



[54] METHOD AND APPARATUS FOR SPEECH RECOGNITION

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Table with 4 columns: Patent No., Date, Inventor, and Reference No. (e.g., 5,459,798 10/1995 Bailey et al. 382/218)

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[58] Field of Search 704/256, 251, 704/254, 255, 200, 231, 240, 242, 238, 236, 243, 244, 252

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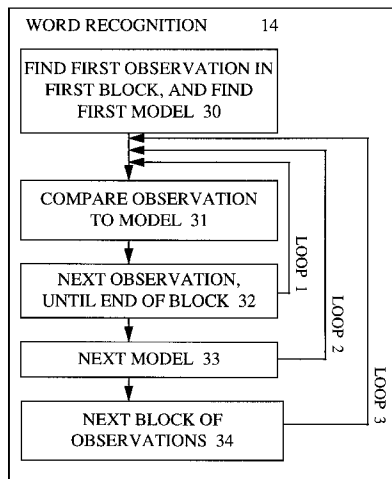
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[57] ABSTRACT

Comparing a series of observations representing unknown speech, to stored models representing known speech, the series of observations being divided into at least two blocks each comprising two or more of the observations, is carried out in an order which makes better use of memory. First, the observations in one of the blocks are compared (31), to a subset comprising one or more of the models, to determine a likelihood of a match to each of the one or more models. This step is repeated (33) for models other than those in the subset; and the whole process is repeated (34) for each block.

21 Claims, 12 Drawing Sheets



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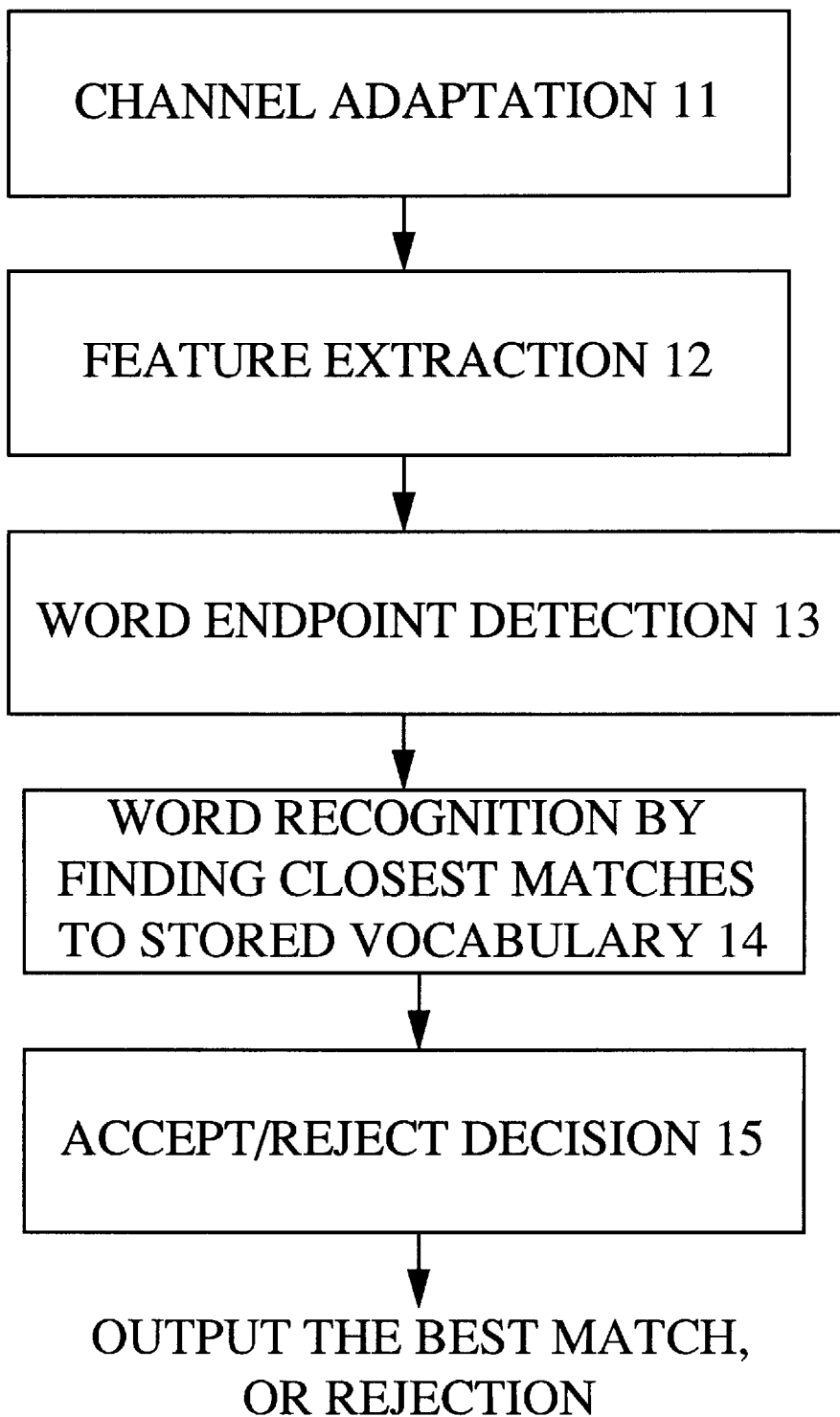
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SPEECH  
INPUT



**FIG. 1 PRIOR ART**

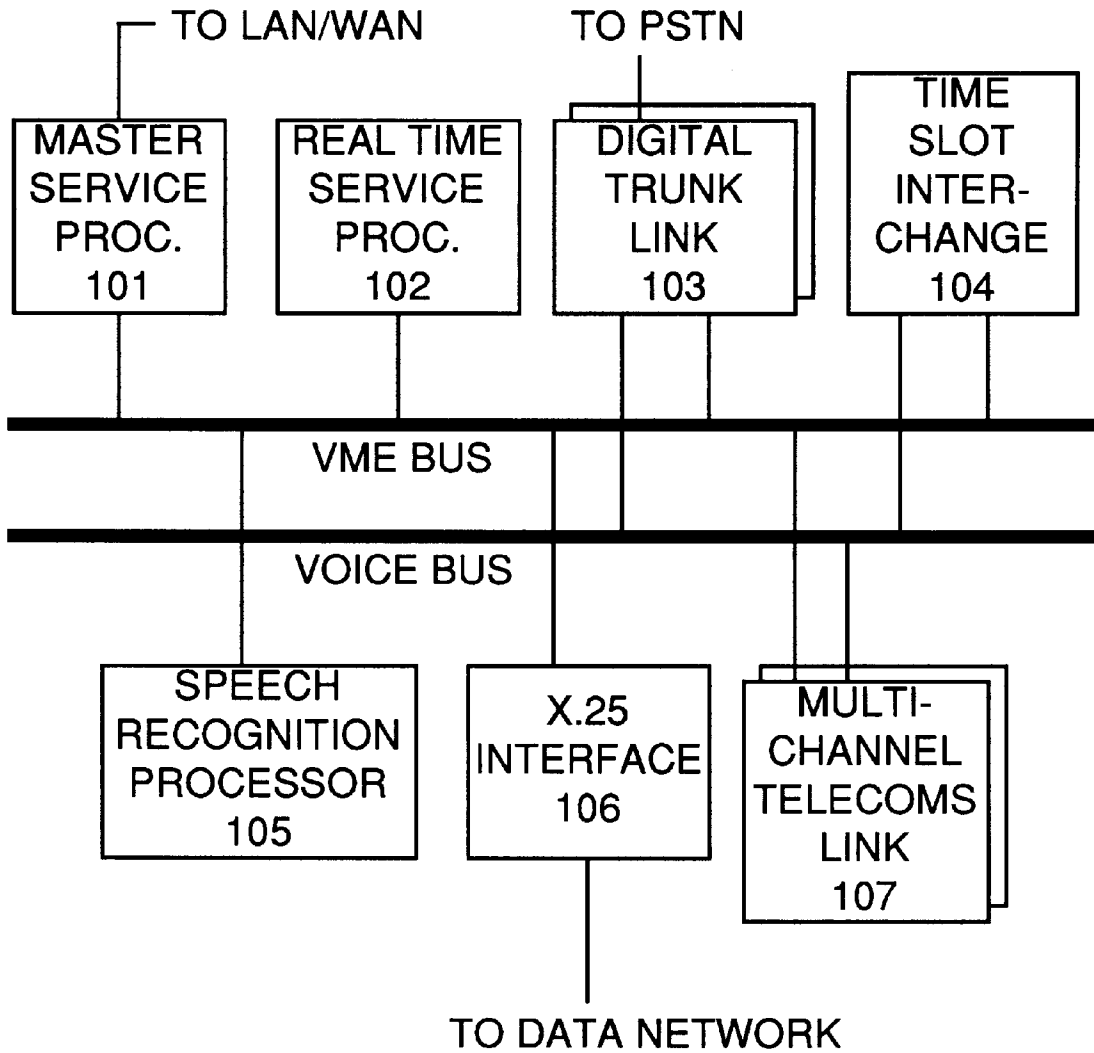


FIG. 2

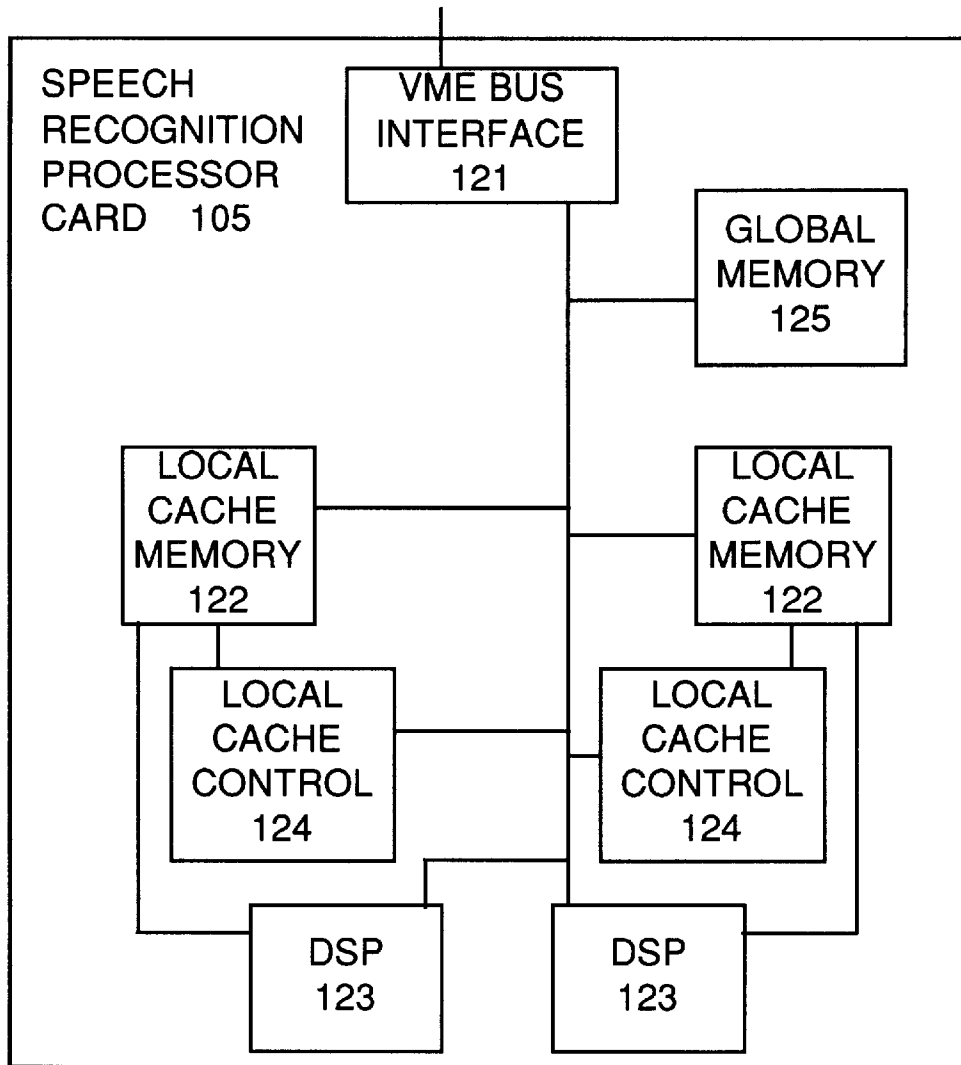


FIG. 3

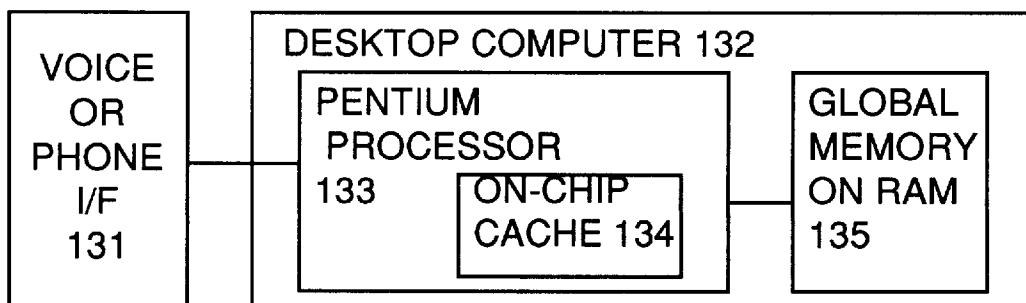


FIG. 18

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