

# WIRELESS SENSING METHOD AND APPARATUS

## ABSTRACT

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A wireless sensing method and an apparatus are disclosed, and belong to the field of sensing technologies. An AP in a WLAN sends a beacon frame through a first antenna, and receives an echo signal through a second antenna, where the echo signal is obtained by reflecting or scattering the beacon frame. Then, the AP performs environment sensing based on the received echo signal. In this application, because the AP has a capability of sending and receiving a packet, the same AP sends a beacon frame and receives an echo signal of the beacon frame. A signal transmit/receive location is always known to the AP. Therefore, environment sensing precision is improved, a deployment location of the AP is not limited, and the AP can be flexibly applied to various scenarios. In addition, the beacon frame is periodically sent to announce existence of the AP. Therefore, the AP implements environment sensing through the beacon frame without additional packet sending, so that channel resources can be saved, and environment sensing can be completed in a normal communication process, thereby implementing integrated communication and sensing.

FIG. 4