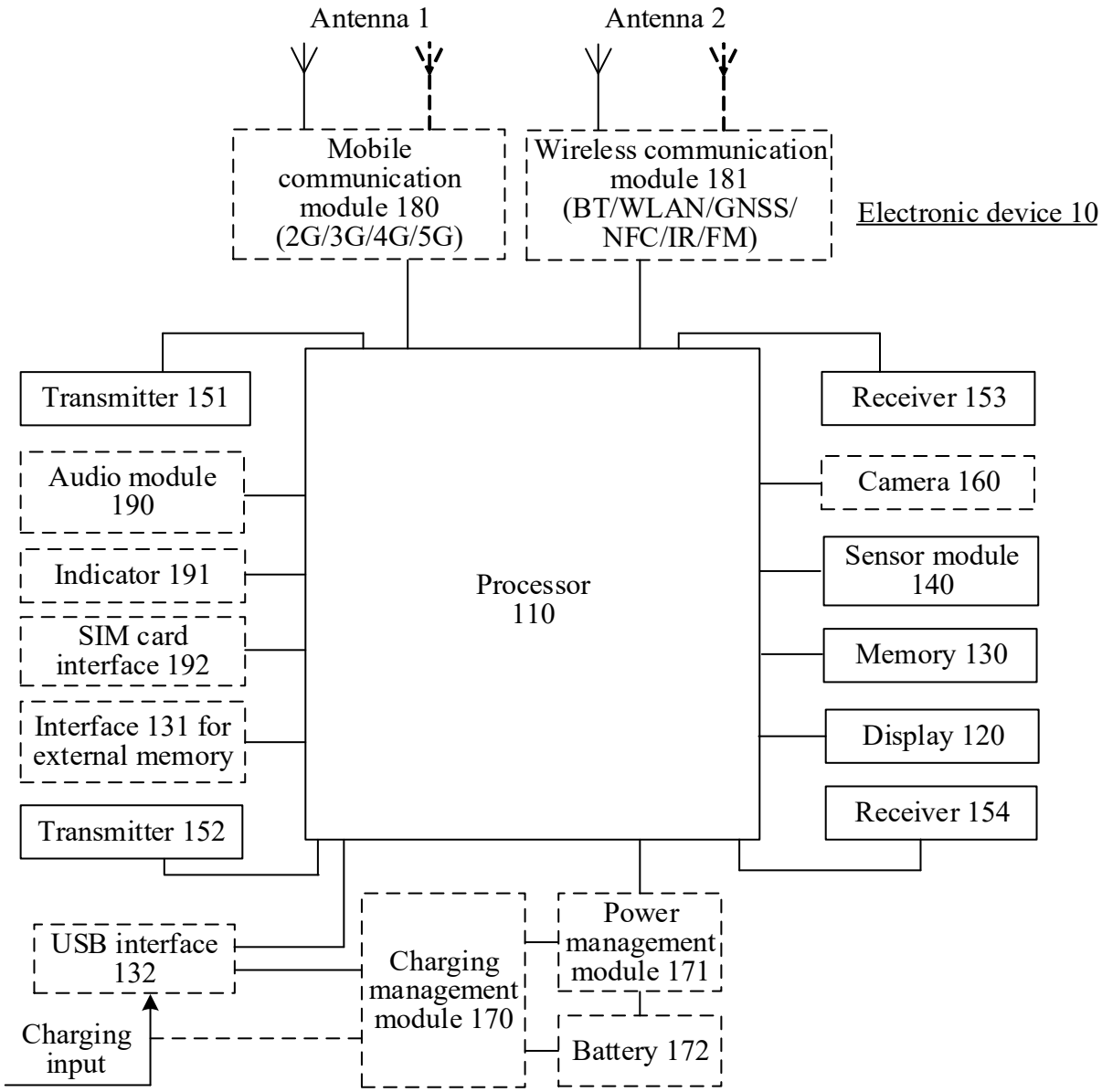

Antenna 1
Antenna 2
Mobile communication module 180 (2G/3G/4G/5G)
Wireless communication module 181 (BT/WLAN/GNSS/ NFC/IR/FM)
Electronic device 10
Transmitter 151
Receiver 153
Audio module 190
Camera 160
Indicator 191
Sensor module 140
SIM card interface 192
Processor 110
Memory 130
Interface 131 for external memory
Display 120
Transmitter 152
Receiver 154
USB interface 132
Charging management module 170
Power management module 171
Charging input
Battery 172

FIG. 1

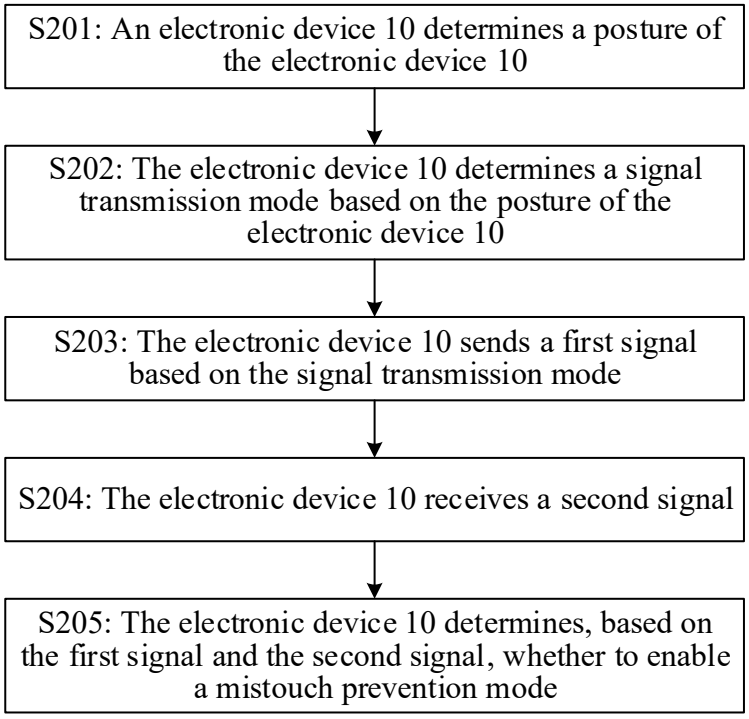

S201: An electronic device 10 determines a posture of the electronic device 10
S202: The electronic device 10 determines a signal transmission mode based on the posture of the electronic device 10
S203: The electronic device 10 sends a first signal based on the signal transmission mode
S204: The electronic device 10 receives a second signal
S205: The electronic device 10 determines, based on the first signal and the second signal, whether to enable a mistouch prevention mode

FIG. 2

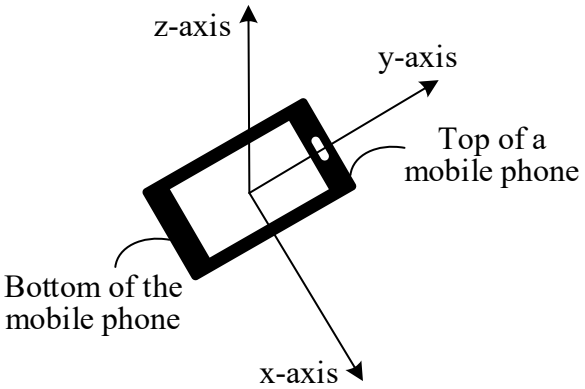

z-axis
y-axis
Top of a mobile phone
Bottom of the mobile phone
x-axis

FIG. 3

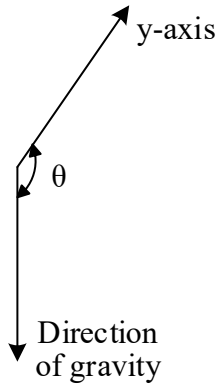


FIG. 4

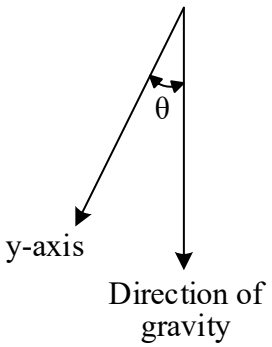


FIG. 5

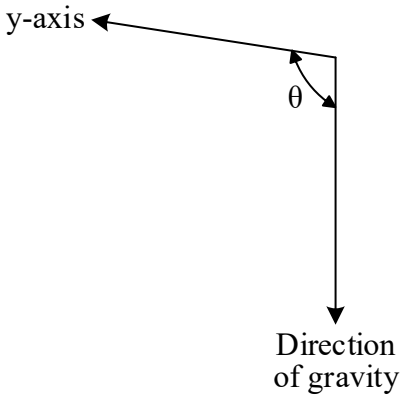


FIG. 6

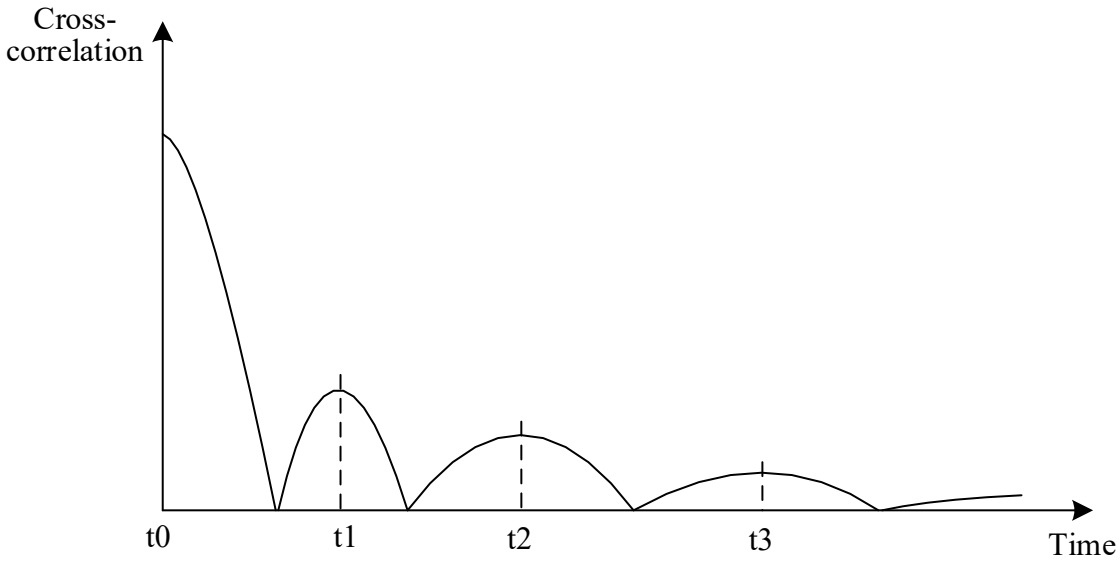

Cross-correlation
t0
t1
t2
t3
Time

FIG. 7

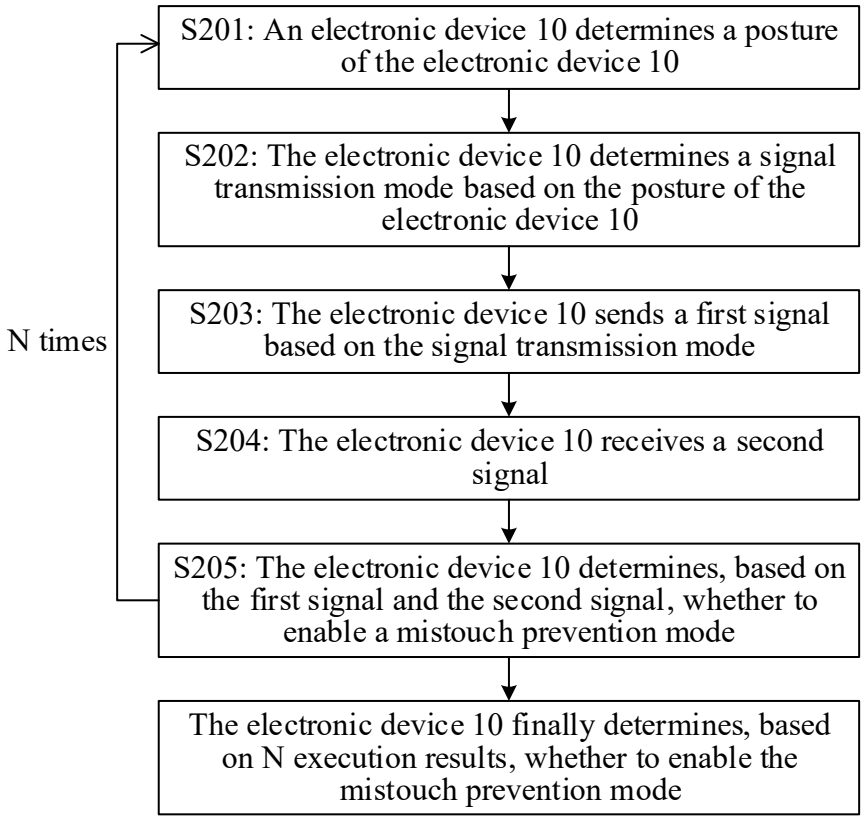

S201: An electronic device 10 determines a posture of the electronic device 10
S202: The electronic device 10 determines a signal transmission mode based on the posture of the electronic device 10
S203: The electronic device 10 sends a first signal based on the signal transmission mode
S204: The electronic device 10 receives a second signal
S205: The electronic device 10 determines, based on the first signal and the second signal, whether to enable a mistouch prevention mode
The electronic device 10 finally determines, based on N execution results, whether to enable the mistouch prevention mode
N times

FIG. 8

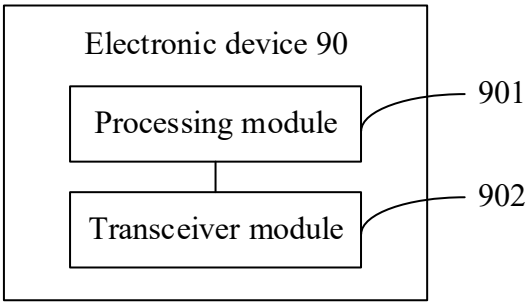

Electronic device 90
Processing module
901
Transceiver module
902

FIG. 9