

Title (en)
NARROW BAND NOISE REDUCTION FOR SPEECH ENHANCEMENT

Title (de)
RAUSCHUNTERDRÜCKUNG FÜR EINE ELEKTRONISCHE VORRICHTUNG MIT FERNFELDMIKROFON AUF DER KONSOLE

Title (fr)
SUPPRESSION DE BRUIT POUR DISPOSITIF ELECTRONIQUE EQUIPE D'UN MICROPHONE DE CHAMP LOINTAIN SUR CONSOLE

Publication
EP 2012725 A2 20090114 (EN)

Application
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- US 38172906 A 20060504
- US 38172806 A 20060504
- US 38172506 A 20060504
- US 38172406 A 20060504
- US 38172106 A 20060504
- US 2006017483 W 20060504
- US 41898806 A 20060504
- US 41898906 A 20060504
- US 42904706 A 20060504

Abstract (en)
[origin: WO2007130765A2] Methods and apparatus for echo cancellation in a system having a speaker and a microphone are disclosed. The speaker receives a speaker signal $x(t)$. The microphone receives a microphone signal $d(t)$ containing a local signal $s(t)$ and an echo signal $x_{\text{SUB} > 1 \text{</SUB>}(t)$ that is dependent on the speaker signal $x(t)$. The microphone signal $d(t)$ is filtered in parallel with first and second adaptive filters having complementary echo cancellation properties relative to each other. A minimum echo output $e_{\text{SUB} > 3 \text{</SUB>}(t)$ is determined from an output $e_{\text{SUB} > 1 \text{</SUB>}(t)$ of the first adaptive filter and an output $e_{\text{SUB} > 2 \text{</SUB>}(t)$ of the second adaptive filter. The minimum echo output has a smaller energy and less correlation to the speaker signal $x(t)$. A microphone output is then generated using the minimum echo output $e_{\text{SUB} > 3 \text{</SUB>}(t)$.

IPC 8 full level
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