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(54) **MODULAR WIRELESS MULTIMEDIA DEVICE**

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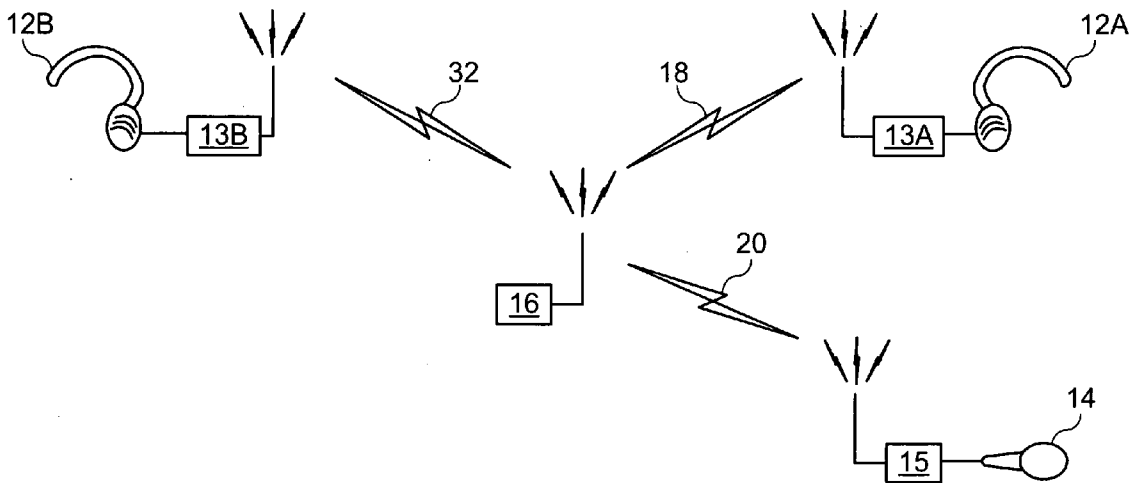
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(57) **ABSTRACT**

A modular wireless headset includes wearable earpiece(s) and wearable microphone(s), where the earpiece and microphone may be physically separate devices. The wearable earpiece renders inbound radio frequencies received from a host device audible. The wearable earpiece may include a receiver module, data recovery module, and speaker module. The receiver module may convert inbound RF signals into low intermediate frequency (IF) signals. The data recovery module recovers audio signals from the low IF signals. The speaker module renders the audio signals audible. The wearable microphone converts received audio signals into outbound RF signals, where the outbound RF signals are transmitted to the host device. The wearable microphone includes an audio input module and a transmitter module. The audio input module is operably coupled to convert received analog audio signals into digital audio signals. The transmitter module is operably coupled to convert the digital audio signals into the outbound RF signals.



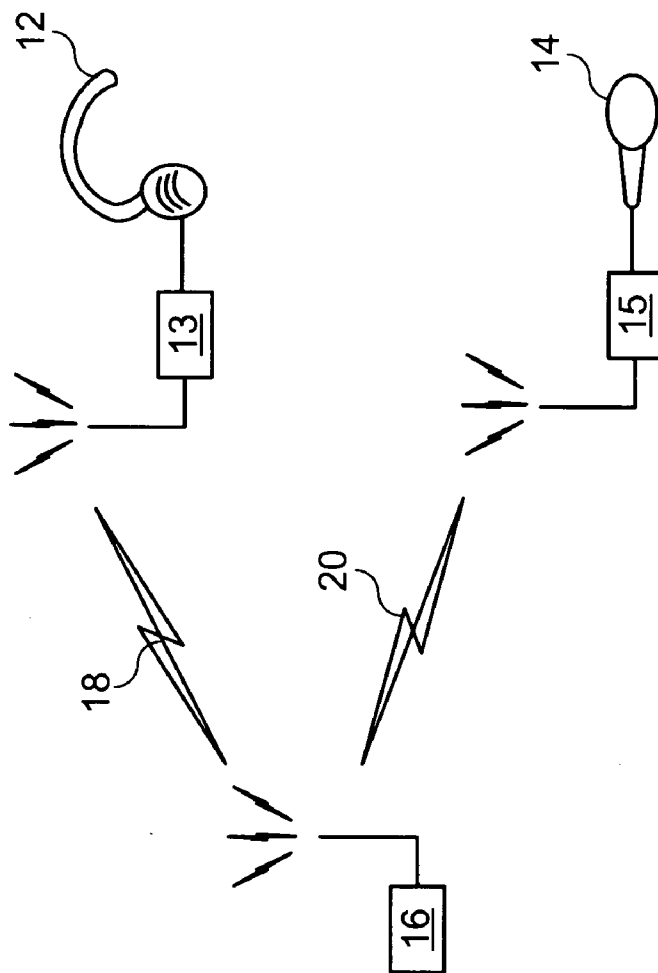


FIG. 1

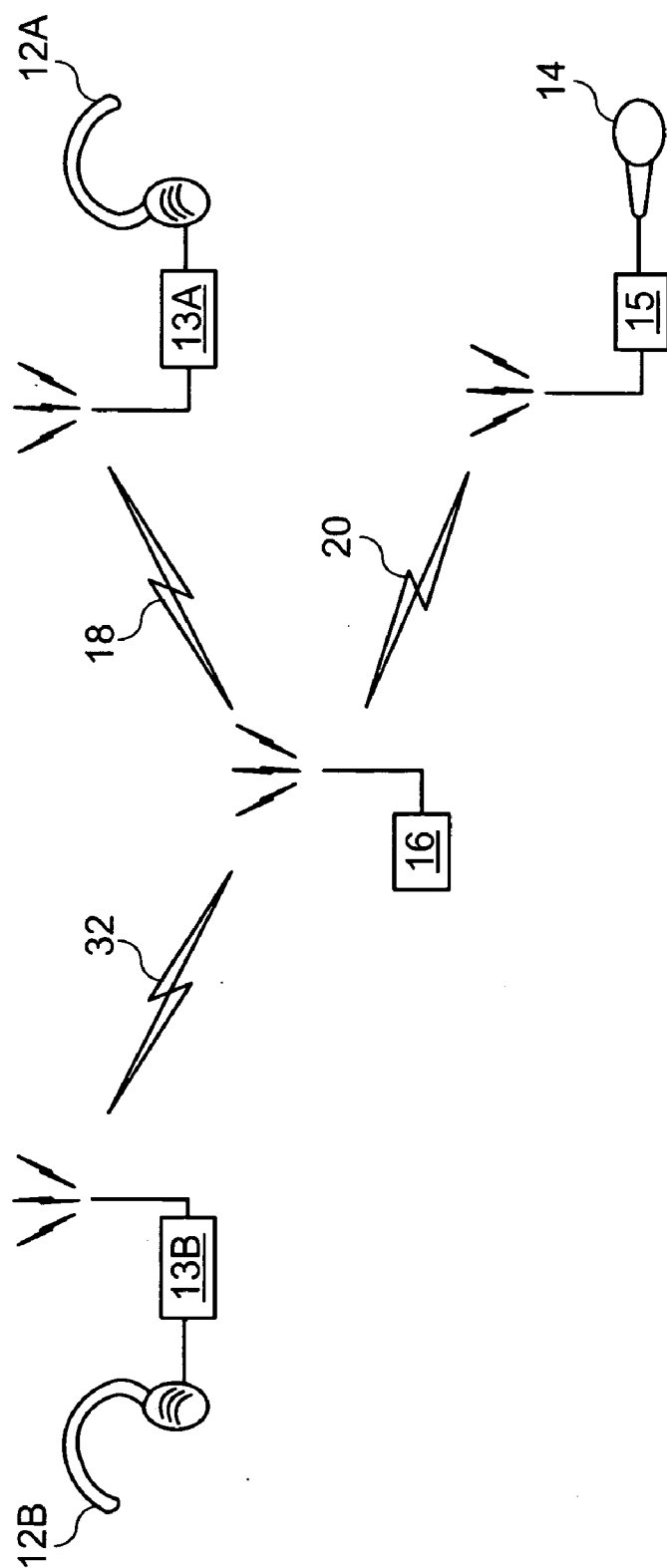


FIG. 2

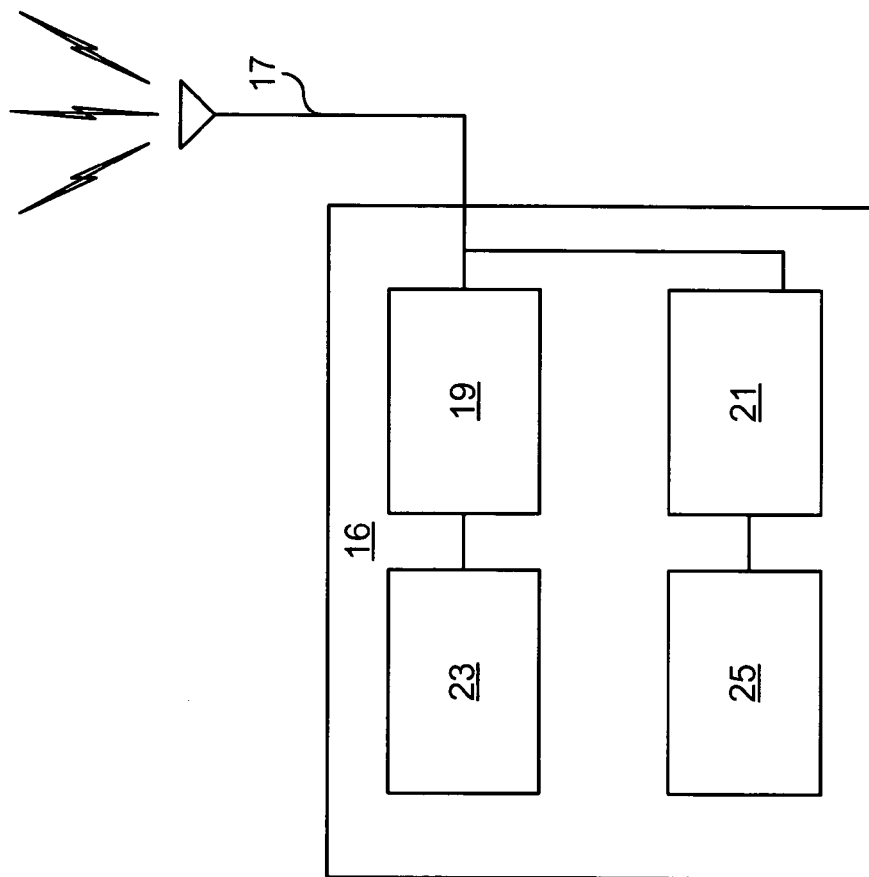


FIG. 3

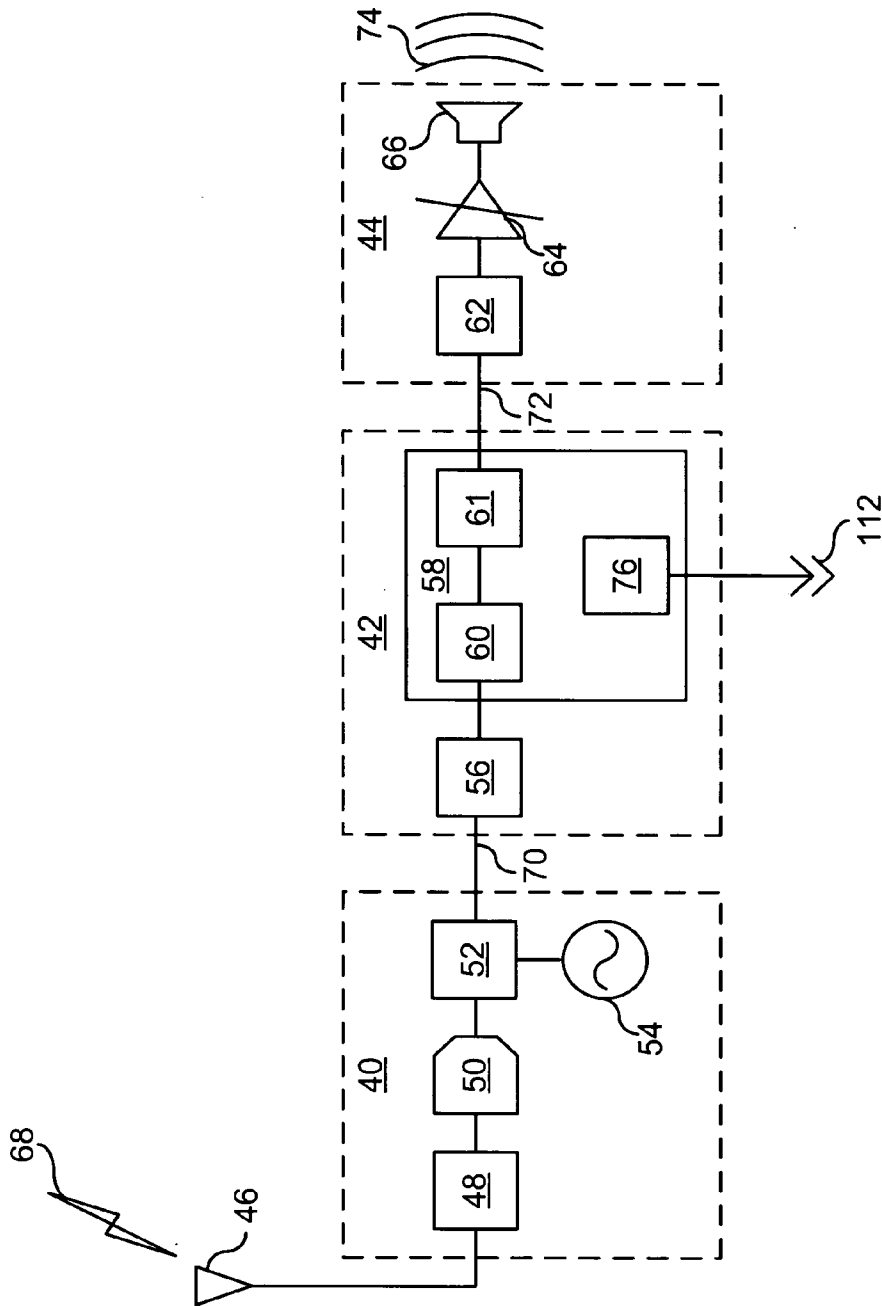


FIG. 4

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