

Title (en)  
METHOD AND APPARATUS FOR REDUNDANCY-REDUCING DIGITAL SPEECH PROCESSING

Publication  
**EP 0076233 B1 19850911 (DE)**

Application  
**EP 82810390 A 19820920**

Priority  
CH 616781 A 19810924

Abstract (en)  
[origin: CA1184657A] A speech signal is divided into sections after digitizing and each section is analyzed by the methods of linear prediction to determine the coefficients of a sound formation model filter, a sound volume parameter, information concerning voiced or unvoiced excitation and the period of the vocal band base frequency. The voiced/unvoiced decision involves rendering only practically absolutely secure decisions. If a decision criterion does not yield a secure decision, the method proceeds to a subsequent criterion and so forth, until a definitely secure decision is possible. Among others, the energy of the speech signal, the number of its zero transitions, the energy of the residual error signal, the autocorrelation maxima of the residual error signal and transverse comparisons of the preceding speech sections are used as the decision criteria.

IPC 1-7  
**G10L 9/14**

IPC 8 full level  
**G10L 11/06** (2006.01); **G10L 15/08** (2006.01); **G10L 19/06** (2006.01)

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**EP 82810390 A 19820920**; AT 82810390 T 19820920; CA 411900 A 19820922; DE 3266204 T 19820920; JP 16515382 A 19820924; US 42188382 A 19820923