

Title (en)  
Method and apparatus for adaptively suppressing noise

Title (de)  
Verfahren und Vorrichtung für adaptive Rauschunterdrückung

Title (fr)  
Procédé et appareil de suppression adaptée du bruit

Publication  
**EP 1729287 A1 20061206 (EN)**

Application  
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Priority  
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Abstract (en)  
An apparatus and method for suppressing noise is presented. The apparatus may utilize a filter bank of bandpass filters to split the input noisy speech-containing signal into separate frequency bands. The overall average noise-to-signal ratio (NSR) of the input signal is estimated in the overall NSR estimator, which estimates the average noisy signal power in the input signal during speech activity and the average noise power during silence. Two indirect power measures are performed for each band, measuring a short-term power and a long-term power. The power estimation processes are adapted based on the signal activity indicated by the JVADAD. An NSR adapter adapts the NSR for each frequency band based on the long-term and short-term power measures, the overall NSR and the signal activity indicated by the JVADAD. The gain computer utilizes these NSR values to determine the gain factors for each frequency band.

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Citation (applicant)  
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