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divisional application to the application mentioned
under INID code 62.

(54) **Double talk detecting method, double talk detecting apparatus, and echo canceler**

(57) This invention relates to a double talk detecting method suited to be used for an echo canceler, and more particularly to a method for correctly detecting whether or not the double talk is present, even in the case where a speech transmitting level difference between a far-end talker and a near-end talker is comparatively large. What is assumed in the present invention is an echo canceler which can be employed in a telephone line network for transmitting a speech of a far-end talker sent through a digital line and a speech of a near-end talker sent through an analog line. A double talk detecting method applicable to the echo canceler here extracts predetermined analyzed parameters re-

spectively from a first speech signal corresponding to the speech of the far-end talker sent from the echo canceler to a hybrid circuit and the speech of the near-end talker input to the echo canceler through the hybrid circuit. The analyzed parameters herein used are frequency components, of each of the speech signals. In this invention, the analyzed parameters themselves or correlation values of the fluctuations of the analyzed parameters, etc. are calculated and a detection is made as to whether or not the double talk is present, based on the result of calculation.

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FIG.8
FOURTH EMBODIMENT

