

ABSTRACT

SIGNAL TRANSMISSION METHOD AND RELATED DEVICE

This application provides a signal transmission method and a related apparatus. In the method, a first initiating device sends a poll frame. The poll frame includes time-frequency location information of N first ultra-wideband UWB segment signals, and first delay information for each of M second responding devices to reply to the first initiating device with a response frame. The first initiating device receives a plurality of response frames based on a timestamp of the poll frame and the first delay information for each second responding device to reply to the first initiating device with the response frame. The poll frame sent by the first initiating device includes the first delay information for each of the M second responding devices to reply with the response frame, so that some or all of the M second responding devices may reply with response frames at different times determined based on different first delays, to join a ranging round of the first initiating device. Further, this helps the first initiating device perform ranging on a plurality of second responding devices in a short time, and helps improve ranging efficiency.

[Figure 5]