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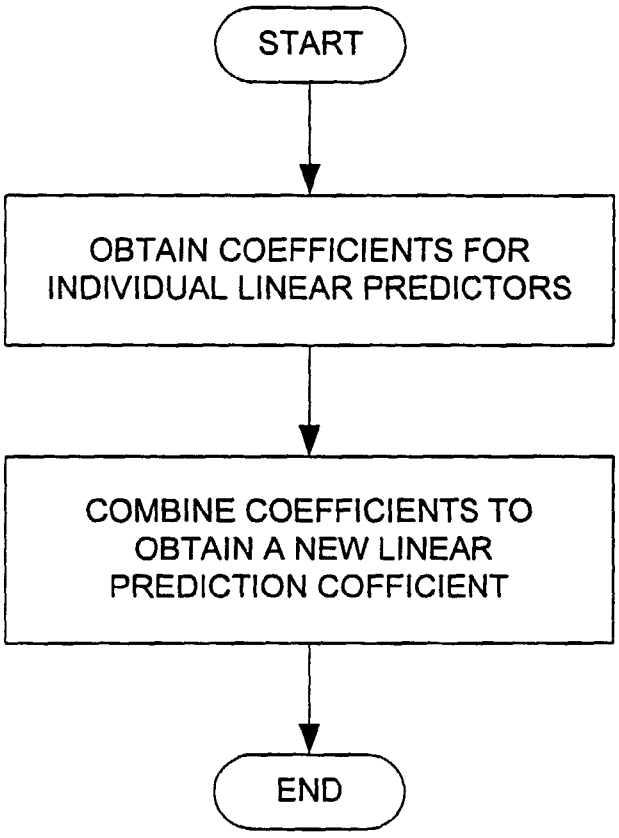
(54) Title: METHOD FOR DETERMINING OPTIMUM LINEAR PREDICTION COEFFICIENTS



(57) Abstract: A method is disclosed for determining optimum linear prediction coefficients (LPCs) in a linear predictor system. The method includes the steps of providing a linear predictor system having at least two stages in tandem, and calculating an LPC for each stage using a conventional optimal method. The method also includes the step of combining the calculated LPCs to form a composite LPC which defines an equivalent single stage linear predictor system. The step of combining may be applied to the LPCs for the first two stages of the linear predictor system. The method may include the step of combining the composite LPC and the calculated LPC for a third stage to form a second composite LPC which defines an equivalent single stage linear predictor system. This procedure may be repeated to the last stage of the linear predictor system to form a final composite LPC which defines an equivalent single stage linear predictor system.

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