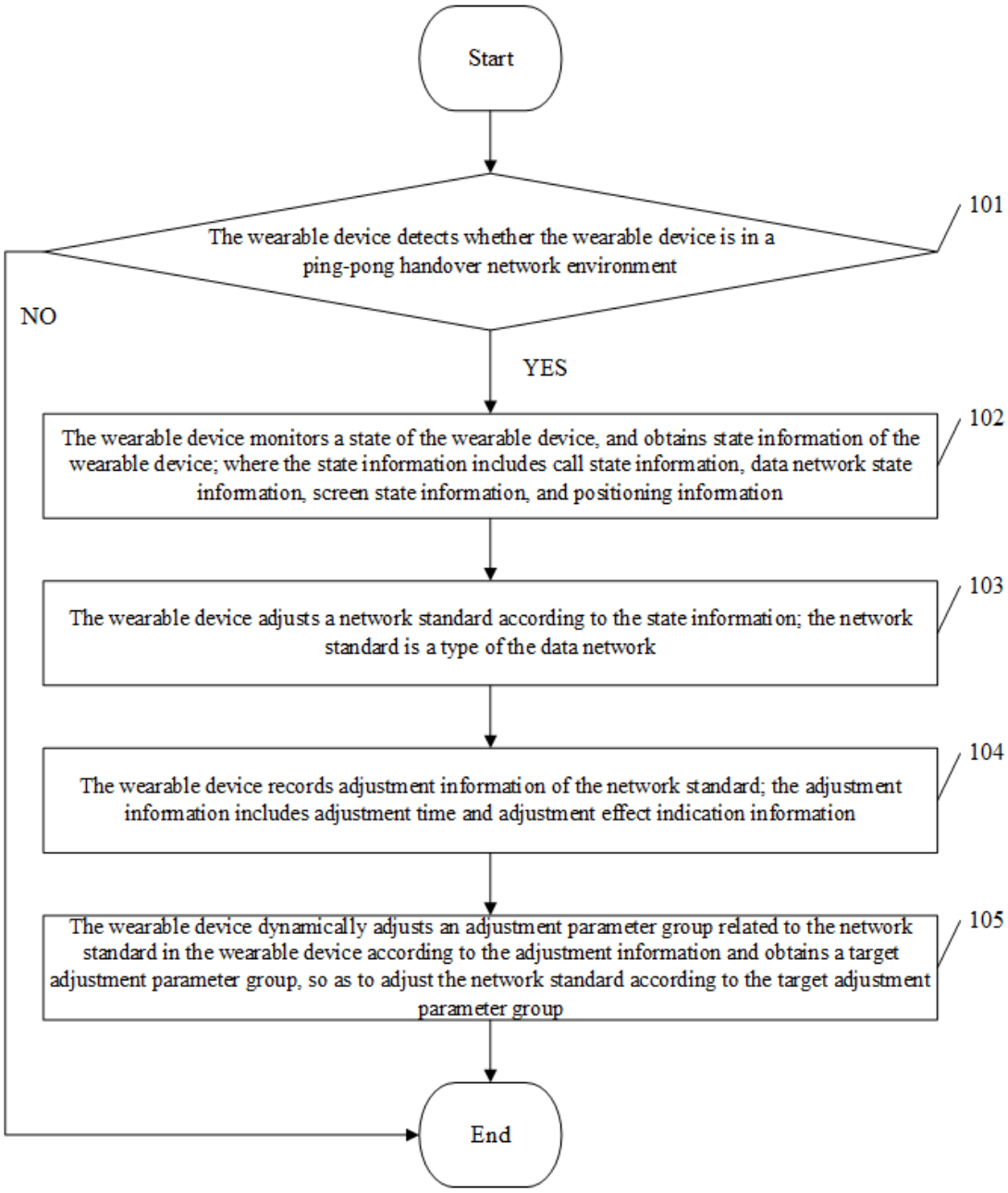
Start
The wearable device detects whether the wearable device is in a ping-pong handover network environment
101
NO
YES
The wearable device monitors a state of the wearable device, and obtains state information of the wearable device; where the state information includes call state information, data network state information, screen state information, and positioning information
102
The wearable device adjusts a network standard according to the state information; the network standard is a type of the data network
103
The wearable device records adjustment information of the network standard; the adjustment information includes adjustment time and adjustment effect indication information
104
The wearable device dynamically adjusts an adjustment parameter group related to the network standard in the wearable device according to the adjustment information and obtains a target adjustment parameter group, so as to adjust the network standard according to the target adjustment parameter group
105
End

FIG. 1

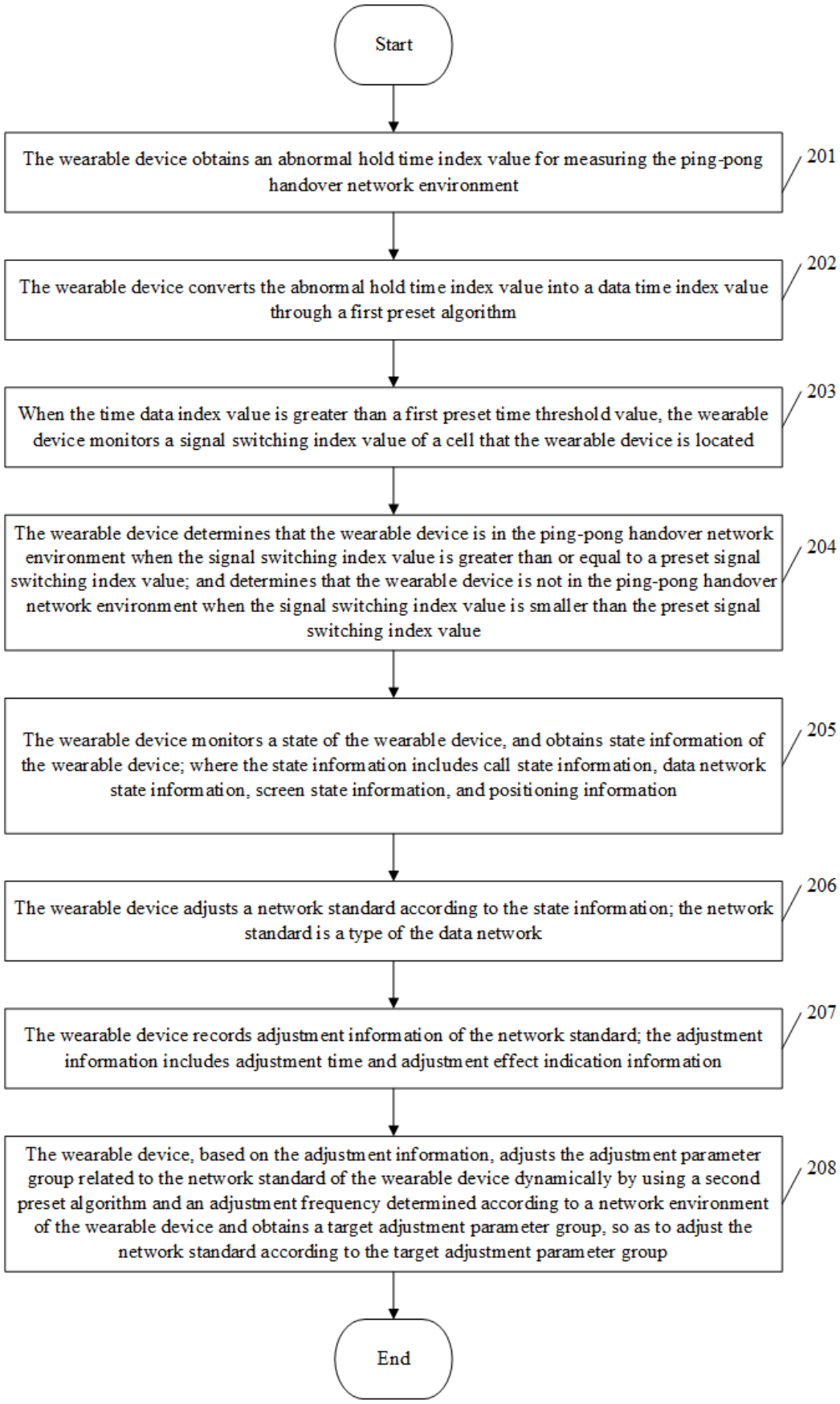
Start
The wearable device obtains an abnormal hold time index value for measuring the ping-pong handover network environment
201
The wearable device converts the abnormal hold time index value into a data time index value through a first preset algorithm
202
When the time data index value is greater than a first preset time threshold value, the wearable device monitors a signal switching index value of a cell that the wearable device is located
203
The wearable device determines that the wearable device is in the ping-pong handover network environment when the signal switching index value is greater than or equal to a preset signal switching index value; and determines that the wearable device is not in the ping-pong handover network environment when the signal switching index value is smaller than the preset signal switching index value
204
The wearable device monitors a state of the wearable device, and obtains state information of the wearable device; where the state information includes call state information, data network state information, screen state information, and positioning information
205
The wearable device adjusts a network standard according to the state information; the network standard is a type of the data network
206
The wearable device records adjustment information of the network standard; the adjustment information includes adjustment time and adjustment effect indication information
207
The wearable device, based on the adjustment information, adjusts the adjustment parameter group related to the network standard of the wearable device dynamically by using a second preset algorithm and an adjustment frequency determined according to a network environment of the wearable device and obtains a target adjustment parameter group, so as to adjust the network standard according to the target adjustment parameter group
208
End

FIG. 2

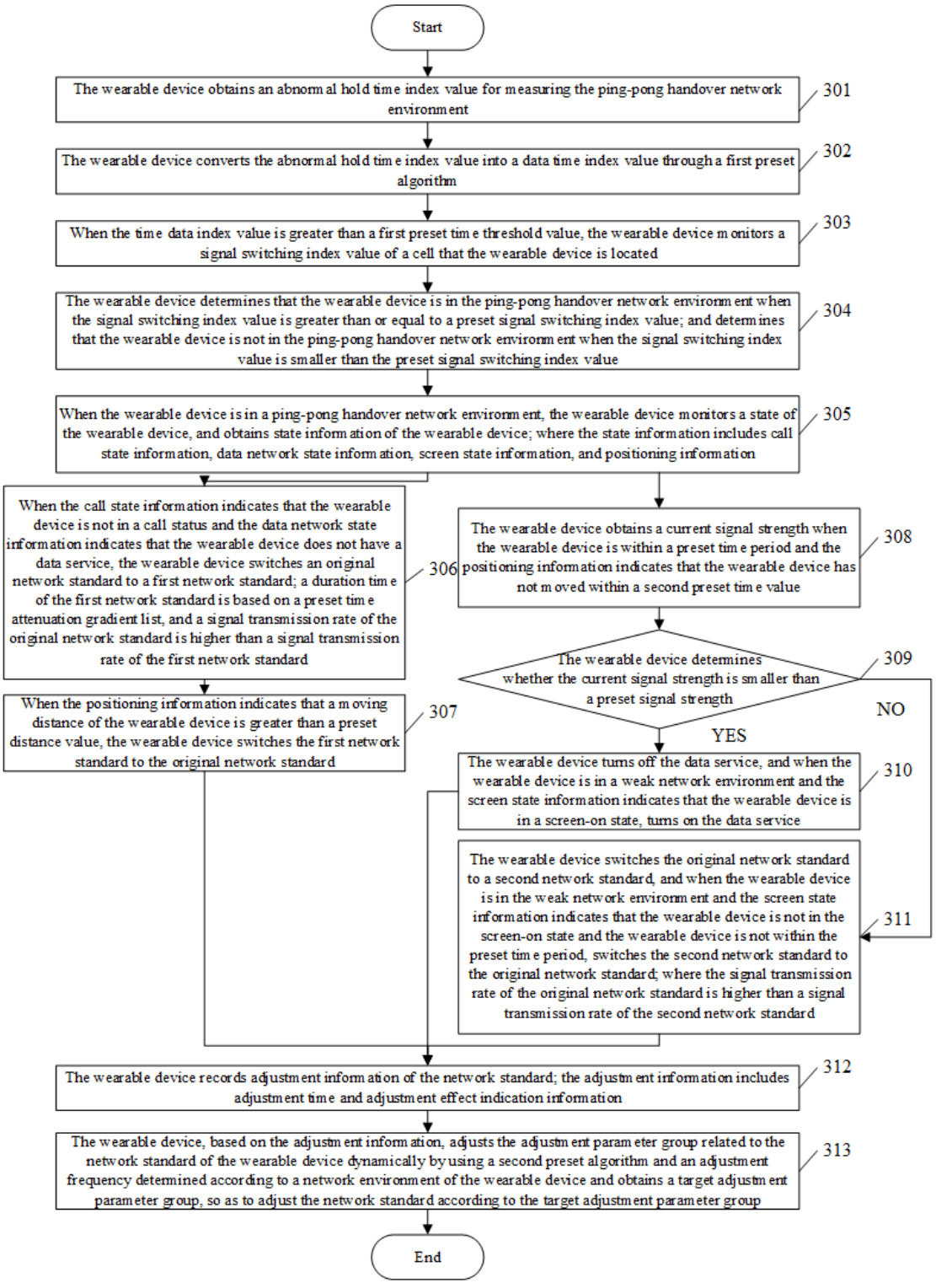
Start
The wearable device obtains an abnormal hold time index value for measuring the ping-pong handover network environment
301
The wearable device converts the abnormal hold time index value into a data time index value through a first preset algorithm
302
When the time data index value is greater than a first preset time threshold value, the wearable device monitors a signal switching index value of a cell that the wearable device is located
303
The wearable device determines that the wearable device is in the ping-pong handover network environment when the signal switching index value is greater than or equal to a preset signal switching index value; and determines that the wearable device is not in the ping-pong handover network environment when the signal switching index value is smaller than the preset signal switching index value
304
When the wearable device is in a ping-pong handover network environment, the wearable device monitors a state of the wearable device, and obtains state information of the wearable device; where the state information includes call state information, data network state information, screen state information, and positioning information
305
When the call state information indicates that the wearable device is not in a call status and the data network state information indicates that the wearable device does not have a data service, the wearable device switches an original network standard to a first network standard; a duration time of the first network standard is based on a preset time attenuation gradient list, and a signal transmission rate of the original network standard is higher than a signal transmission rate of the first network standard
306
When the positioning information indicates that a moving distance of the wearable device is greater than a preset distance value, the wearable device switches the first network standard to the original network standard
307
The wearable device obtains a current signal strength when the wearable device is within a preset time period and the positioning information indicates that the wearable device has not moved within a second preset time value
308
The wearable device determines whether the current signal strength is smaller than a preset signal strength
309
NO
YES
The wearable device turns off the data service, and when the wearable device is in a weak network environment and the screen state information indicates that the wearable device is in a screen-on state, turns on the data service
310
The wearable device switches the original network standard to a second network standard, and when the wearable device is in the weak network environment and the screen state information indicates that the wearable device is not in the screen-on state and the wearable device is not within the preset time period, switches the second network standard to the original network standard; where the signal transmission rate of the original network standard is higher than a signal transmission rate of the second network standard
311
The wearable device records adjustment information of the network standard; the adjustment information includes adjustment time and adjustment effect indication information
312
The wearable device, based on the adjustment information, adjusts the adjustment parameter group related to the network standard of the wearable device dynamically by using a second preset algorithm and an adjustment frequency determined according to a network environment of the wearable device and obtains a target adjustment parameter group, so as to adjust the network standard according to the target adjustment parameter group
313
End

FIG. 3

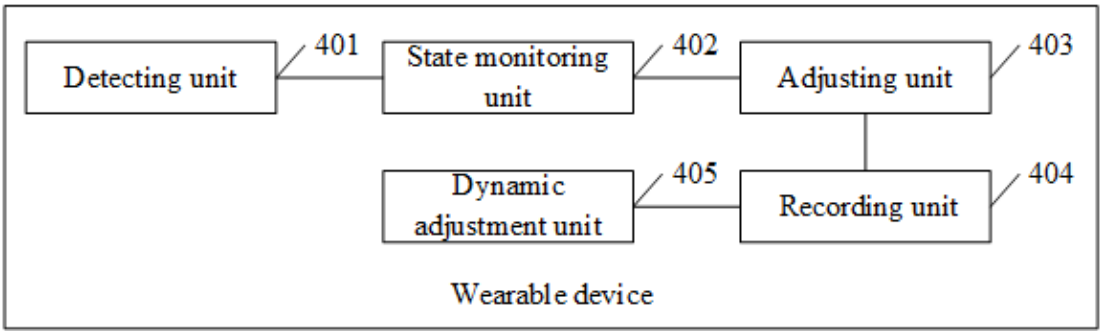

FIG.4

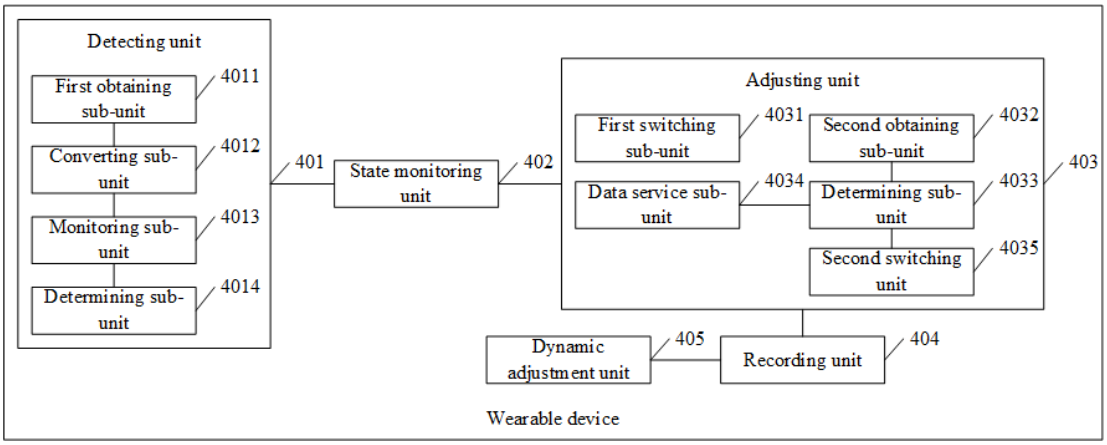

FIG. 5

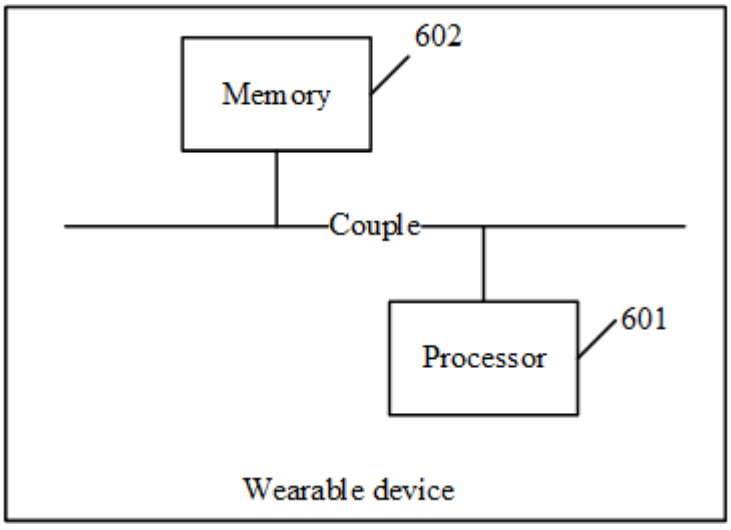

FIG. 6