080606 A1 20010307 - AUDIOLOGIC HEARING SYS LP [US]
• [DA] HERBORDT W ET AL: "Computationally Efficient Frequency-Domain Combination of Acoustic Echo Cancellation and Robust Adaptive Beamforming", PROCEEDINGS EUROSPEECH, vol. 2, September 2001 (2001-09-01), AALBORG, DANMARK, pages 1001 - 1004, XP007004503
• [A] HSIANG-FENG CHI, SHAWN X. GAO, SIGFRID D. SOLI, ABEER ALWAN: "Band-limited feedback cancellation with a modified filtered-X LMS algorithm for hearing aids", SPEECH COMMUNICATION, vol. 39, no. 1-2, January 2003 (2003-01-01), ELSEVIER SCIENCE, pages 147 - 161, XP002295470
• [A] MAXWELL J A ET AL: "REDUCING ACOUSTIC FEEDBACK IN HEARING AIDS", IEEE TRANSACTIONS ON SPEECH AND AUDIO PROCESSING, IEEE INC. NEW YORK, US, vol. 3, no. 4, 1 July 1995 (1995-07-01), pages 304 - 313, XP000633074, ISSN: 1063-6676
• [A] HOSHUYAMA O ET AL: "A ROBUST ADAPTIVE BEAMFORMER FOR MICROPHONE ARRAYS WITH A BLOCKING MATRIX USING CONSTRAINED ADAPTIVE FILTERS", IEEE TRANSACTIONS ON SIGNAL PROCESSING, IEEE, INC. NEW YORK, US, vol. 47, no. 10, October 1999 (1999-10-01), pages 2677 - 2684, XP000947154, ISSN: 1053-587X

Cited by
AU2005337382B2; CN110139200A; CN103797816A; EP2169984A3; CN103329566A; EP2357850A3; EP3249955A1; US8189833B2; US8804979B2; WO2011027005A3; WO2007042025A1; US8588444B2; US10484800B2

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

DOCDB simple family (publication)
EP 1469702 A2 20041020; EP 1469702 A3 20041117; EP 1469702 B1 20161123; DK 1469702 T3 20170213

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