FIG. 1

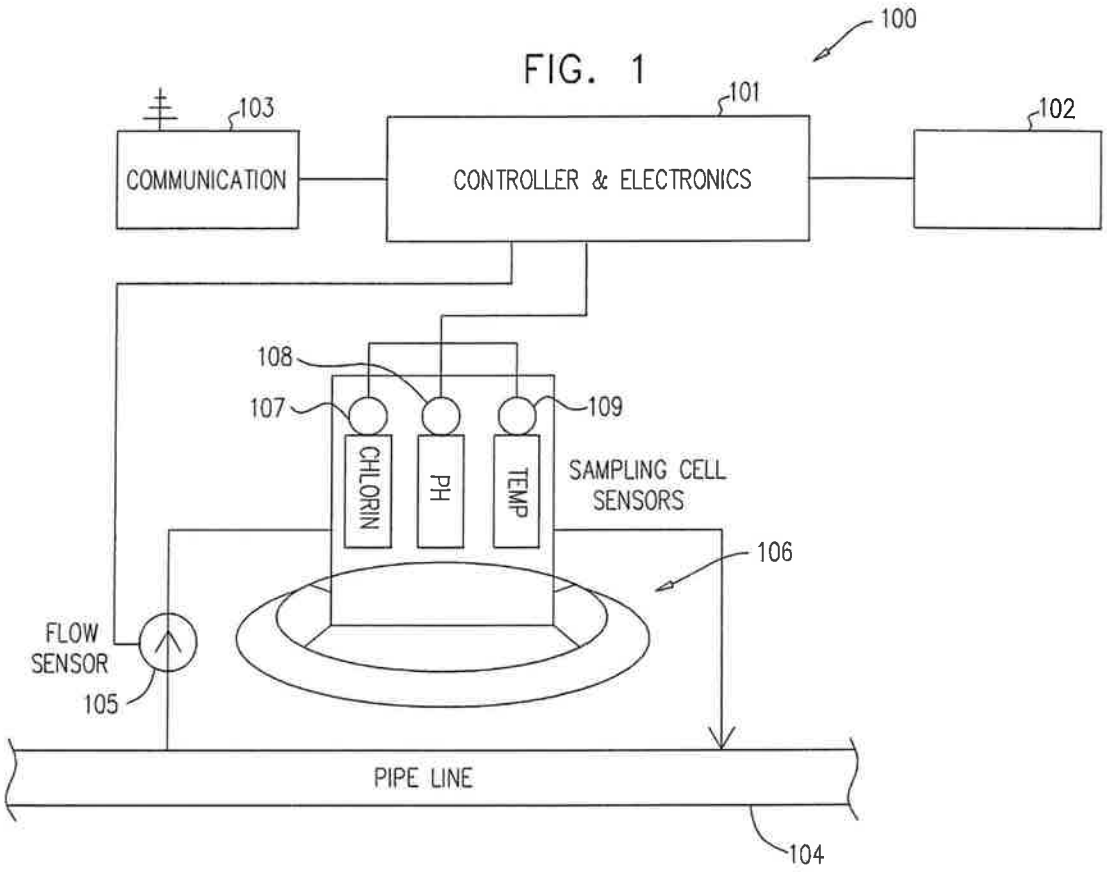
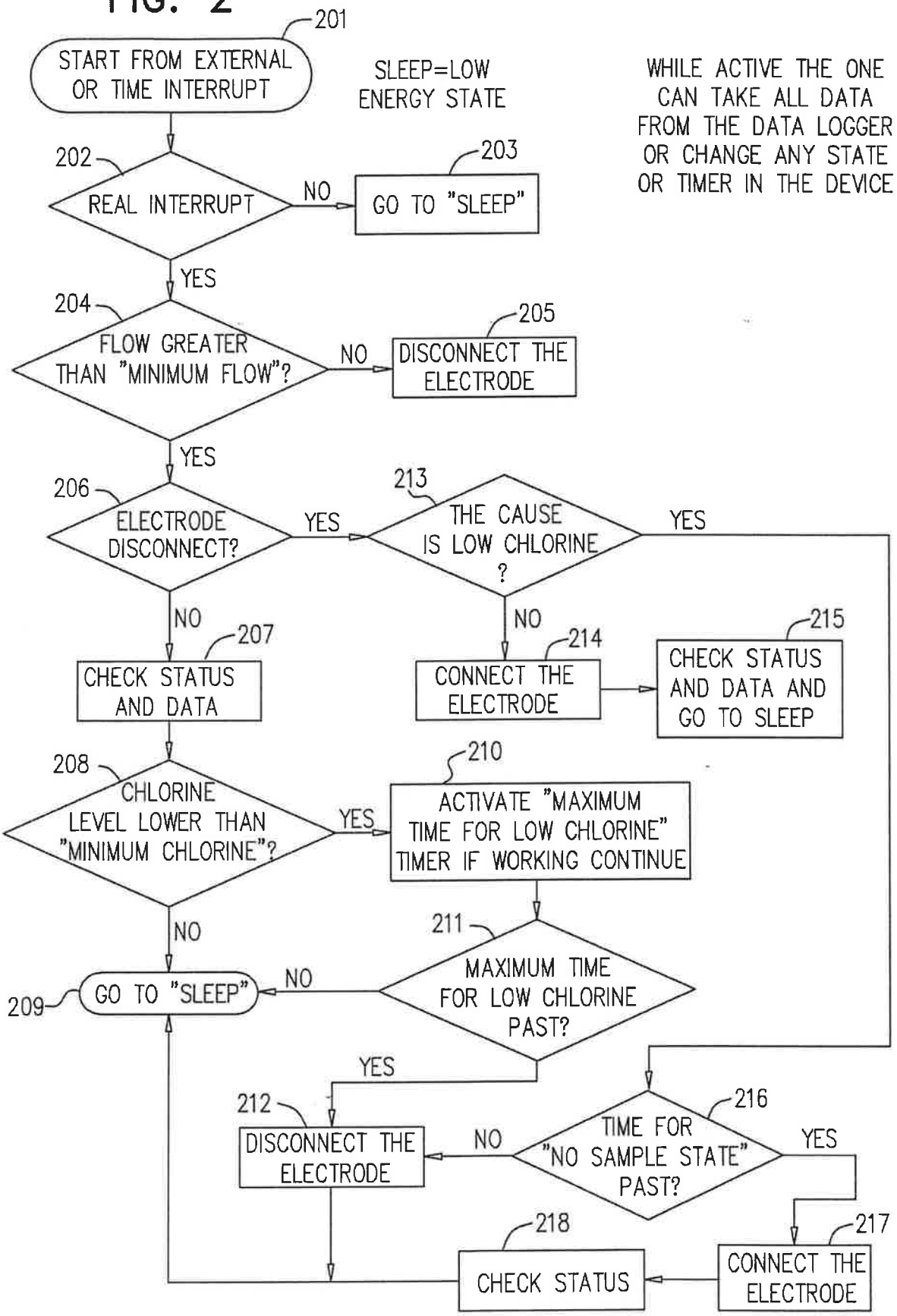

100
103
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COMMUNICATION
CONTROLLER & ELECTRONICS
108
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CHLORIN
PH
TEMP
SAMPLING CELL
SENSORS
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FLOW
SENSOR
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PIPE 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?
209
GO TO "SLEEP"
NO
YES
212
DISCONNECT THE ELECTRODE
NO
216
TIME FOR "NO SAMPLE STATE" PAST?
YES
218
CHECK STATUS
217
CONNECT THE ELECTRODE