

Title (en)  
Disturbance reduction in digital signal processing

Title (de)  
Störreduktion in der digitalen Signalverarbeitung

Title (fr)  
Réduction de perturbation pour le traitement de signaux numériques

Publication  
**EP 1944761 A1 20080716 (EN)**

Application  
**EP 07000716 A 20070115**

Priority  
EP 07000716 A 20070115

Abstract (en)  
A method is provided for transmitting a digital signal  $y(n)$ ,  $y(n)$  comprising a useful signal  $s(n)$  and a perturbation signal  $p(n)$ . The method comprises the steps of: - receiving the Linear Prediction Coefficients (LPC)  $A_y$  of the signal  $y_e(n)$ ,  $y_e(n)$  being an LPC-encoded signal of  $y(n)$ . - estimating the autocorrelation matrix  $\#s$  of the useful signal  $s(n)$ , of the autocorrelation matrix  $\#p$  of the perturbation signal  $p(n)$  and the LPC  $A_p$  of the perturbation signal  $p(n)$ ; - calculating a modified LPC  $A_s$  by using  $A_y$  and the estimated  $\#s$ ,  $\#p$ ,  $A_p$ ; - outputting a modified data stream  $y_e'(n)$  including the modified LPC  $A_s$ .

IPC 8 full level  
**G10L 21/02** (2006.01); **G10L 19/06** (2006.01); **G10L 21/0208** (2013.01); **H04M 9/08** (2006.01)

CPC (source: EP)  
**G10L 19/06** (2013.01); **G10L 21/0208** (2013.01)

Citation (search report)

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- [A] WO 02054744 A1 20020711 - NOKIA CORP [FI], et al
- [DA] CHANDRAN R ET AL: "Compressed domain noise reduction and echo suppression for network speech enhancement", CIRCUITS AND SYSTEMS, 2000. PROCEEDINGS OF THE 43RD IEEE MIDWEST SYMPOSIUM ON AUGUST 8-11, 2000, PISCATAWAY, NJ, USA, IEEE, vol. 1, 8 August 2000 (2000-08-08), pages 10 - 13, XP010558066, ISBN: 0-7803-6475-9

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

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1944761 A1 20080716**; WO 2008086920 A1 20080724

DOCDB simple family (application)  
**EP 07000716 A 20070115**; EP 2007063598 W 20071210