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**Gaiimo et al.**

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(54) **METHOD AND APPARATUS FOR WIRELESS ROUTING ON A PLURALITY OF DIFFERENT WIRELESS CHANNELS**

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(57) **ABSTRACT**

To provide enhanced quality of service (QoS) communication capability, a wireless network is implemented in which different channels are used for conveying different types of data and in which wireless devices are selectively operated in either an infrastructure or ad hoc mode automatically selected to make best use of the available communication bandwidth. For example, a wireless device for a computer can be operated selectively as a client wireless device that is in communication with a legacy access point in an infrastructure mode on one channel, while using one or more different channels to communicate selectively in either ad hoc mode or infrastructure mode with client devices. To make efficient use of wireless devices, IEEE 802.11a or 802.11g wireless devices are used for communicating audio/video data on one channel, while an IEEE 802.11b wireless device is used on a different channel for communicating web page data.

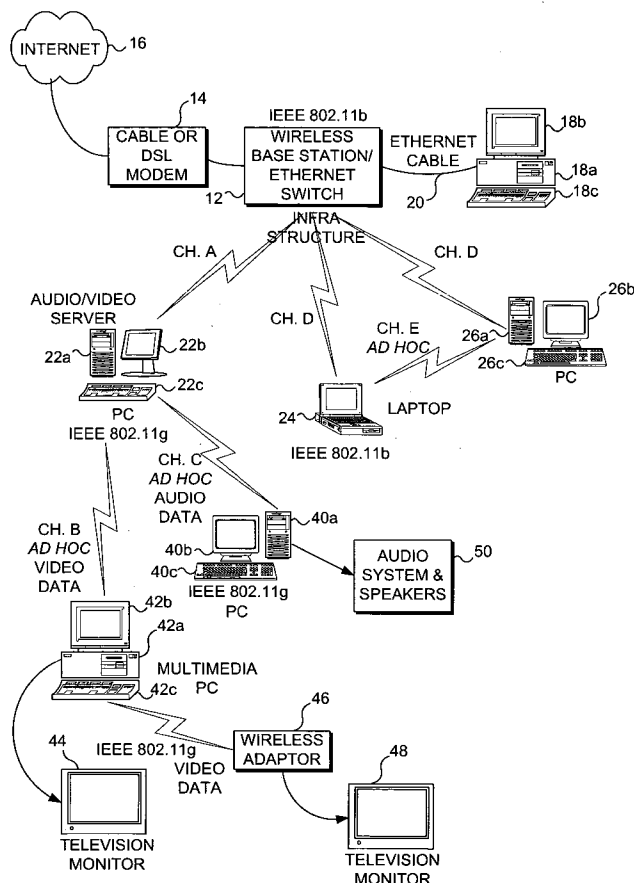
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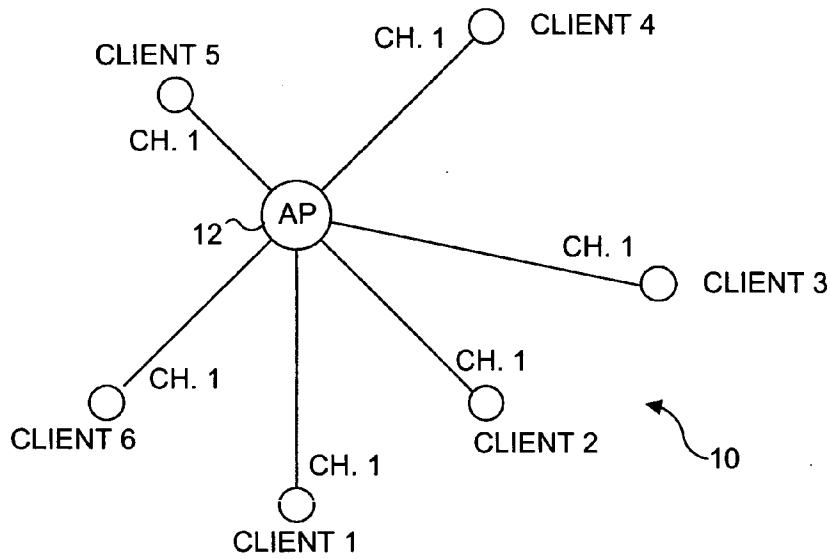
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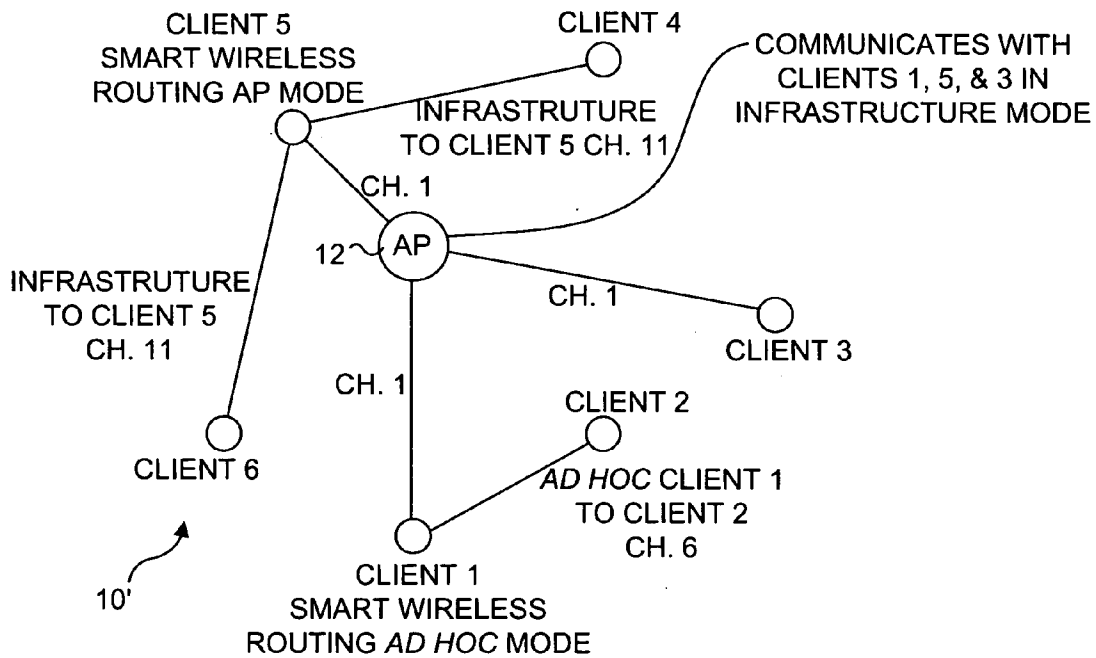
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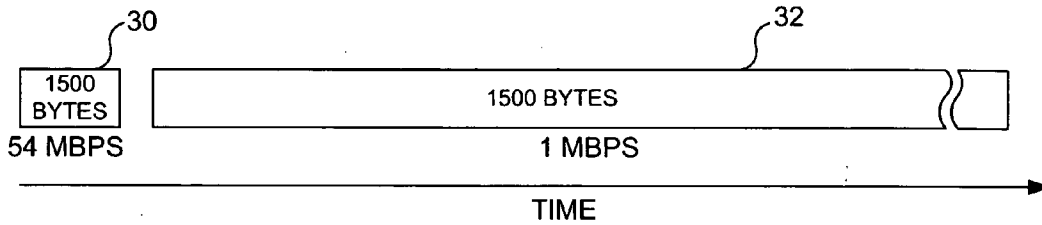


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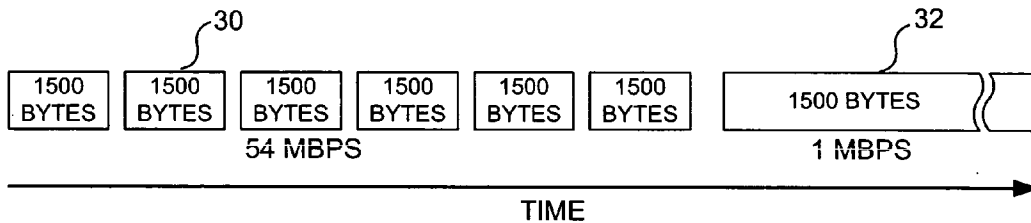
**FIG. 1A (PRIOR ART)**



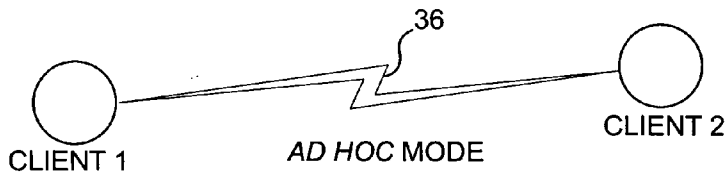
**FIG. 1B**



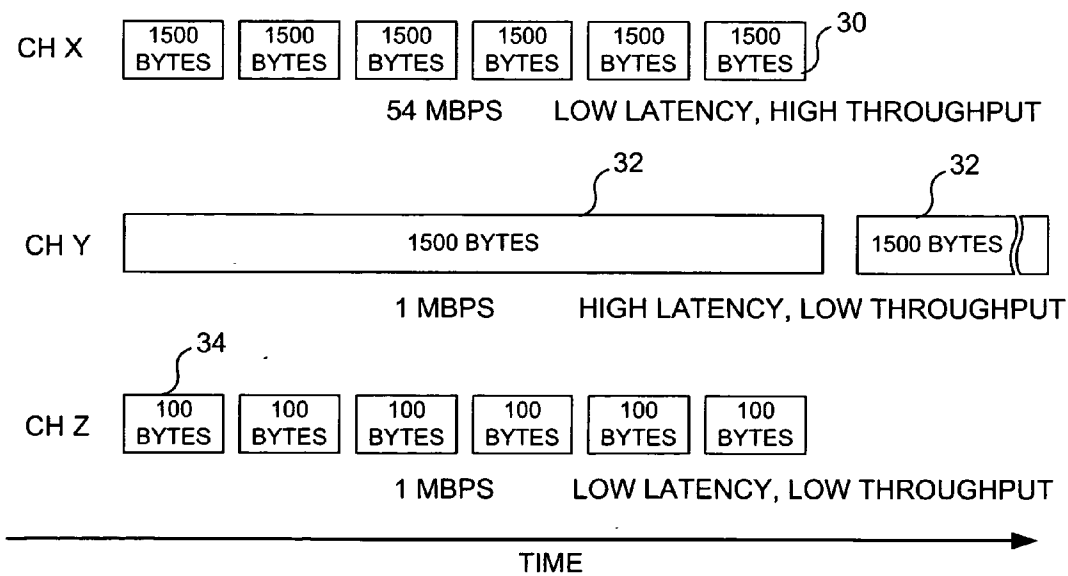
**FIG. 2A (PRIOR ART)**



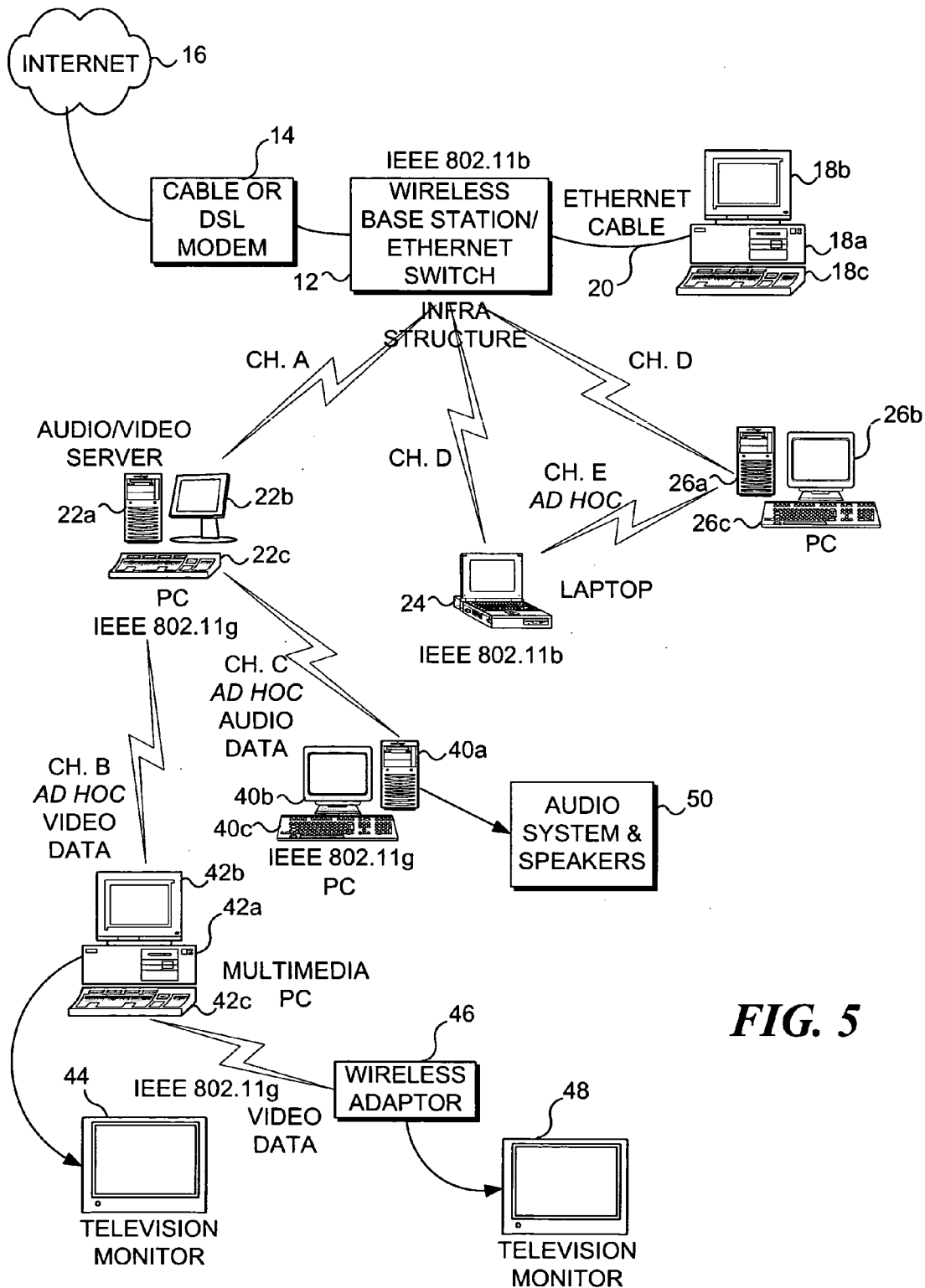
**FIG. 2B (PRIOR ART)**



**FIG. 3 (PRIOR ART)**



**FIG. 4**



**FIG. 5**

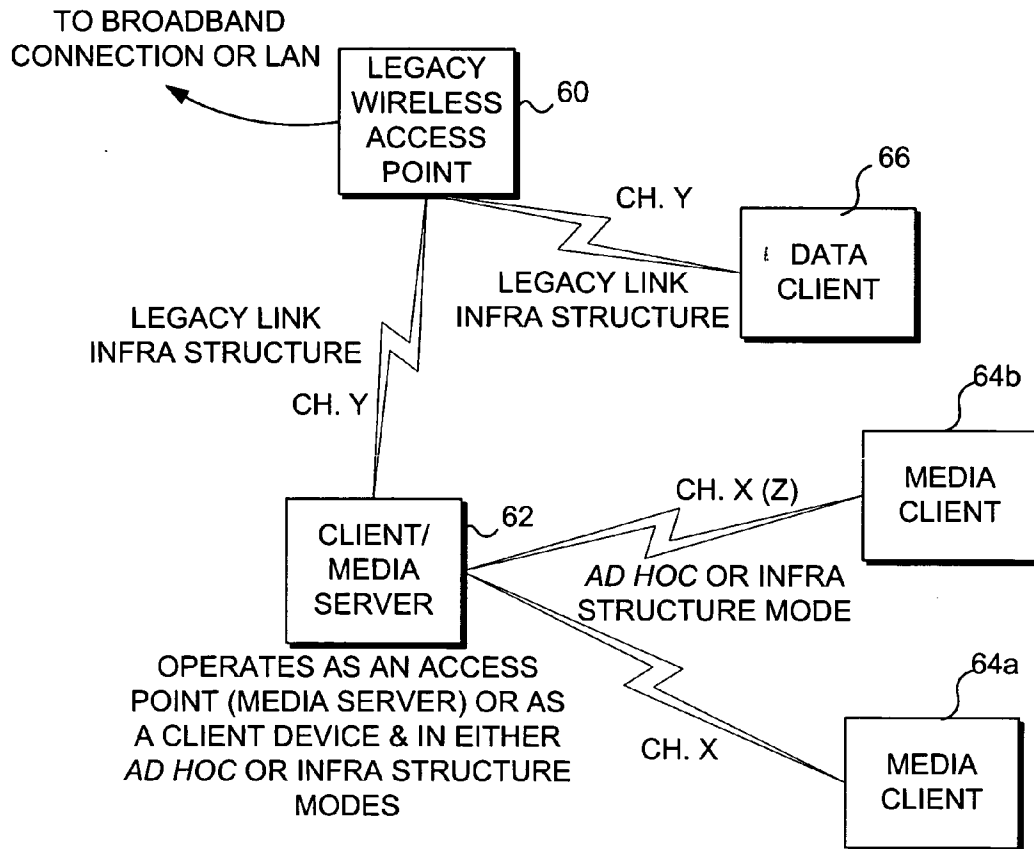


FIG. 6

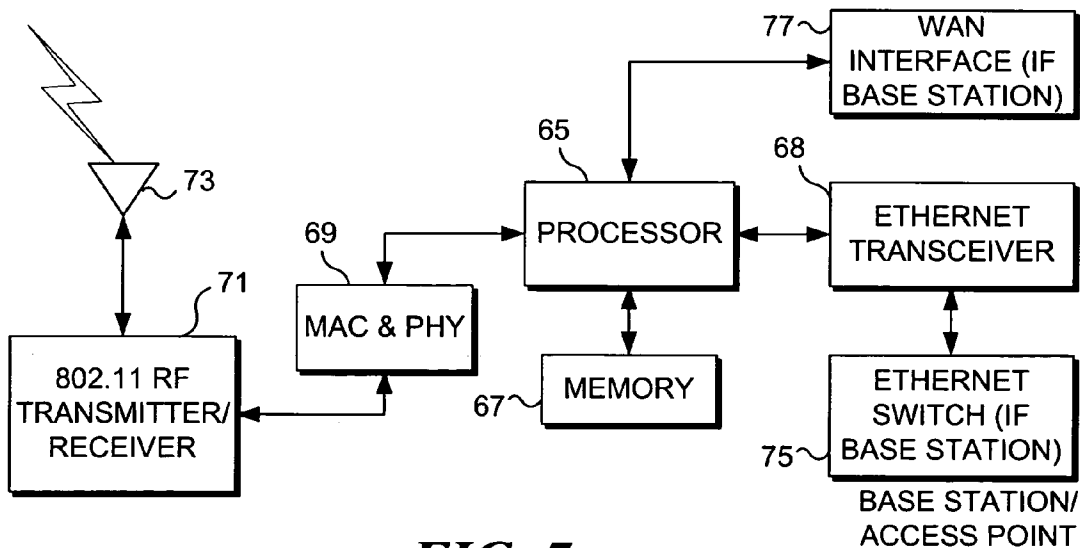


FIG. 7

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