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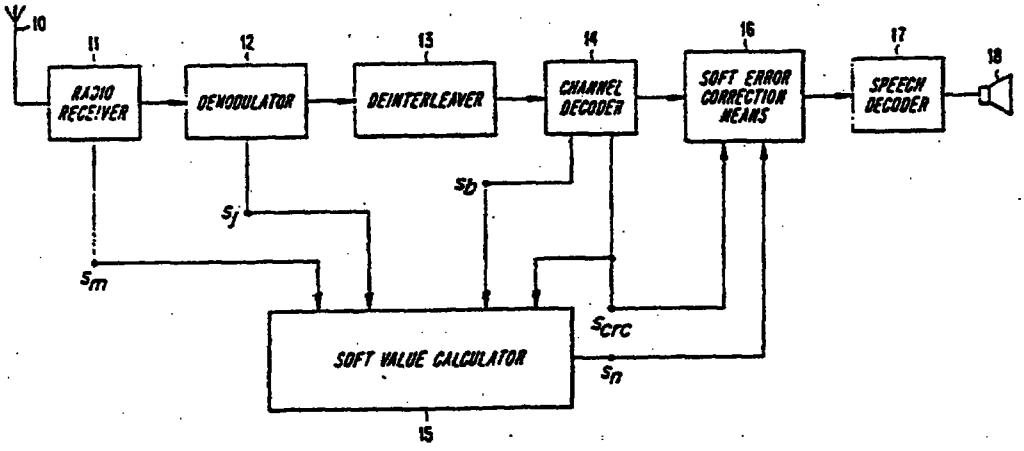
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(54) Title: SOFT ERROR CORRECTION IN A TDMA RADIO SYSTEM



(57) Abstract

In a TDMA cellular telephone system, an error concealment method provides parameter interpolation based on soft quality measures that will enhance the speech quality under bad channel conditions compared to prior methods of repeating previous voice data frames. Specifically, the soft technique of the present invention uses a weighted combination of previous and present frame parameters, where the weighting reflects the probability of error. The present invention will improve the masking of errors compared to hard actions based on a binary detection, especially when the binary detection fails or when the received frame is declared as being "good". The method can also utilize parameter based soft information without increasing the bitrate.

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