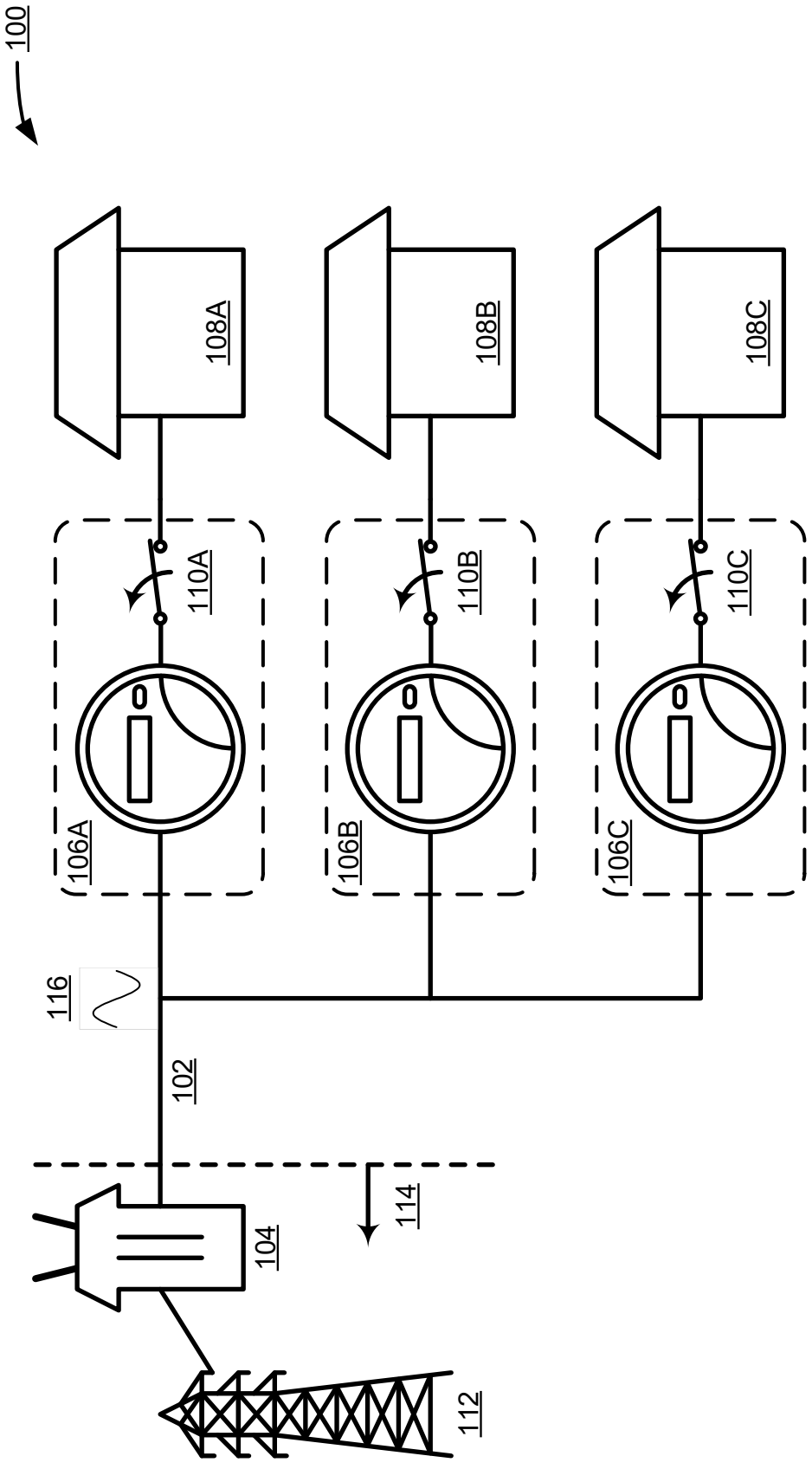

100
108A
108B
108C
110A
110B
110C
106A
106B
106C
116
102
104
114
112

FIG. 1

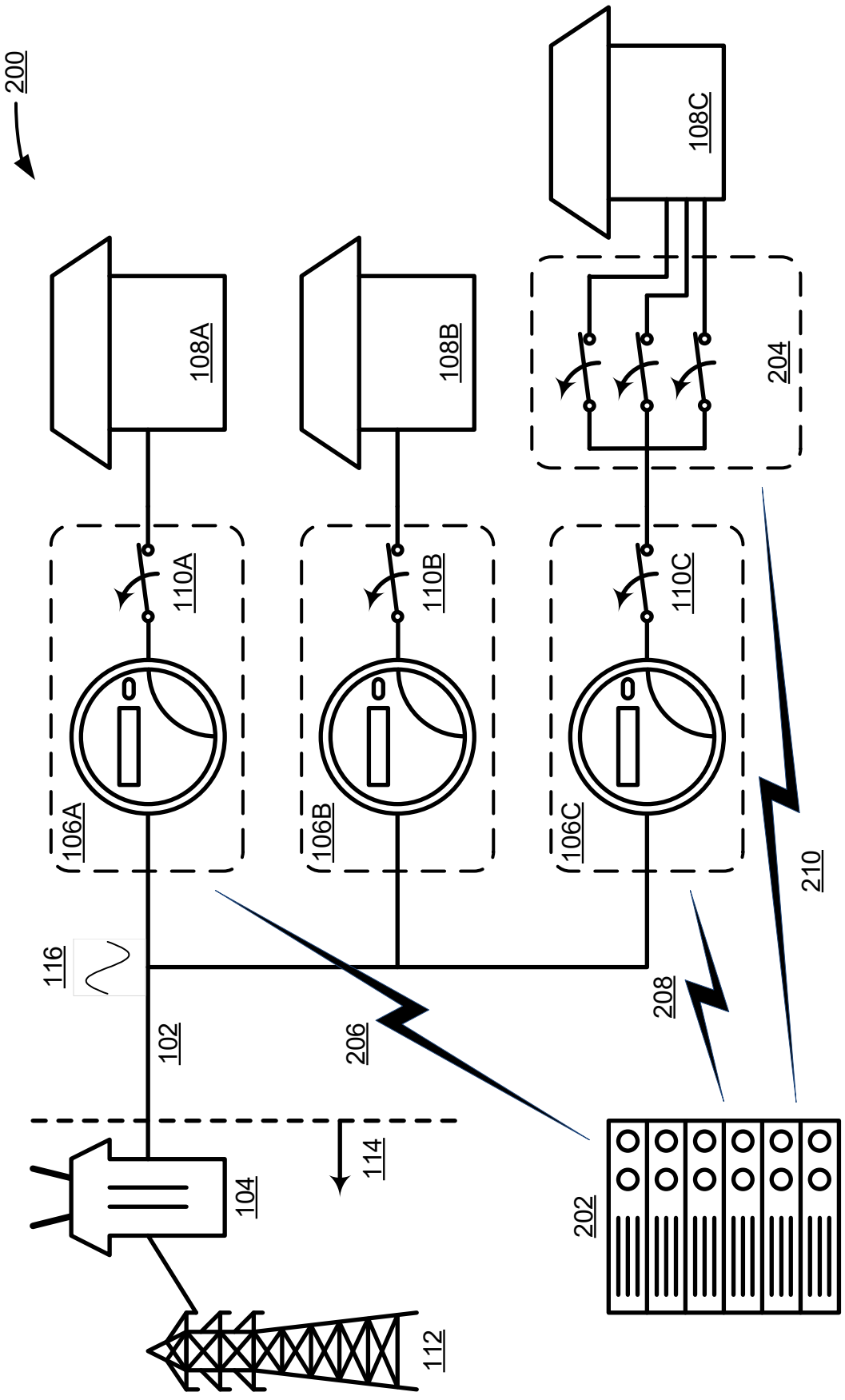

200
108A
108B
108C
204
110A
110B
110C
106A
106B
106C
116
102
206
208
210
114
104
112
202

FIG. 2

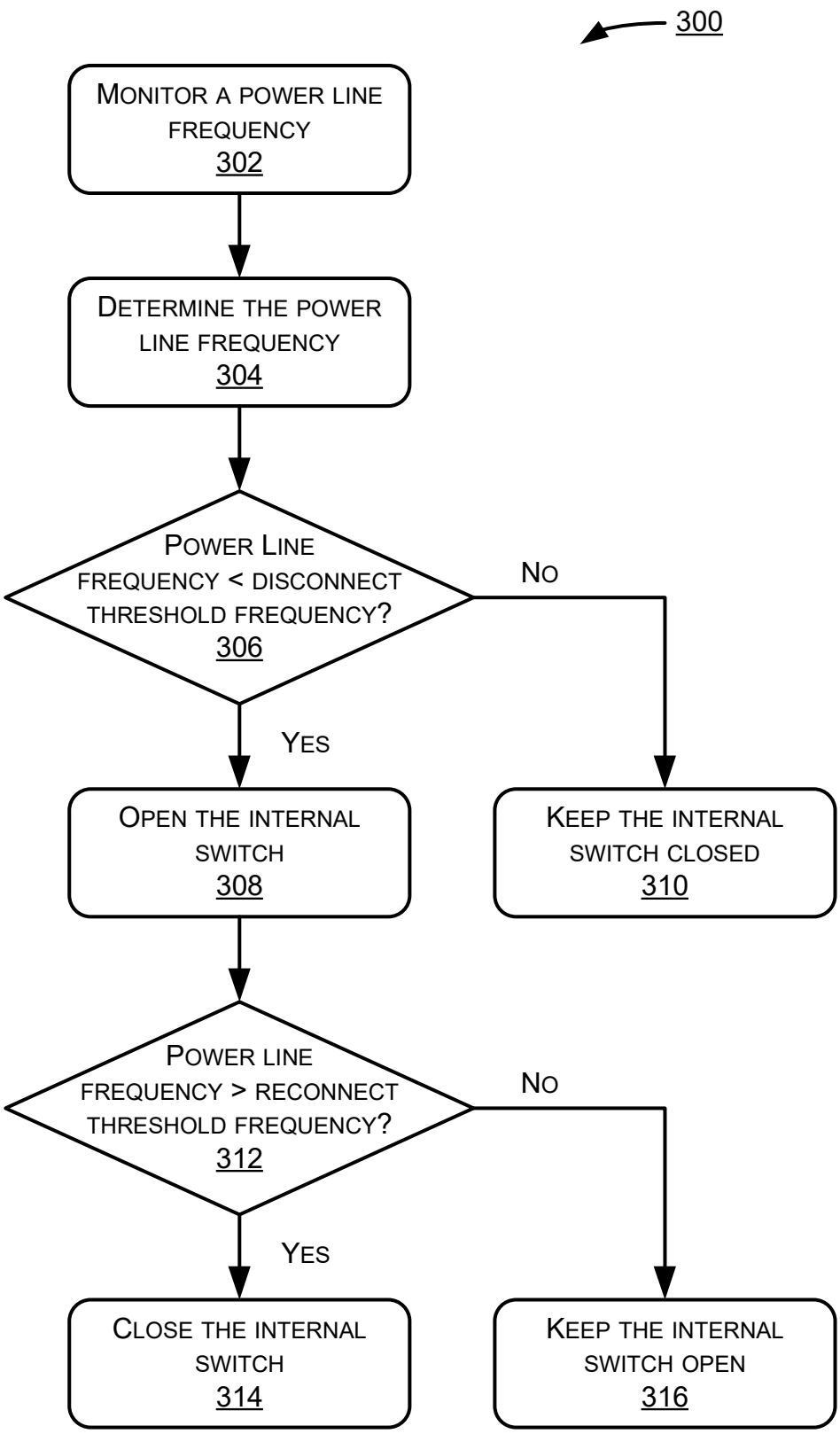

300
MONITOR A POWER LINE FREQUENCY
302
DETERMINE THE POWER LINE FREQUENCY
304
POWER LINE FREQUENCY < DISCONNECT THRESHOLD FREQUENCY?
306
NO
YES
OPEN THE INTERNAL SWITCH
308
KEEP THE INTERNAL SWITCH CLOSED
310
POWER LINE FREQUENCY > RECONNECT THRESHOLD FREQUENCY?
312
NO
YES
CLOSE THE INTERNAL SWITCH
314
KEEP THE INTERNAL SWITCH OPEN
316

FIG. 3

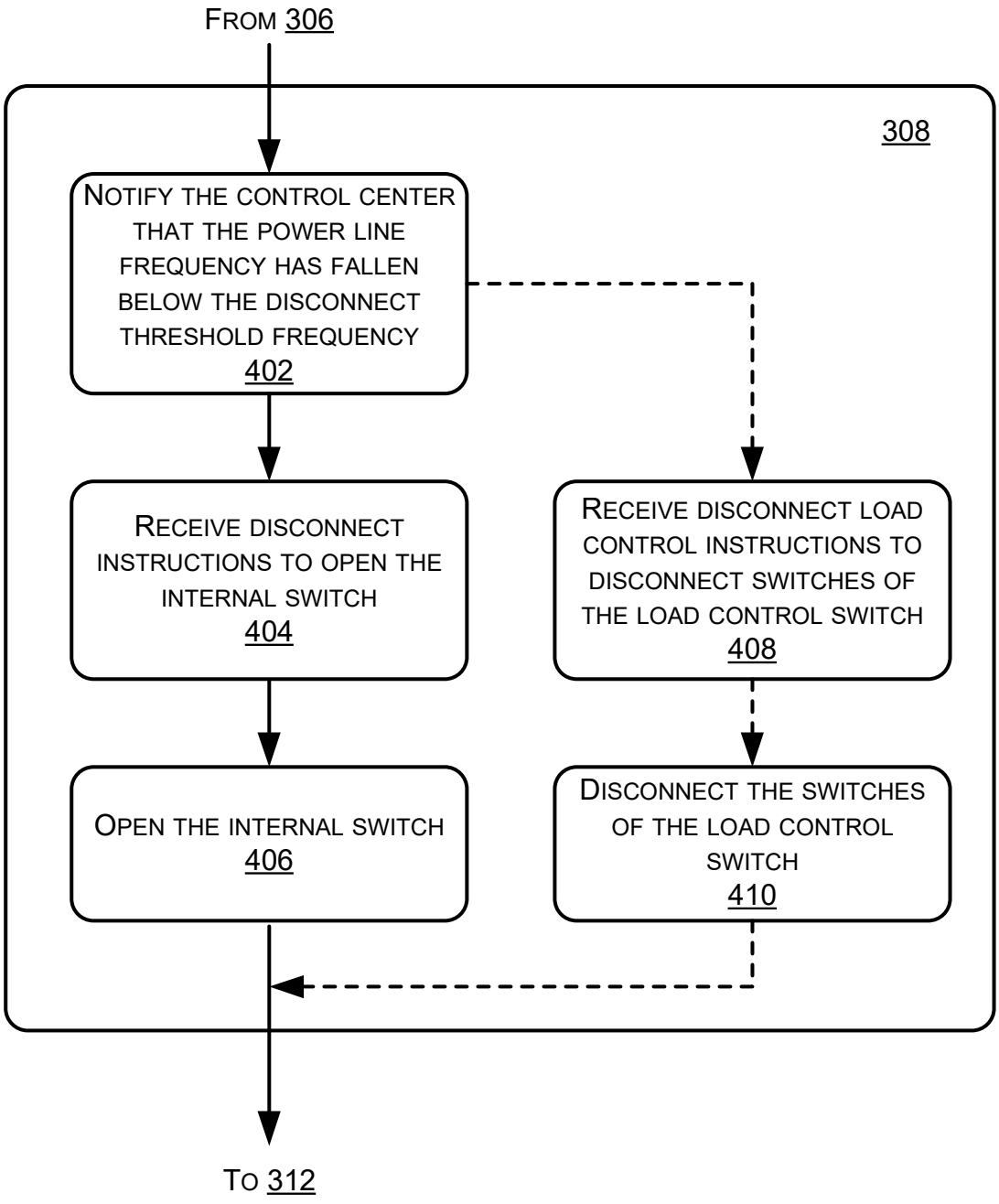

FROM 306
308
NOTIFY THE CONTROL CENTER THAT THE POWER LINE FREQUENCY HAS FALLEN BELOW THE DISCONNECT THRESHOLD FREQUENCY
402
RECEIVE DISCONNECT INSTRUCTIONS TO OPEN THE INTERNAL SWITCH
404
OPEN THE INTERNAL SWITCH
406
RECEIVE DISCONNECT LOAD CONTROL INSTRUCTIONS TO DISCONNECT SWITCHES OF THE LOAD CONTROL SWITCH
408
DISCONNECT THE SWITCHES OF THE LOAD CONTROL SWITCH
410
TO 312

FIG. 4

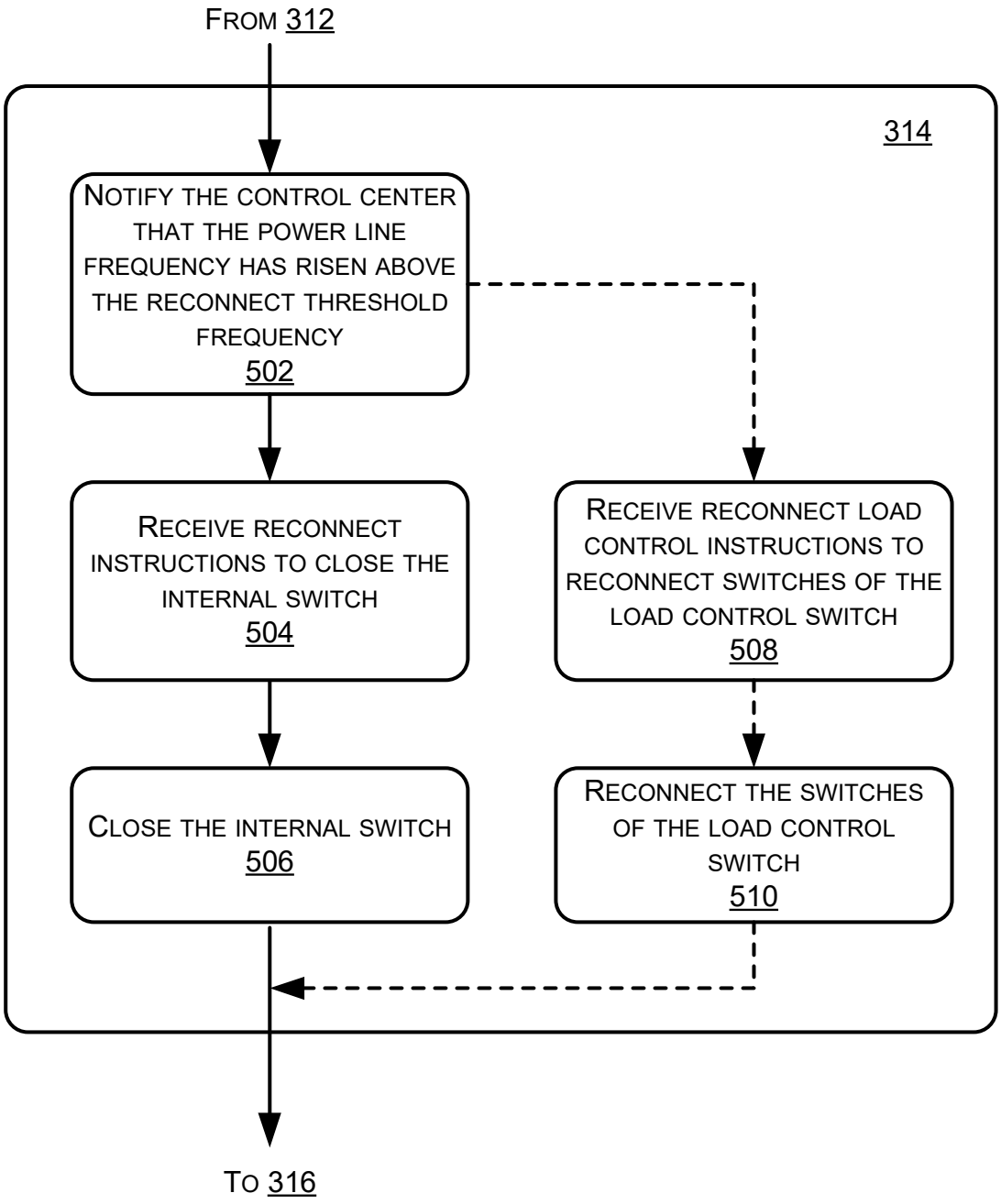

FROM 312
314
NOTIFY THE CONTROL CENTER THAT THE POWER LINE FREQUENCY HAS RISEN ABOVE THE RECONNECT THRESHOLD FREQUENCY
502
RECEIVE RECONNECT INSTRUCTIONS TO CLOSE THE INTERNAL SWITCH
504
CLOSE THE INTERNAL SWITCH
506
RECEIVE RECONNECT LOAD CONTROL INSTRUCTIONS TO RECONNECT SWITCHES OF THE LOAD CONTROL SWITCH
508
RECONNECT THE SWITCHES OF THE LOAD CONTROL SWITCH
510
TO 316

FIG. 5

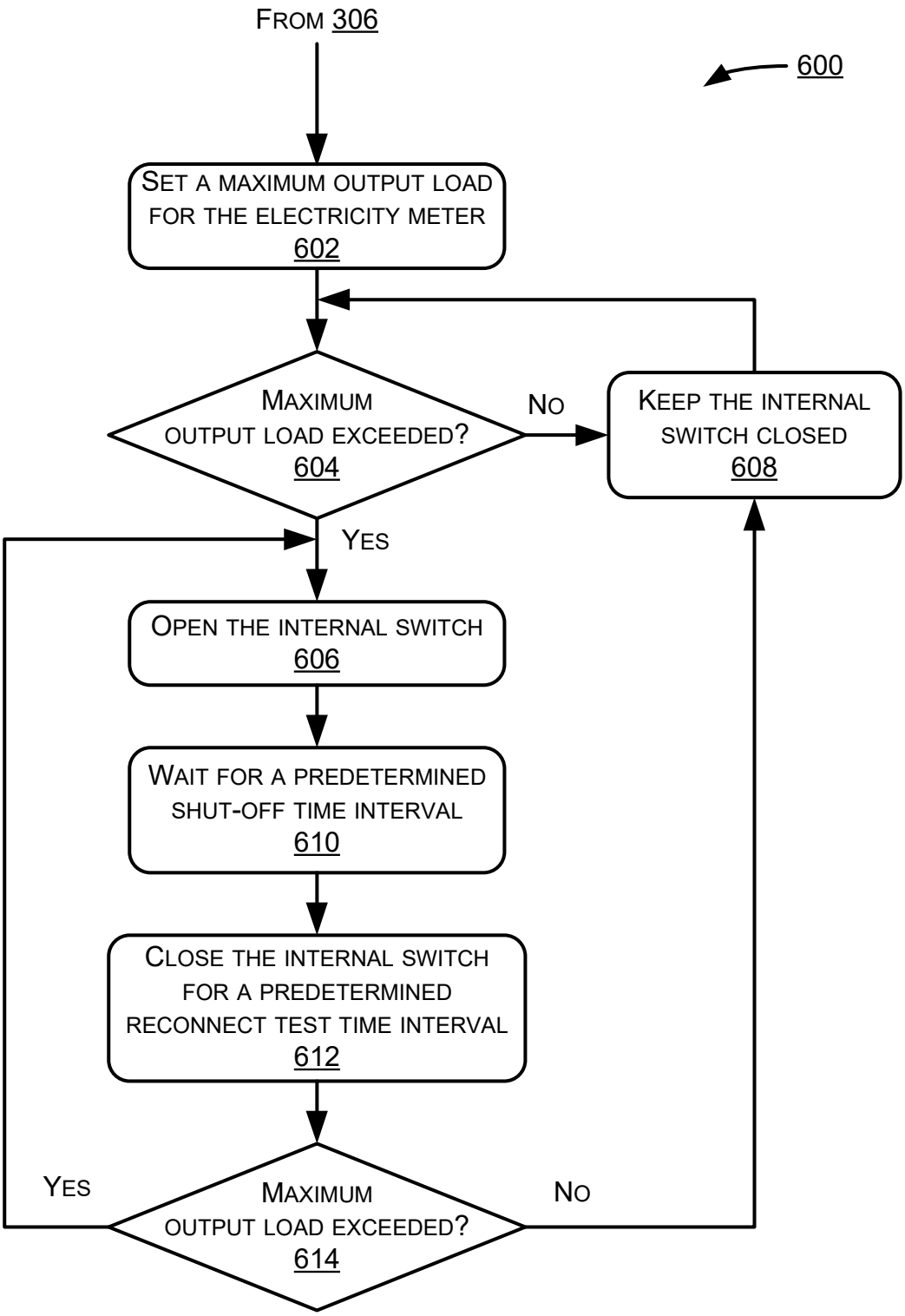

FROM 306
600
SET A MAXIMUM OUTPUT LOAD FOR THE ELECTRICITY METER
602
MAXIMUM OUTPUT LOAD EXCEEDED?
604
NO
KEEP THE INTERNAL SWITCH CLOSED
608
YES
OPEN THE INTERNAL SWITCH
606
WAIT FOR A PREDETERMINED SHUT-OFF TIME INTERVAL
610
CLOSE THE INTERNAL SWITCH FOR A PREDETERMINED RECONNECT TEST TIME INTERVAL
612
YES
MAXIMUM OUTPUT LOAD EXCEEDED?
614
NO

FIG. 6

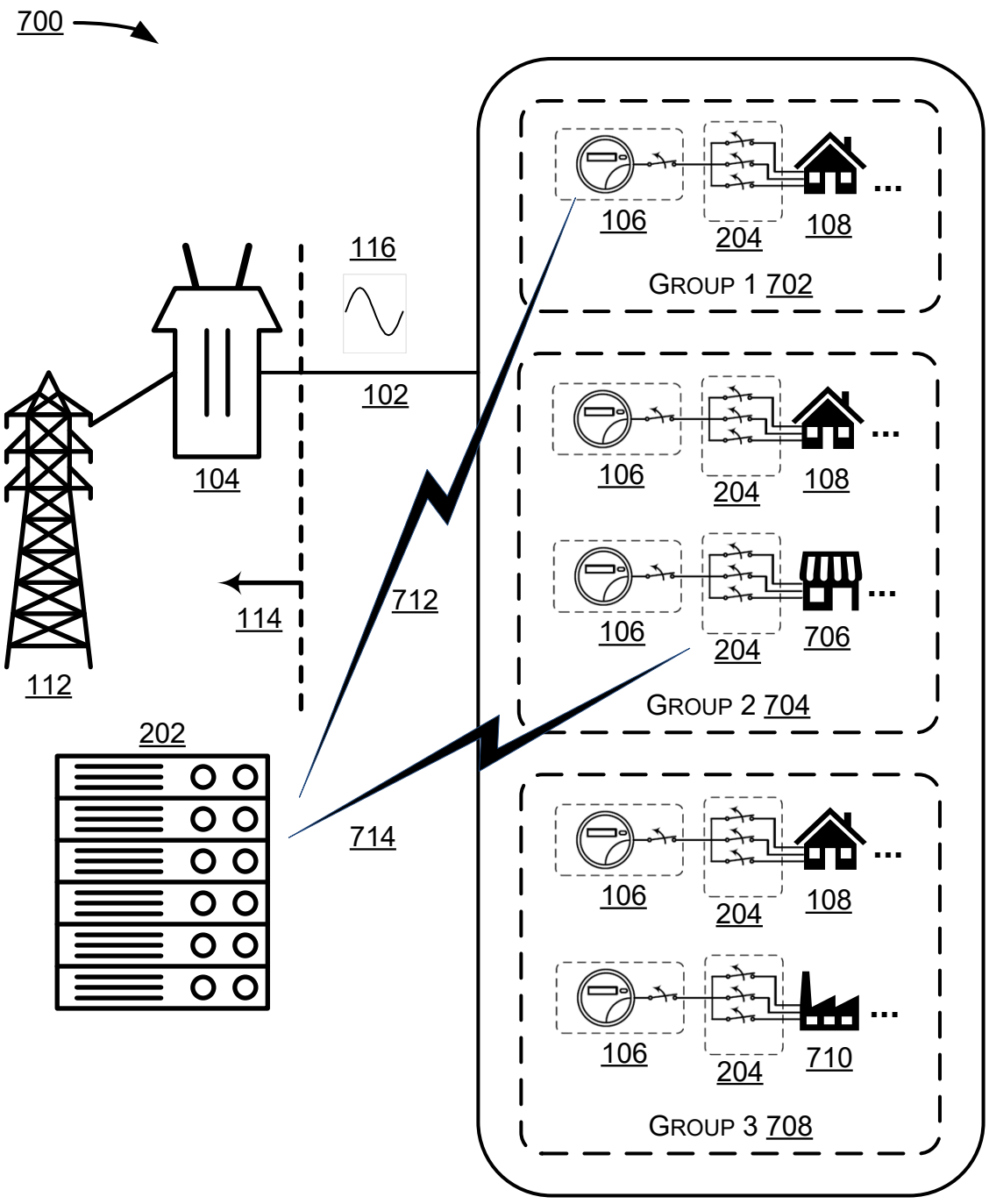

700
116
102
104
114
112
712
202
714
106
204
108
GROUP 1 702
106
204
108
106
204
706
GROUP 2 704
106
204
108
106
204
710
GROUP 3 708

FIG. 7

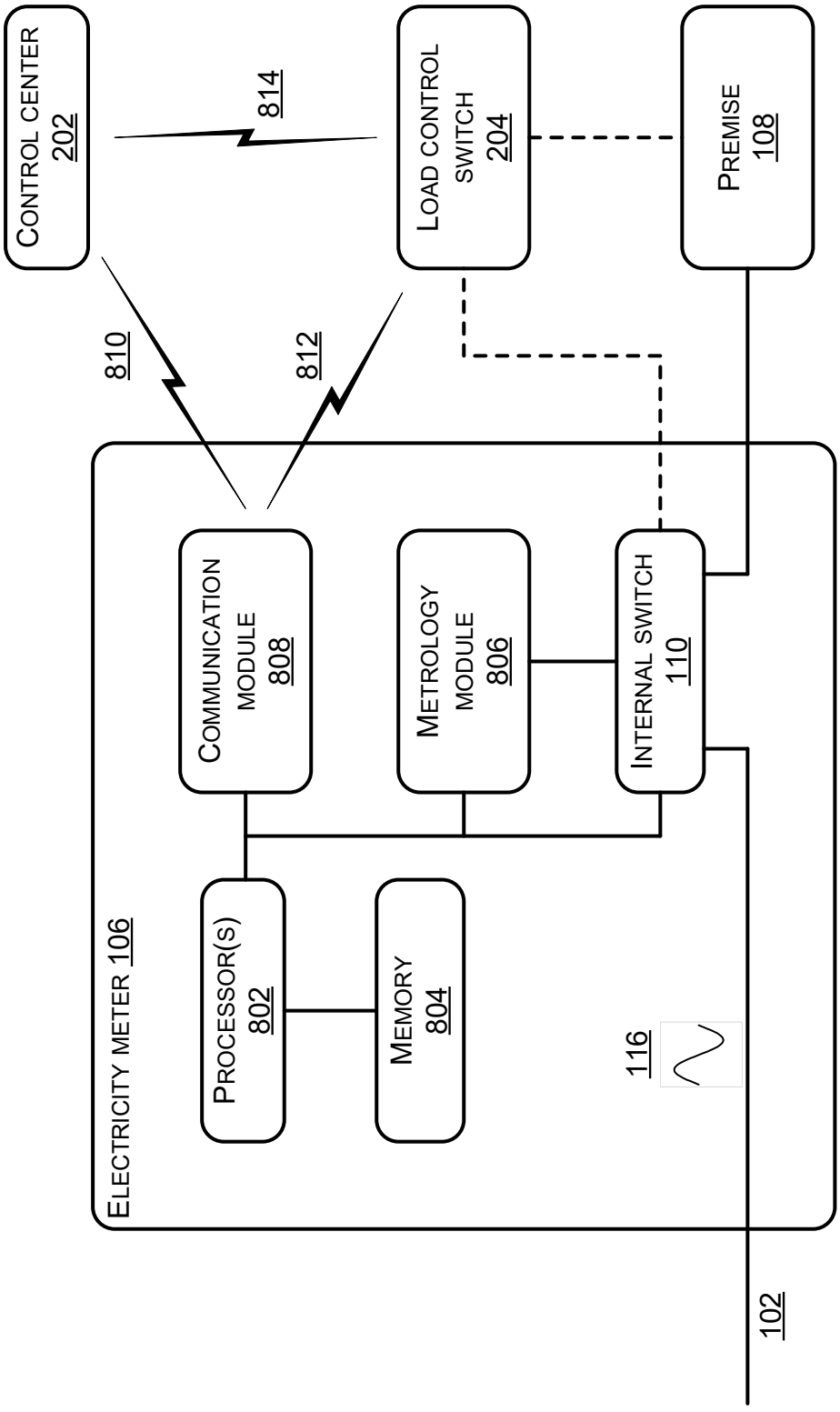

CONTROL CENTER 202
814
LOAD CONTROL SWITCH 204
PREMISE 108
810
812
ELECTRICITY METER 106
COMMUNICATION MODULE 808
METROLOGY MODULE 806
INTERNAL SWITCH 110
PROCESSOR(S) 802
MEMORY 804
116
102

FIG. 8