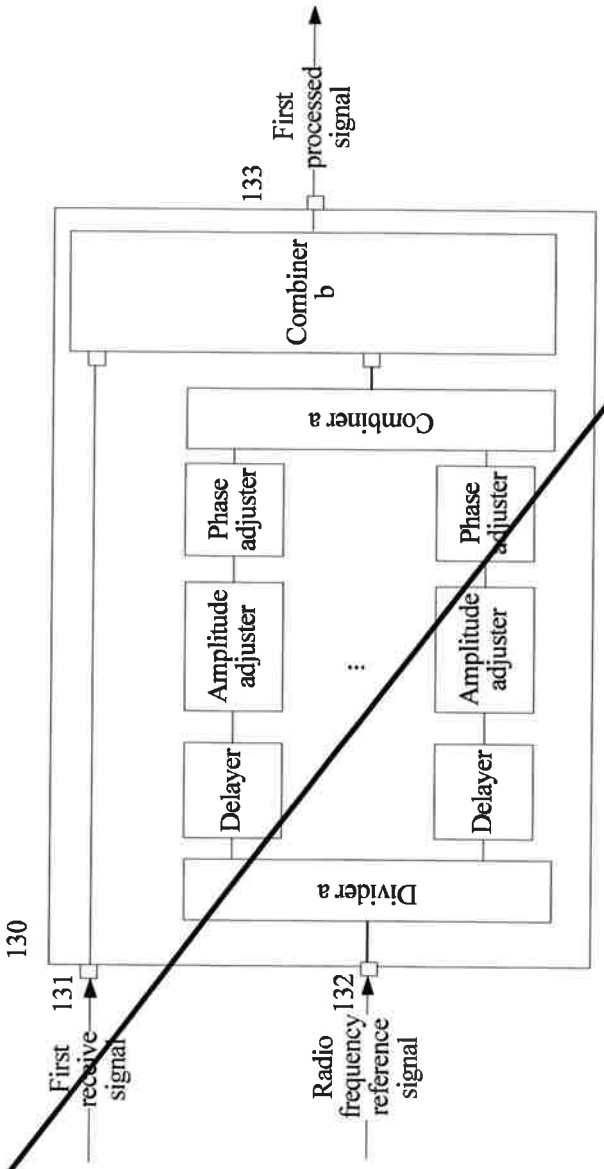

130
131
First receive signal
132
Radio frequency reference signal
Divider a
Delayer
Amplitude adjuster
Phase adjuster
Delayer
Amplitude adjuster
Phase adjuster
Combiner a
Combiner b
133
First processed signal

FIG. 3

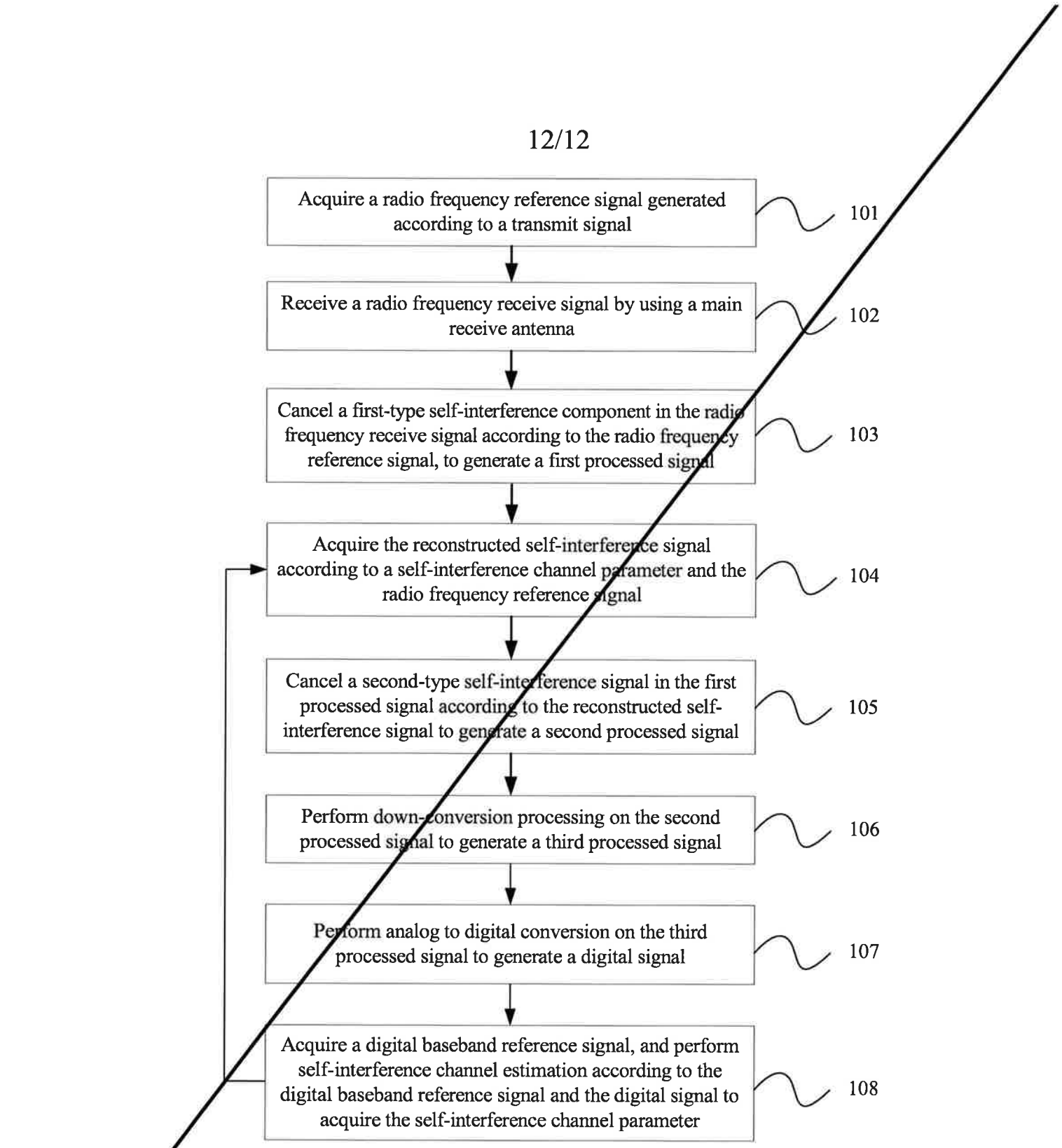

Acquire a radio frequency reference signal generated according to a transmit signal
101
Receive a radio frequency receive signal by using a main receive antenna
102
Cancel a first-type self-interference component in the radio frequency receive signal according to the radio frequency reference signal, to generate a first processed signal
103
Acquire the reconstructed self-interference signal according to a self-interference channel parameter and the radio frequency reference signal
104
Cancel a second-type self-interference signal in the first processed signal according to the reconstructed self-interference signal to generate a second processed signal
105
Perform down-conversion processing on the second processed signal to generate a third processed signal
106
Perform analog to digital conversion on the third processed signal to generate a digital signal
107
Acquire a digital baseband reference signal, and perform self-interference channel estimation according to the digital baseband reference signal and the digital signal to acquire the self-interference channel parameter
108

FIG. 12

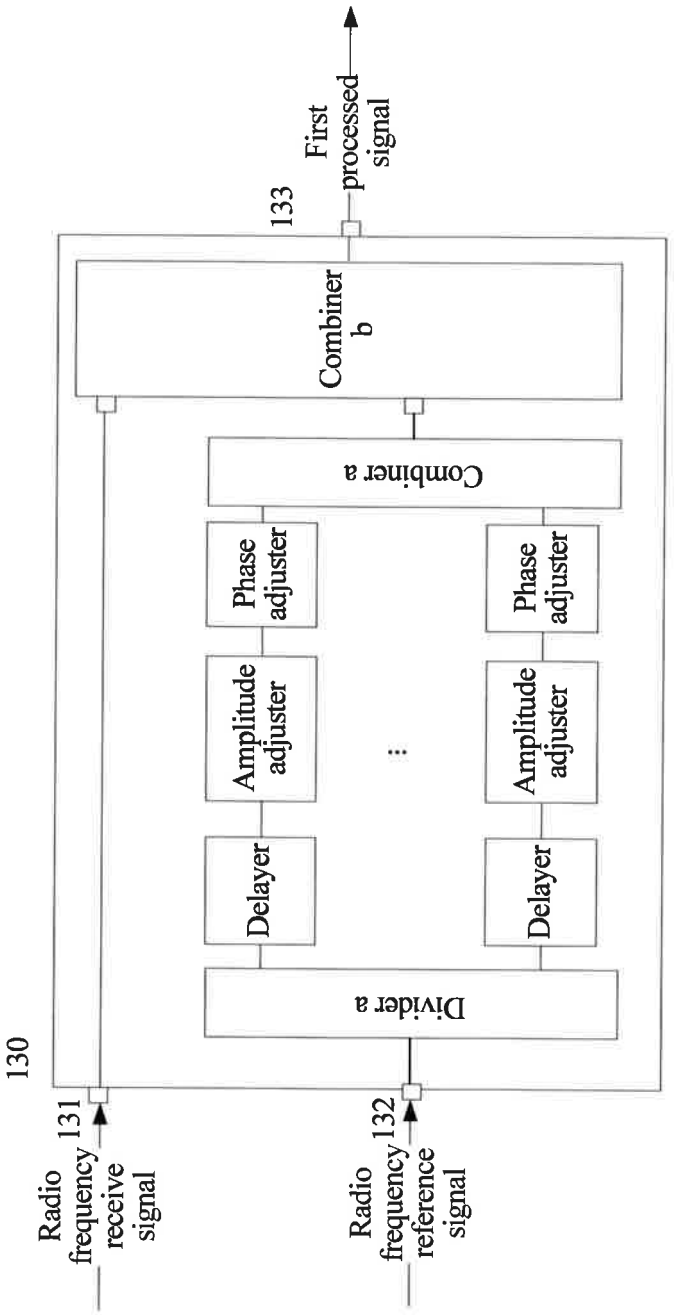

130
131
Radio frequency receive signal
132
Radio frequency reference signal
Divider a
Delayer
Amplitude adjuster
Phase adjuster
Delayer
Amplitude adjuster
Phase adjuster
Combiner a
Combiner b
133
First processed signal

FIG. 3

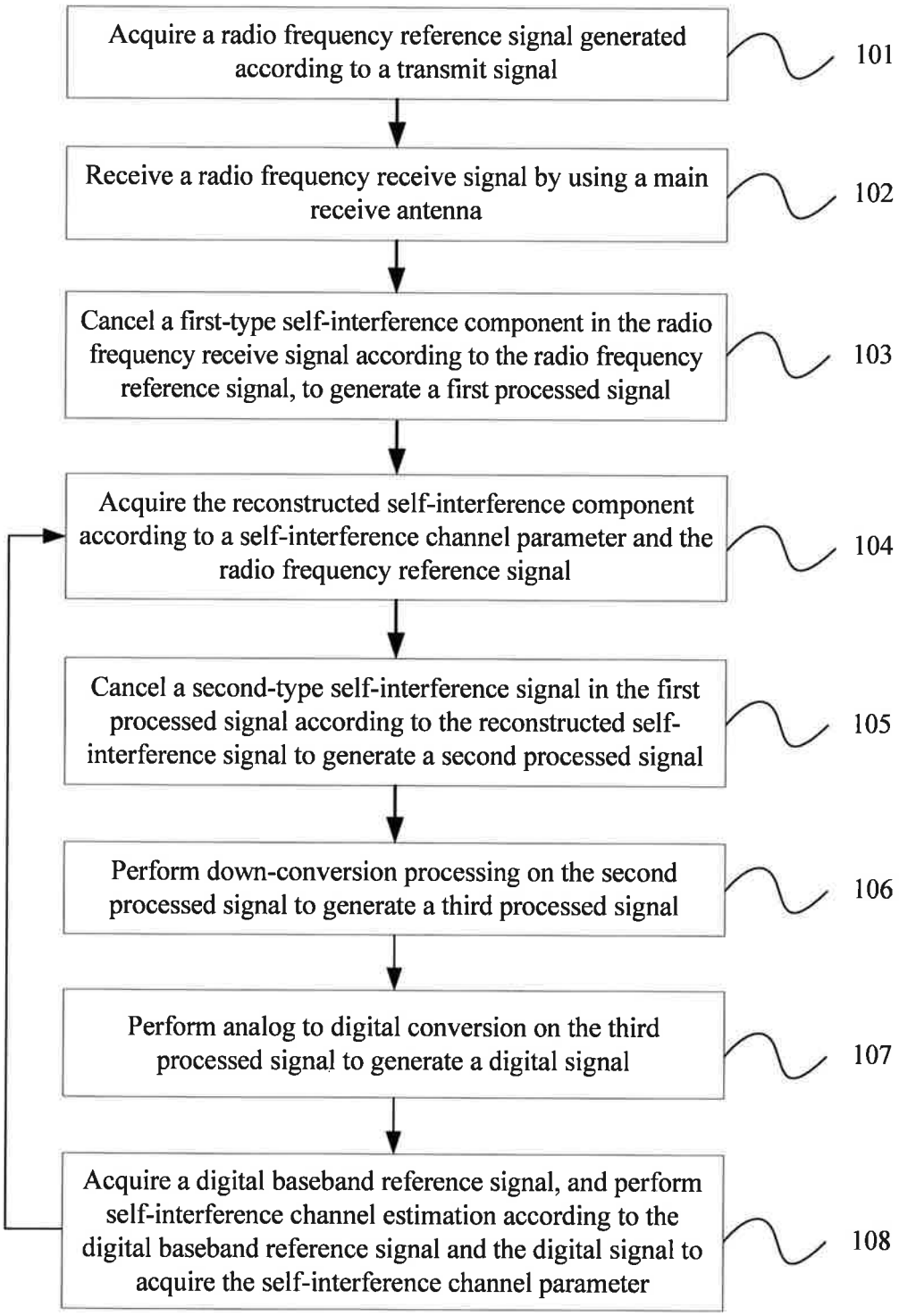

Acquire a radio frequency reference signal generated according to a transmit signal
101
Receive a radio frequency receive signal by using a main receive antenna
102
Cancel a first-type self-interference component in the radio frequency receive signal according to the radio frequency reference signal, to generate a first processed signal
103
Acquire the reconstructed self-interference component according to a self-interference channel parameter and the radio frequency reference signal
104
Cancel a second-type self-interference signal in the first processed signal according to the reconstructed self-interference signal to generate a second processed signal
105
Perform down-conversion processing on the second processed signal to generate a third processed signal
106
Perform analog to digital conversion on the third processed signal to generate a digital signal
107
Acquire a digital baseband reference signal, and perform self-interference channel estimation according to the digital baseband reference signal and the digital signal to acquire the self-interference channel parameter
108

FIG. 12