

Title (en)

Method and apparatus for smoothing pitch-cycle waveforms

Title (de)

Verfahren und Vorrichtung zur Glättung von Grundperiodewellenformen

Title (fr)

Méthode et appareil pour le lissage des formes d'onde de la période fondamentale

Publication

**EP 0537948 B1 19970903 (EN)**

Application

**EP 92309167 A 19921008**

Priority

US 77856091 A 19911018

Abstract (en)

[origin: EP0537948A2] A method and apparatus for processing a reconstructed speech signal from an analysis-by-synthesis decoder are provided to improve the quality of reconstructed speech. By operation of the invention, one or more traces in a reconstructed speech signal are identified. Traces are sequences of like-features in the reconstructed speech signal. The like-features are identified by time-distance data received from the long term predictor of the decoder. The identified traces are smoothed by one of the known smoothing techniques. A smoothed version of the reconstructed speech signal is formed by combining one or more of the smoothed traces. The original reconstructed speech signal may be that provided by a long term predictor of the decoder. Values of the reconstructed speech signal and smoothed speech signal may be combined based on a measure of periodicity in speech. <IMAGE>

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