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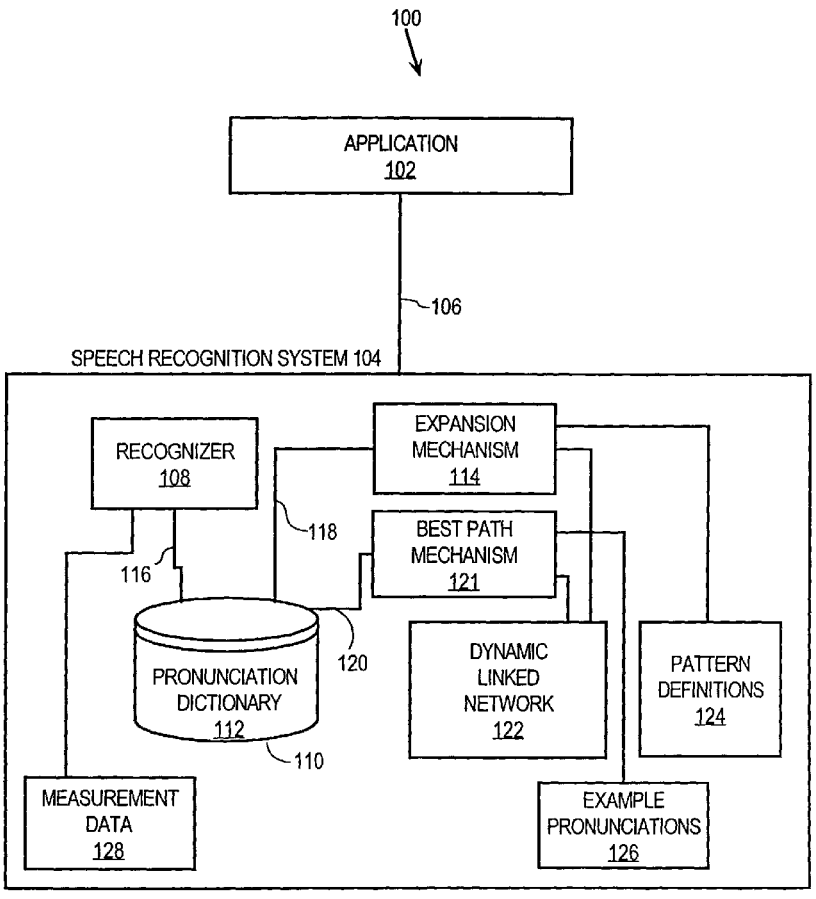
(54) Title: IMPROVED SPEECH RECOGNITION BY MODIFYING A PRONUNCIATION



(57) Abstract: An approach for automatically modifying a pronunciation dictionary in a speech recognition system (104) based on patterns of alternate pronunciations is described. A representation of the pronunciation dictionary (112), such as a plurality of dynamically linked phoneme values, is obtained. One or more pattern definition (124) are obtained. The pattern definition (124) specify zero or more phonemes to be substituted for zero or more phonemes of all words in the pronunciation dictionary (112). The linked phoneme values are modified by adding, for each path of each word, alternate paths that use each of the substitute phonemes according to the pattern definitions (124), thereby creating an expanded set of dynamically linked phoneme values. One or more best paths through the expanded set of phoneme values are determined for each of the example pronunciations and used to find the overall best path(s).

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