

METHOD FOR GENERATING A SPECTRAL NOISE WEIGHTING FILTER FOR USE IN A SPEECH CODER

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Abstract of the Disclosure

10 A digital speech coding method uses an Rth-order filter to
model the frequency response of multiple filters, thereby,
providing a filter which offers the control of multiple filters
without the complexity of multiple filters. The Rth-order
filter can be used as a spectral noise weighting filter (132) or
a combination of a short-term predictor filter and a spectral
15 noise weighting filter, referred to as the spectrally noise
weighted synthesis filter (426), depending on which
embodiment is employed. In general, the method models the
frequency response of L Pth-order filters by a single Rth-
order filter, where the order $R < L \times P$. Thus, this method
20 increases the control of a speech coder filter without a
corresponding increase in the complexity of the speech coder.

FIG. 1 accompanies this abstract.