

Title (en)  
NOISE REDUCTION DEVICE AND A NOISE REDUCTION METHOD

Title (de)  
GERÄUSCHVERMINDERUNGSVORRICHTUNG UND GERÄUSCHVERMINDERUNGSVERFAHREN

Title (fr)  
DISPOSITIF ET PROCEDE DE REDUCTION DE BRUITS

Publication  
**EP 0992978 A4 20020116 (EN)**

Application  
**EP 98957196 A 19981207**

Priority  
• JP 9805512 W 19981207  
• JP 8417498 A 19980330

Abstract (en)  
[origin: WO9950825A1] A noise reduction method which reduces unpleasant residual noise even when movement to or from noise frames is frequent and the spectrum of each frame unevenly includes certain frequencies. In a spectral subtraction noise reduction method for producing an output by subtracting by a spectral subtraction filter an estimated noise amplitude spectrum from an amplitude spectrum created by orthogonal-transforming an input signal segmented to a predetermined frame length, the subtraction rate of the spectral subtraction filter is variable according to the estimated noise amplitude spectrum and an amplitude adjusting filter circuit (6) is used. The amplitude adjust filter circuit (6) multiplies the output produced by subtraction by the spectral subtraction filter for each frame, by an amplitude adjusting coefficient to produce a desired output. The amplitude adjusting coefficient is determined by the power of the amplitude spectrum (9) and the power of the estimated noise amplitude spectrum (10).

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• [A] WO 9515550 A1 19950608 - AT & T CORP [US]  
• See references of WO 9950825A1

Cited by  
EP1914727A4; US2010207689A1; EP3276621A1; GB2422237A; EP3232589A3; US10679641B2; US9318122B2; US8160732B2

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