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**ARLINGTON, VA 22201 (US)**(30) **Foreign Application Priority Data**

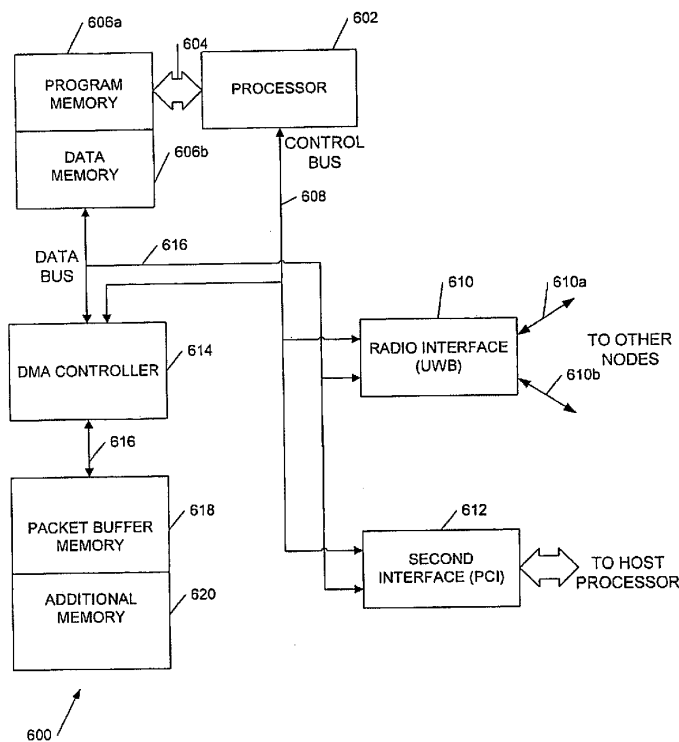
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**H04B 1/69** (2006.01)(52) **U.S. Cl.** ..... **375/130**(57) **ABSTRACT**

This invention generally relates to networks of communications devices, in particular ultra wideband (UWB) communications devices. An ultra-wideband (UWB) network comprising a plurality of UWB devices each forming a node of said network, pairs of said UWB devices being configured for communication with one another using one of a plurality of UWB channels, each said UWB device comprising a UWB transceiver for bidirectional communication over one or more of said UWB channels with at least one other of said UWB devices; and a device controller coupled to said UWB transceiver, said controller being configured to determine a said UWB channel for use in establishing a communication link with each other UWB device; whereby said network is configured for automatic construction of a set of communications links between said nodes of said network.

(21) Appl. No.: **10/516,747**(22) PCT Filed: **May 21, 2004**(86) PCT No.: **PCT/GB04/02201****Related U.S. Application Data**

(60) Provisional application No. 60/518,327, filed on Nov. 10, 2003.



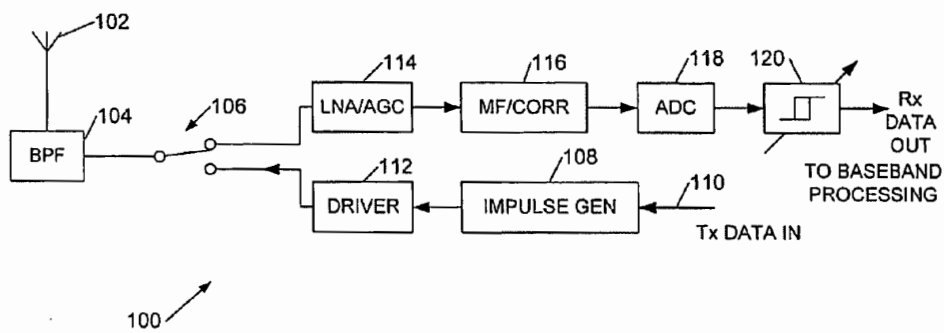


Figure 1a

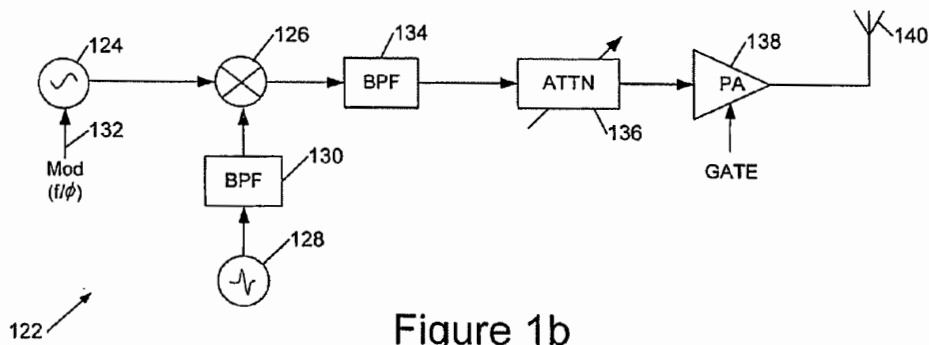


Figure 1b

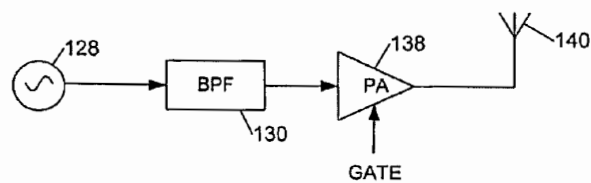


Figure 1c

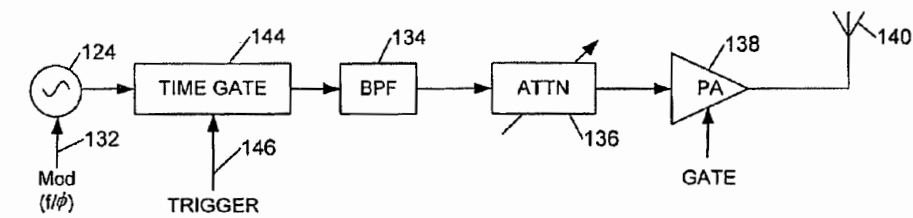


Figure 1d

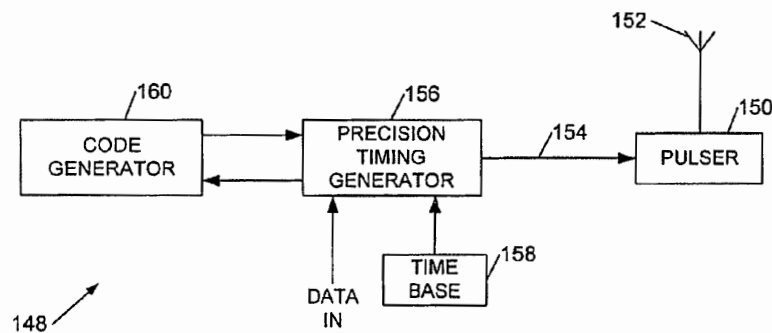


Figure 1e

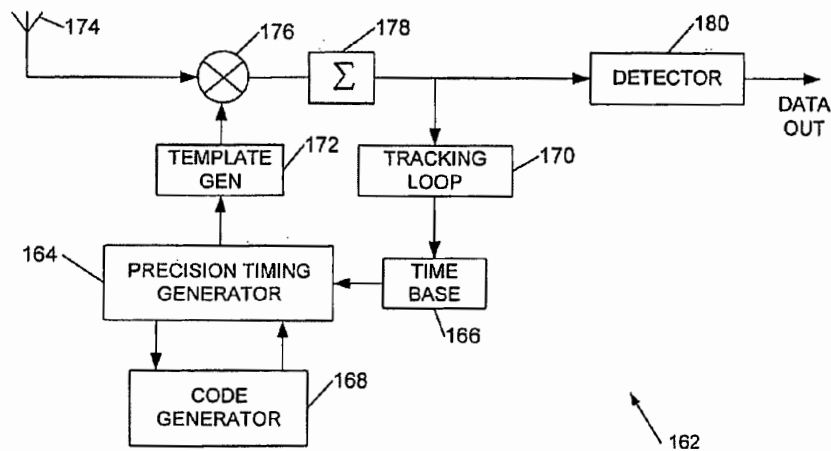


Figure 1f

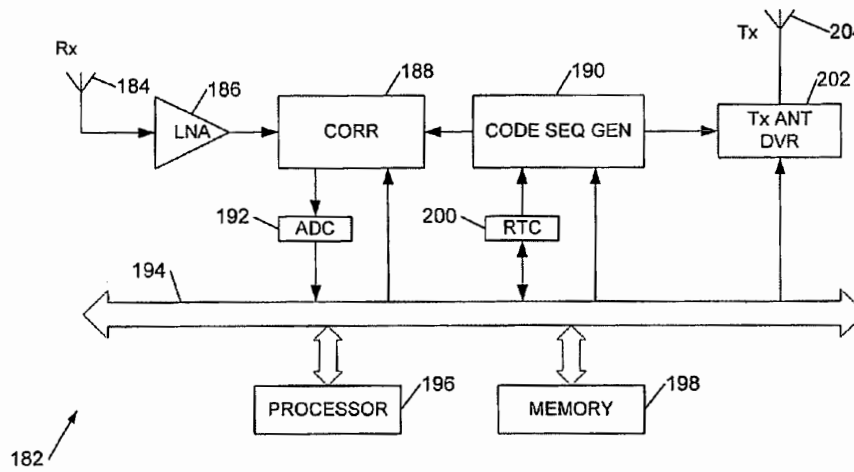


Figure 1g

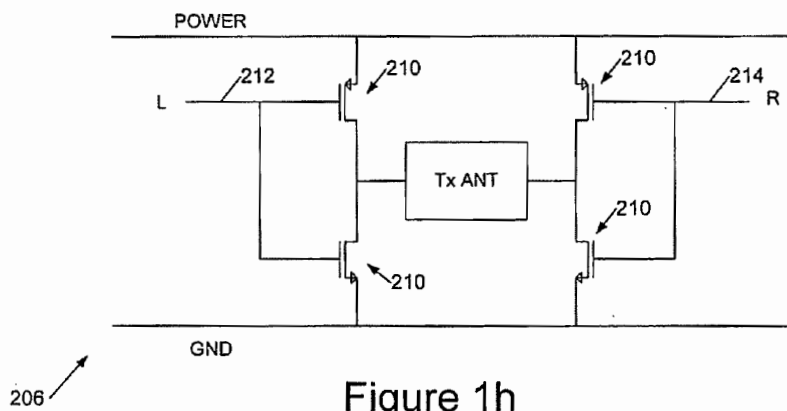


Figure 1h

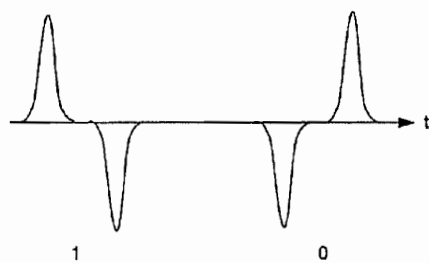


Figure 2g

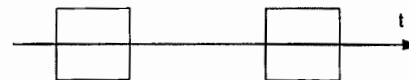


Figure 2h

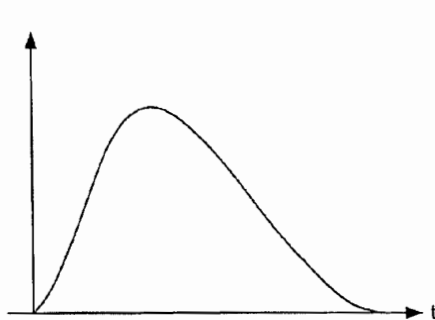


Figure 2a

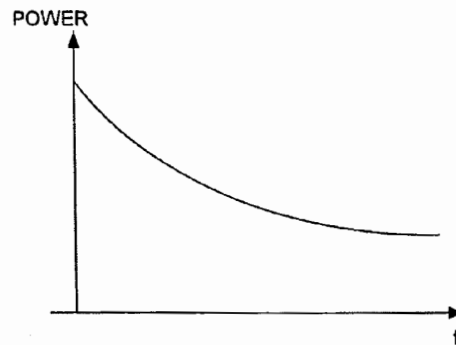


Figure 2b

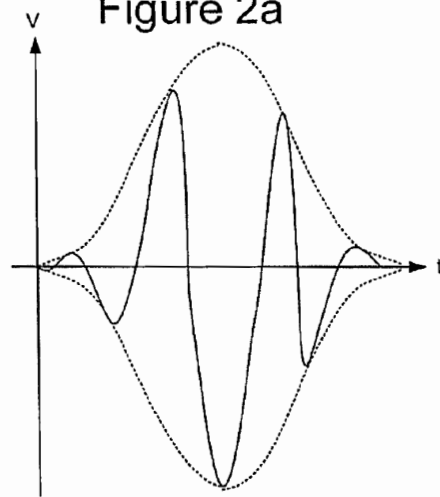


Figure 2c

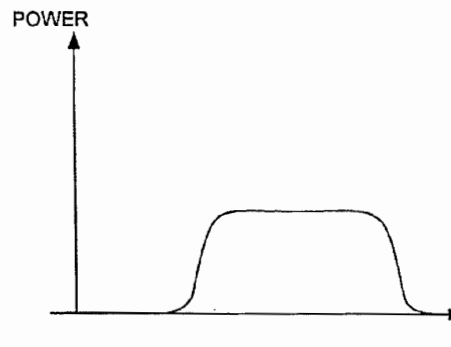


Figure 2d

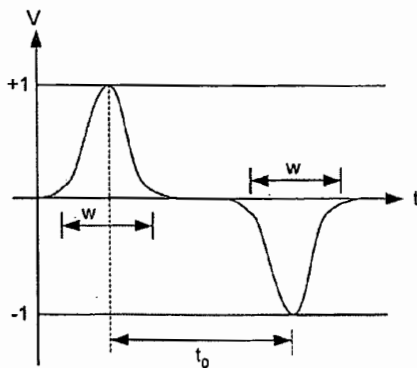


Figure 2e

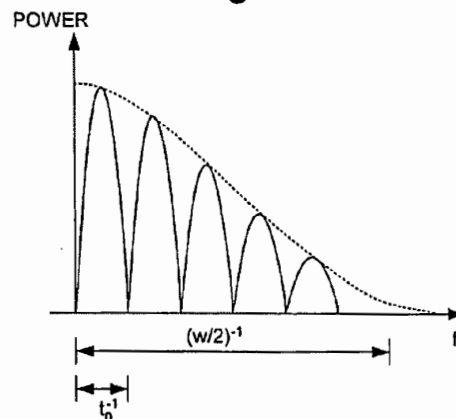


Figure 2f

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