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(54) Title: ENDPOINT CLOCK FREQUENCY ADJUSTMENT FOR NARROWBAND AND ULTRA-NARROWBAND COMMUNICATIONS IN MESH NETWORK

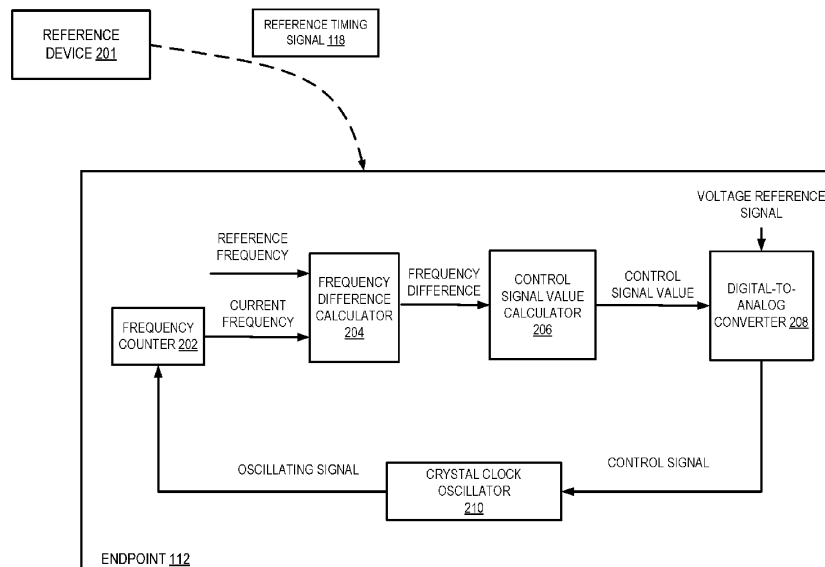


FIG. 2

(57) Abstract: Systems and methods are disclosed for adjusting clock frequencies of endpoint devices in a mesh network for narrowband and ultra-narrowband communications. An endpoint device receives a reference timing signal over a wireless network from a reference device in the network. The endpoint device determines the current value of the clock frequency of the endpoint device and further determines the frequency difference between the reference frequency of the reference timing signal and the current value of the clock frequency. Based on the frequency difference, the endpoint generates a control signal and applies the control signal to the crystal oscillator of the endpoint device to adjust the frequency of the crystal oscillator. The endpoint device communicates with another device in the network using the oscillating signal generated by the adjusted crystal oscillator.

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