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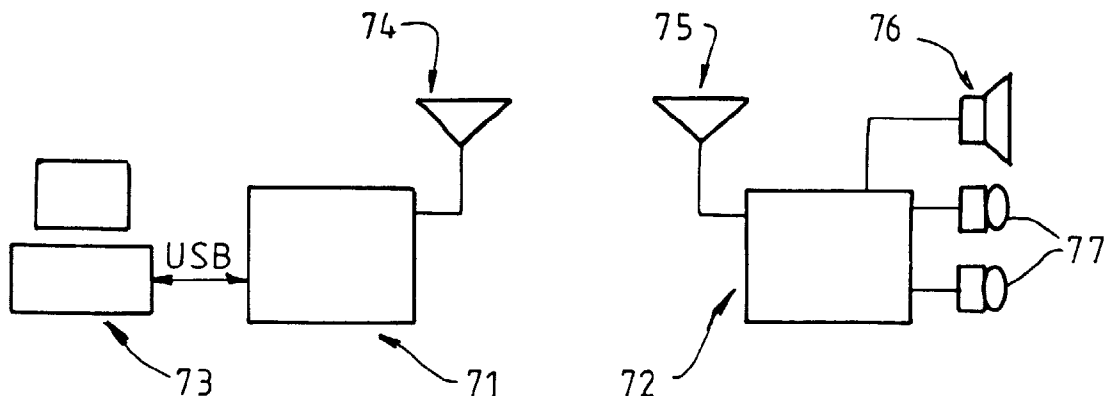
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(54) Title: SYSTEM AND APPARATUS FOR SPEECH COMMUNICATION AND SPEECH RECOGNITION



(57) Abstract: A headset system is proposed including a headset unit to be worn by a user and having two or more microphones, and a base unit in wireless communication with the headset. Signals received from the microphones are processed using a first adaptive filter to enhance a target signal, and then divided and supplied to a second adaptive filter arranged to reduce interference signals and a third filter arranged to reduce noise. The outputs of the second and third filters are combined, and are be subject to further processing in the frequency domain. The results are transmitted to a speech recognition engine.

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