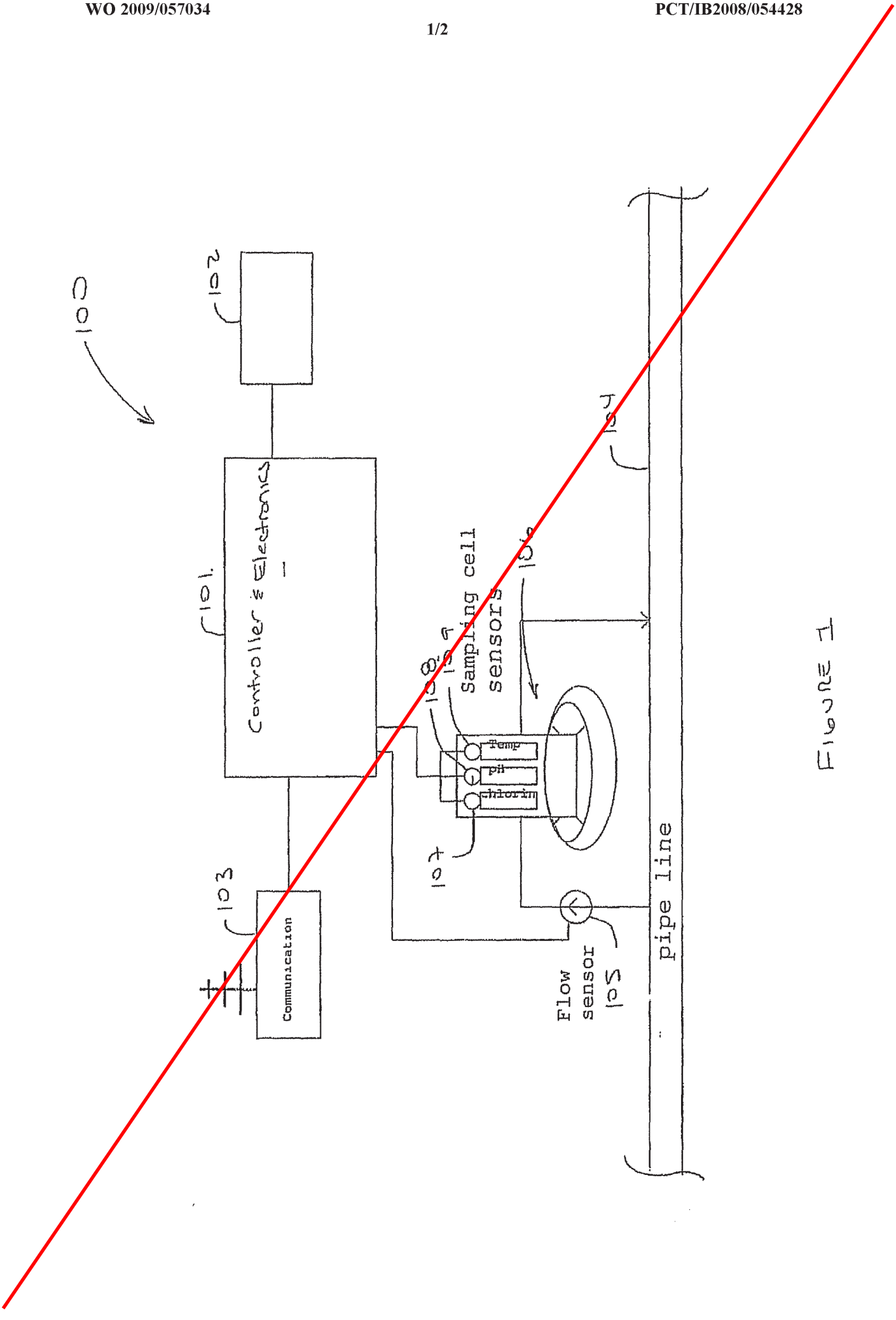

100
102
101
Controller & Electronics
103
Communication
Sampling cell
sensors
104
105
Temp
pH
chlorin
107
Flow
sensor
108
pipe line
106

Figure 1

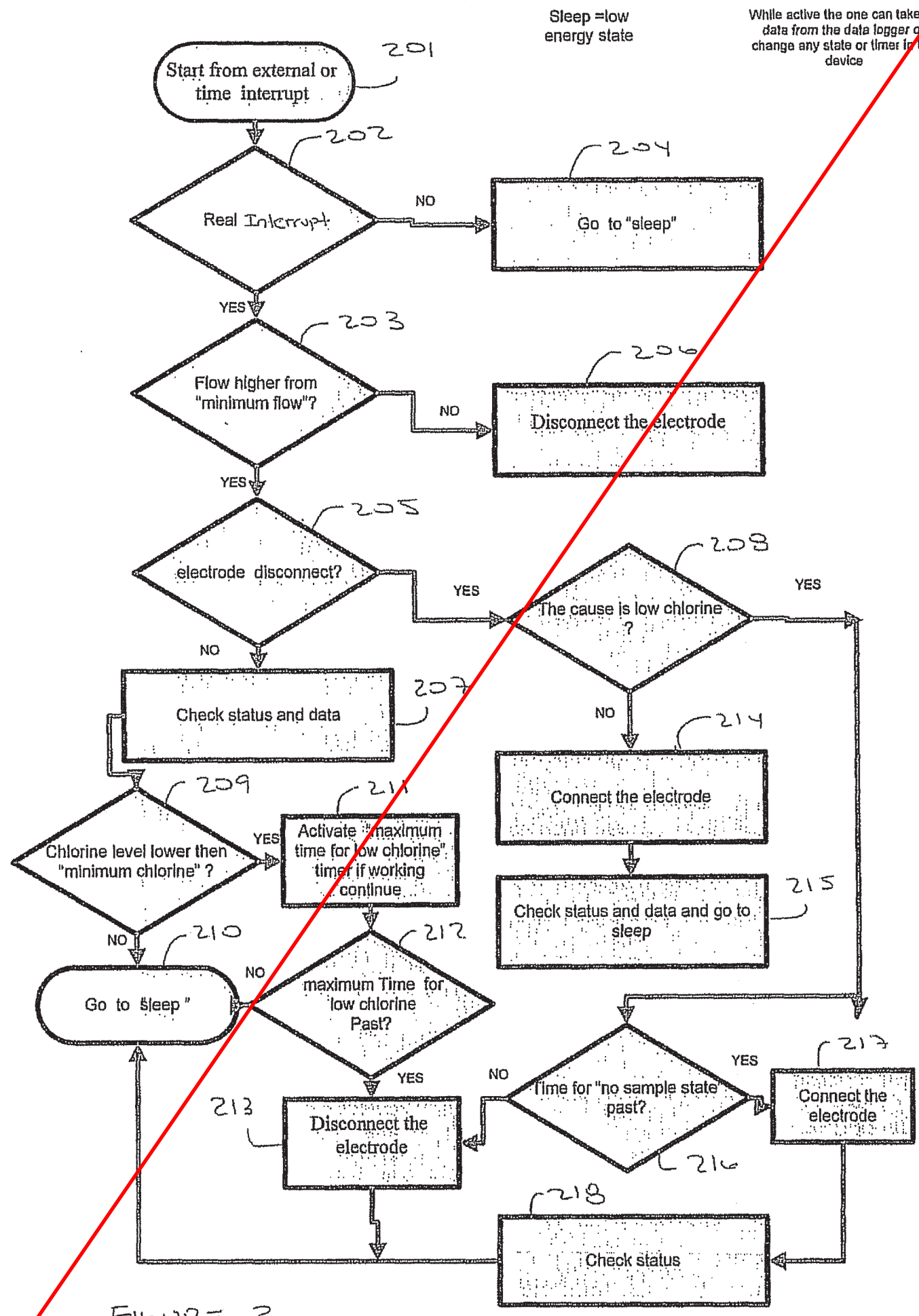

Sleep =low energy state
While active the one can take all data from the data logger or change any state or timer in the device
Start from external or time interrupt
201
Real Interrupt
202
NO
Go to "sleep"
204
YES
Flow higher from "minimum flow"?
203
NO
Disconnect the electrode
206
YES
electrode disconnect?
205
YES
The cause is low chlorine ?
208
YES
NO
Check status and data
207
NO
Connect the electrode
214
Chlorine level lower then "minimum chlorine" ?
209
YES
Activate "maximum time for low chlorine" timer if working continue
211
Check status and data and go to sleep
215
NO
Go to "sleep"
210
NO
maximum Time for low chlorine Past?
212
YES
Time for "no sample state" past?
YES
NO
Connect the electrode
217
Disconnect the electrode
213
216
Check status
218

FIGURE 2

FIG. 1

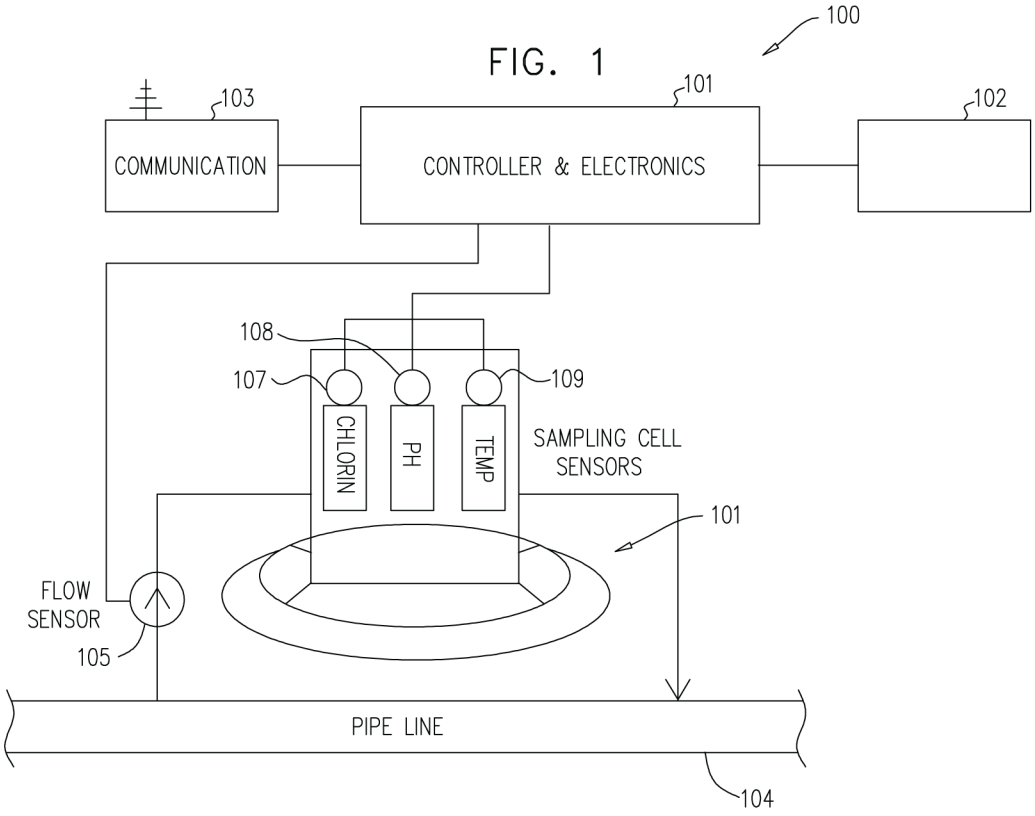
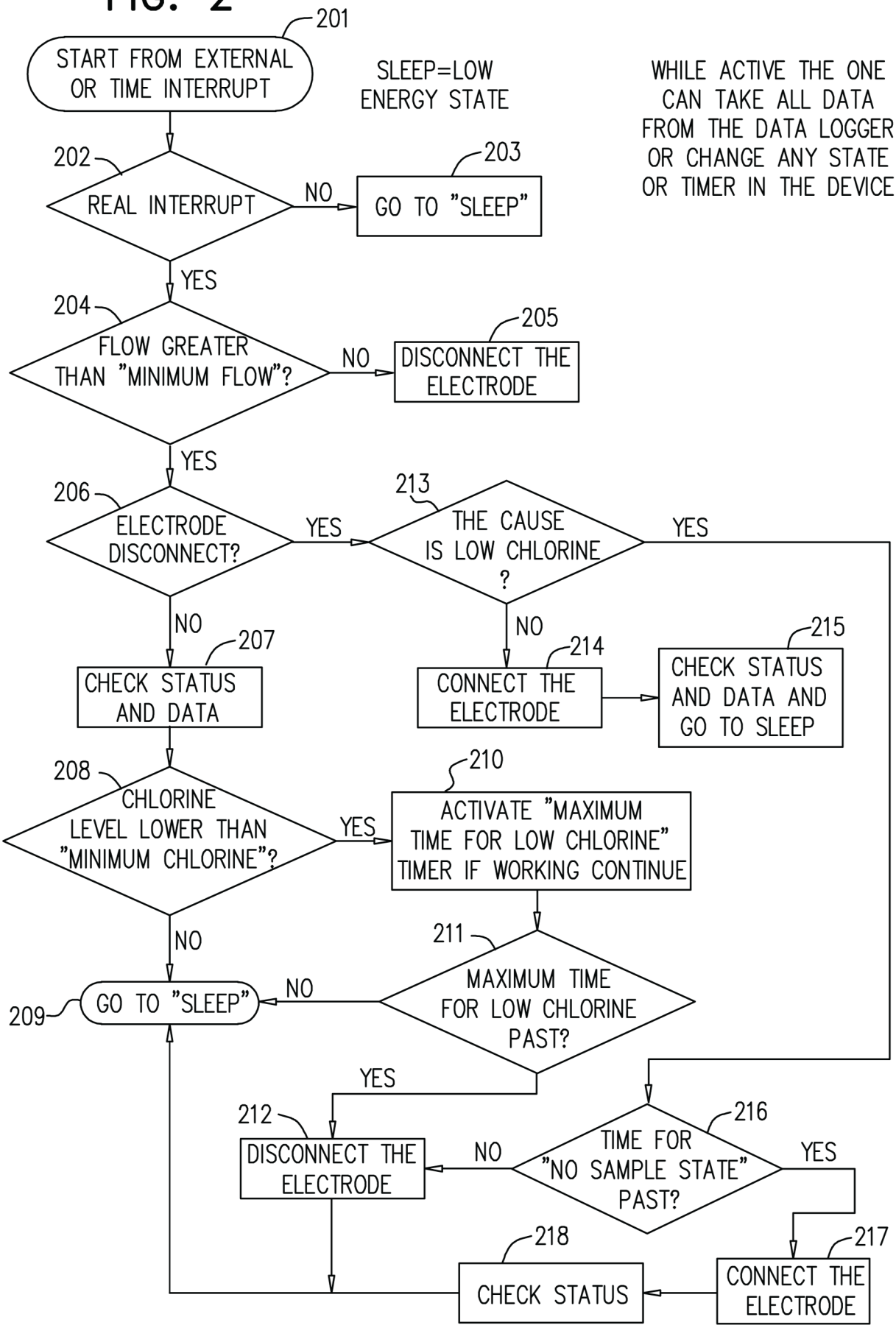

100
103
101
102
COMMUNICATION
CONTROLLER & ELECTRONICS
108
107
109
CHLORIN
PH
TEMP
SAMPLING CELL
SENSORS
101
FLOW
SENSOR
105
PIPE LINE
104

FIG. 2


201
START FROM EXTERNAL OR TIME INTERRUPT
SLEEP=LOW ENERGY STATE
WHILE ACTIVE THE ONE CAN TAKE ALL DATA FROM THE DATA LOGGER OR CHANGE ANY STATE OR TIMER IN THE DEVICE
202
REAL INTERRUPT
NO
203
GO TO "SLEEP"
YES
204
FLOW GREATER THAN "MINIMUM FLOW"?
NO
205
DISCONNECT THE ELECTRODE
YES
206
ELECTRODE DISCONNECT?
YES
213
THE CAUSE IS LOW CHLORINE ?
YES
NO
207
CHECK STATUS AND DATA
NO
214
CONNECT THE ELECTRODE
215
CHECK STATUS AND DATA AND GO TO SLEEP
208
CHLORINE LEVEL LOWER THAN "MINIMUM CHLORINE"?
YES
210
ACTIVATE "MAXIMUM TIME FOR LOW CHLORINE" TIMER IF WORKING CONTINUE
NO
211
MAXIMUM TIME FOR LOW CHLORINE PAST?
NO
209
GO TO "SLEEP"
YES
212
DISCONNECT THE ELECTRODE
NO
216
TIME FOR "NO SAMPLE STATE" PAST?
YES
218
CHECK STATUS
217
CONNECT THE ELECTRODE