

Title (en)

METHOD FOR IMPROVING ACOUSTIC NOISE ATTENUATION IN HAND-FREE DEVICES

Title (de)

VERFAHREN ZUR VERBESSERUNG DER AKUSTISCHEN RÜCKHÖRDÄMPFUNG IN FREISPRECHEINRICHTUNGEN

Title (fr)

PROCEDE POUR AMELIORER L'AFFAIBLISSEMENT ACOUSTIQUE DU SIGNAL LOCAL DANS DES APPAREILS MAIN LIBRE

Publication

EP 1055318 A2 20001129 (DE)

Application

EP 99907267 A 19990121

Priority

- DE 9900151 W 19990121
- DE 19806015 A 19980213

Abstract (en)

[origin: DE19806015A1] The present invention relates to a method for improving acoustic noise attenuation, wherein said method uses a combination which comprises an adaptation control for the partial-band echo compensation process as well as a global-band post-filtration for suppressing residual echo in hand-free devices. This method also uses a level balance (22) as well as a controllable frequency-selection echo compensation (28) with partial-band processing. After the frequency-selection echo compensation (28), the outputted signal is submitted to a post-filtration in another frequency-selection filter (30) using an Wiener-equation adjustment algorithm (Wiener filtration). A single control value (increment vector) is used for controlling both the frequency-selection echo compensation and the other filter. This method can thus be implemented with a very reduced amount of calculations so that it can also be used in simple consumer-directed processors.

IPC 1-7

H04M 9/08

IPC 8 full level

H04R 3/02 (2006.01); **H04B 3/20** (2006.01); **H04M 1/60** (2006.01); **H04M 9/08** (2006.01)

CPC (source: EP US)

H04M 9/08 (2013.01 - EP US)

Citation (search report)

See references of WO 9941897A2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 19806015 A1 19990826; **DE 19806015 C2 19991223**; EP 1055318 A2 20001129; JP 2002503923 A 20020205; US 6834108 B1 20041221; WO 9941897 A2 19990819; WO 9941897 A3 19990923

DOCDB simple family (application)

DE 19806015 A 19980213; DE 9900151 W 19990121; EP 99907267 A 19990121; JP 2000531947 A 19990121; US 62227001 A 20010129