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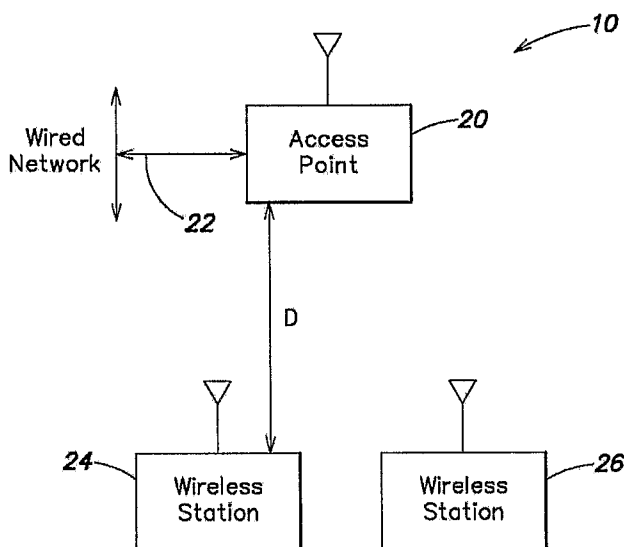
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
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(54) Title: RANGE EXTENSION BETWEEN TWO WIRELESS DEVICES



(57) Abstract: A mechanism is provided to extend the range of wireless devices beyond the range limit that results from timing restrictions imposed by the IEEE 802.11 standard. The mechanism, which operates at the upper level of the 802.11 MAC, determines whether the wireless devices are far apart or not far apart. When the wireless devices are determined to be far apart, the standard retransmission protocol at the lower level of the 802.11 MAC is disabled and a custom ACK packet is utilized. Delivery of a transmitted packet is confirmed if the custom ACK packet is received within a maximum delay period that takes into account the longer propagation delay between wireless devices that are far apart.