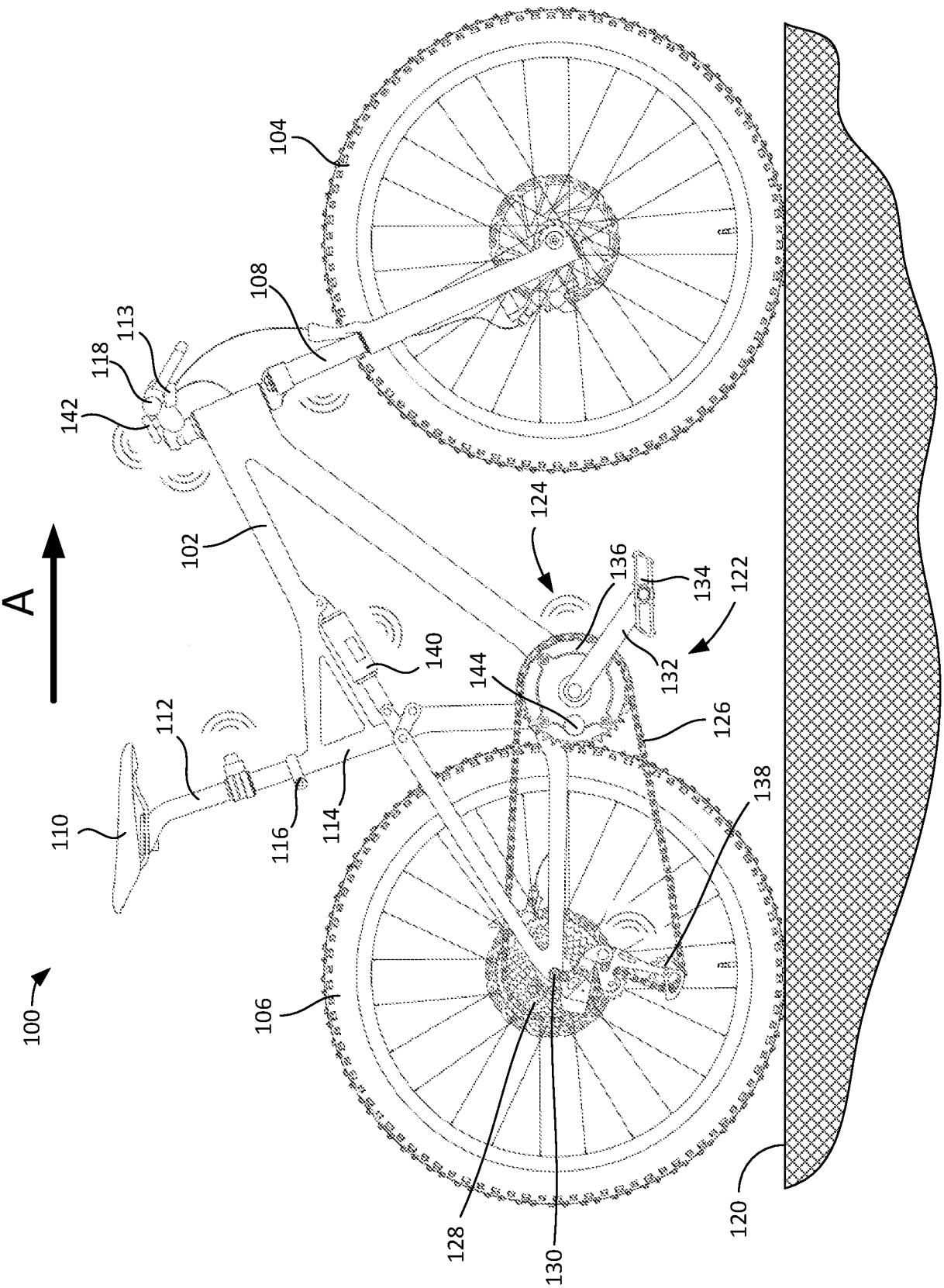

A
100
102
104
106
108
110
112
113
114
116
118
120
122
124
126
128
130
132
134
136
138
140
142
144

FIG. 1

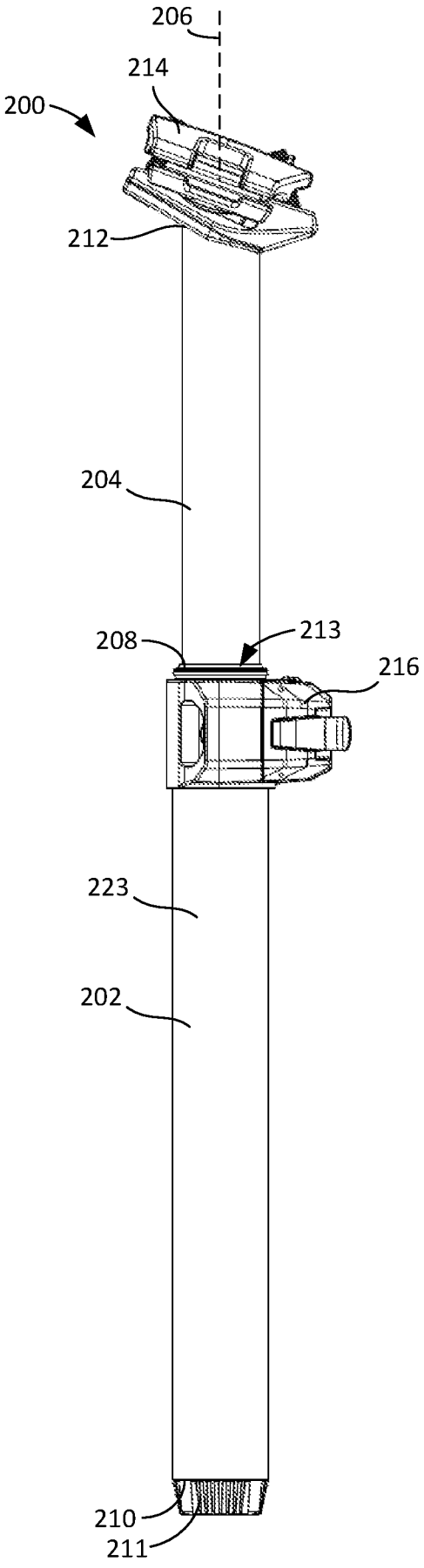


FIG. 2

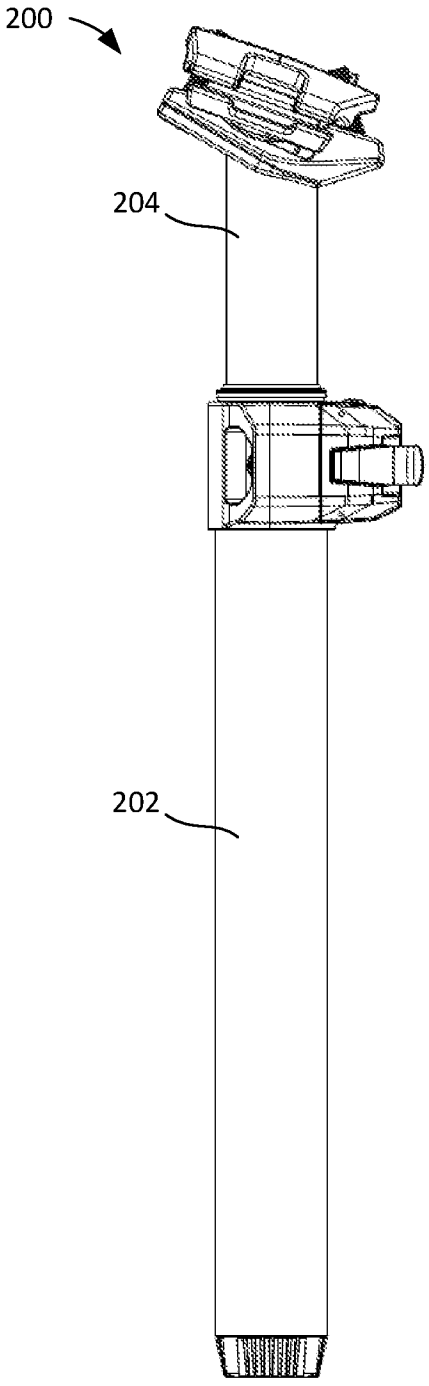


FIG. 3

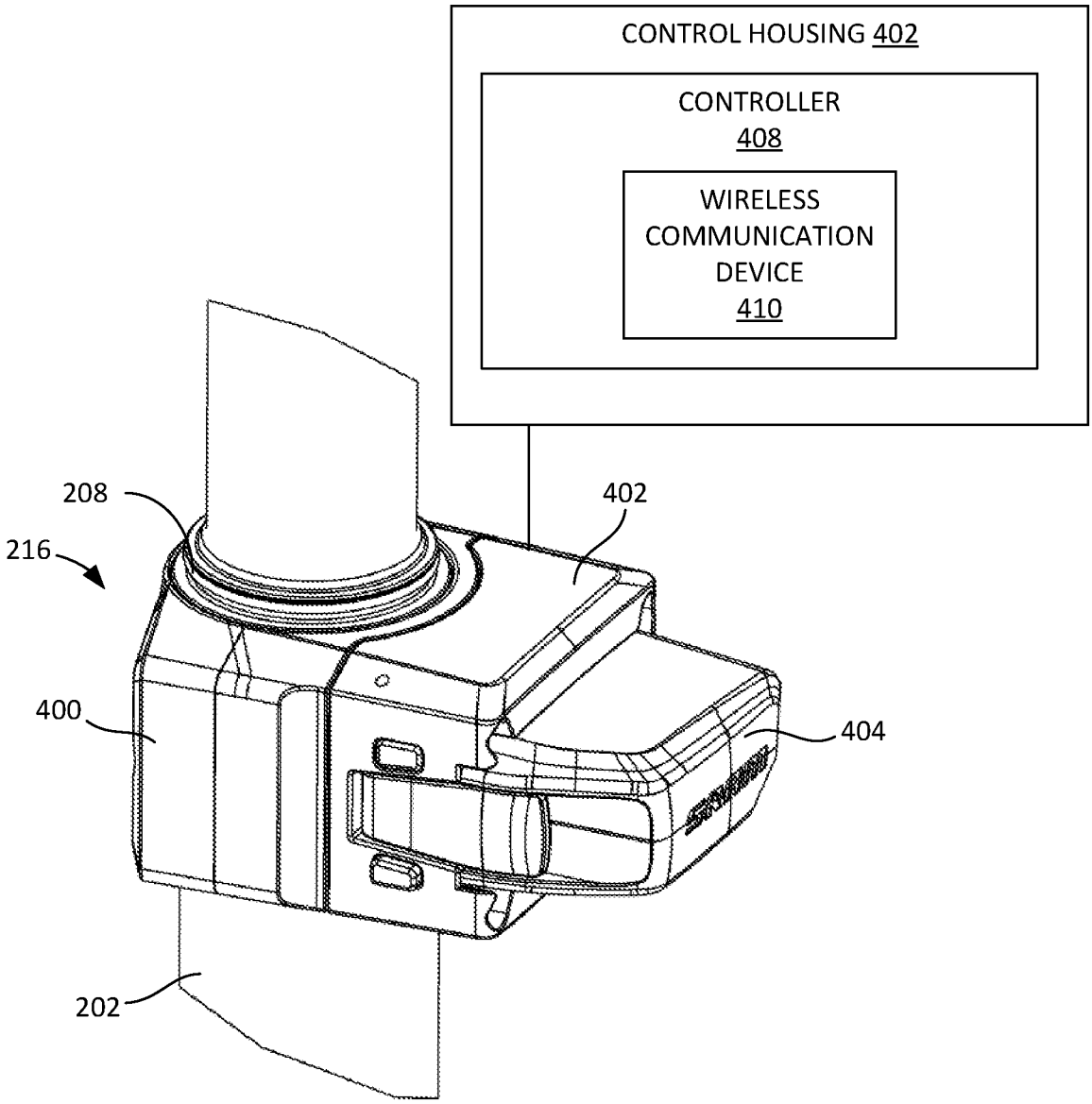

CONTROL HOUSING 402
CONTROLLER
408
WIRELESS
COMMUNICATION
DEVICE
410
208
216
402
400
404
202

FIG. 4

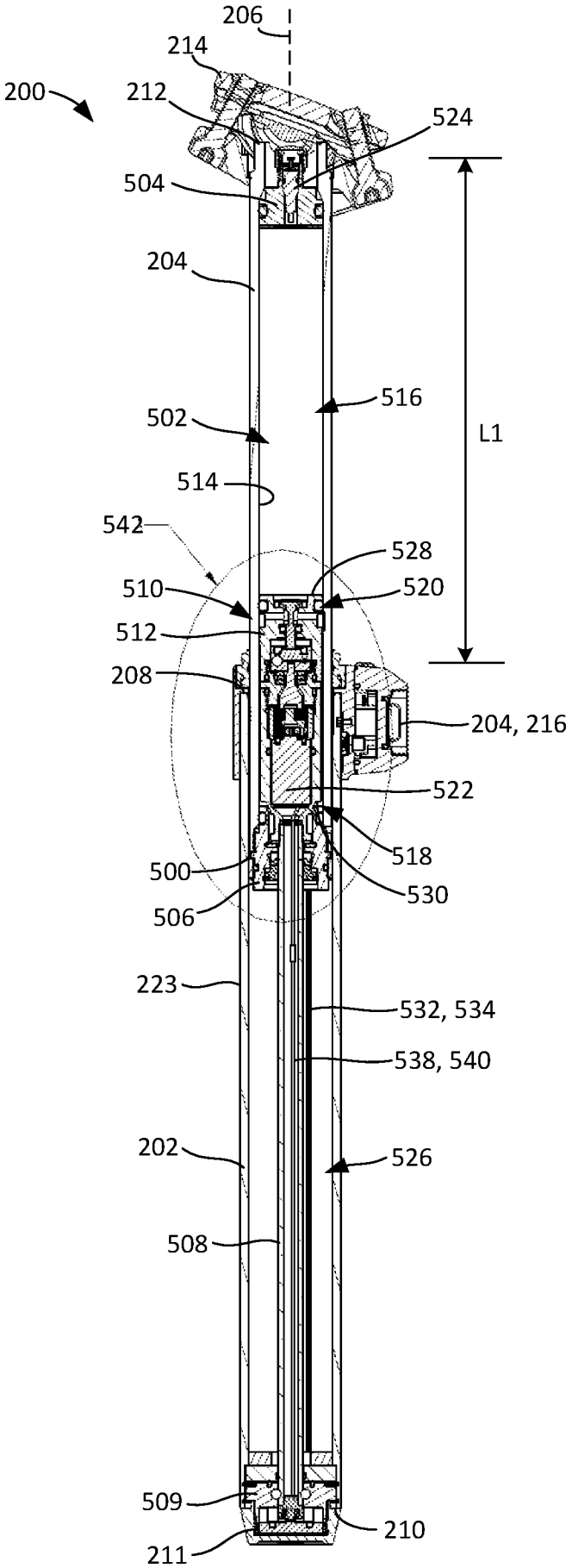

206
214
200
212
524
504
204
516
502
L1
514
542
528
510
520
512
208
204, 216
522
518
500
530
506
223
532, 534
538, 540
202
526
508
509
210
211

FIG. 5

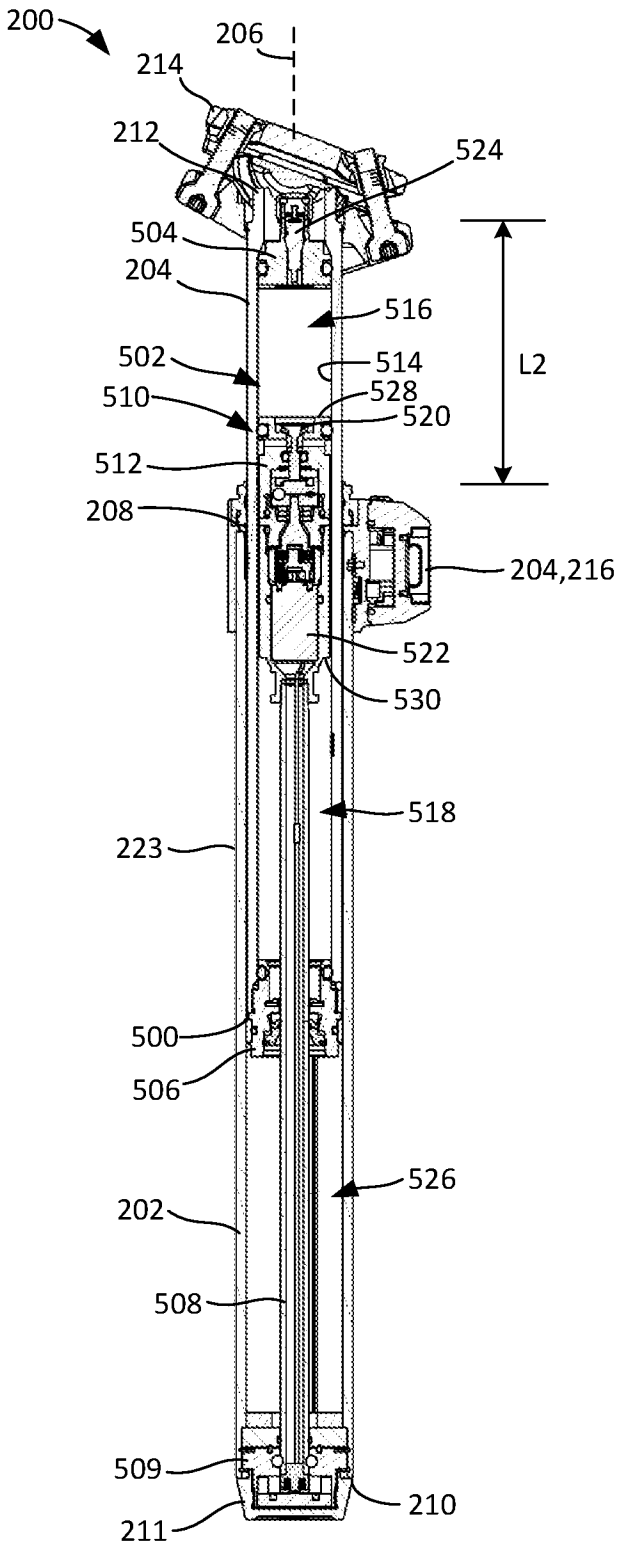

200
206
214
212
524
504
204
516
L2
502
514
528
510
520
512
208
204,216
522
530
518
223
500
506
526
202
508
509
210
211

FIG. 6

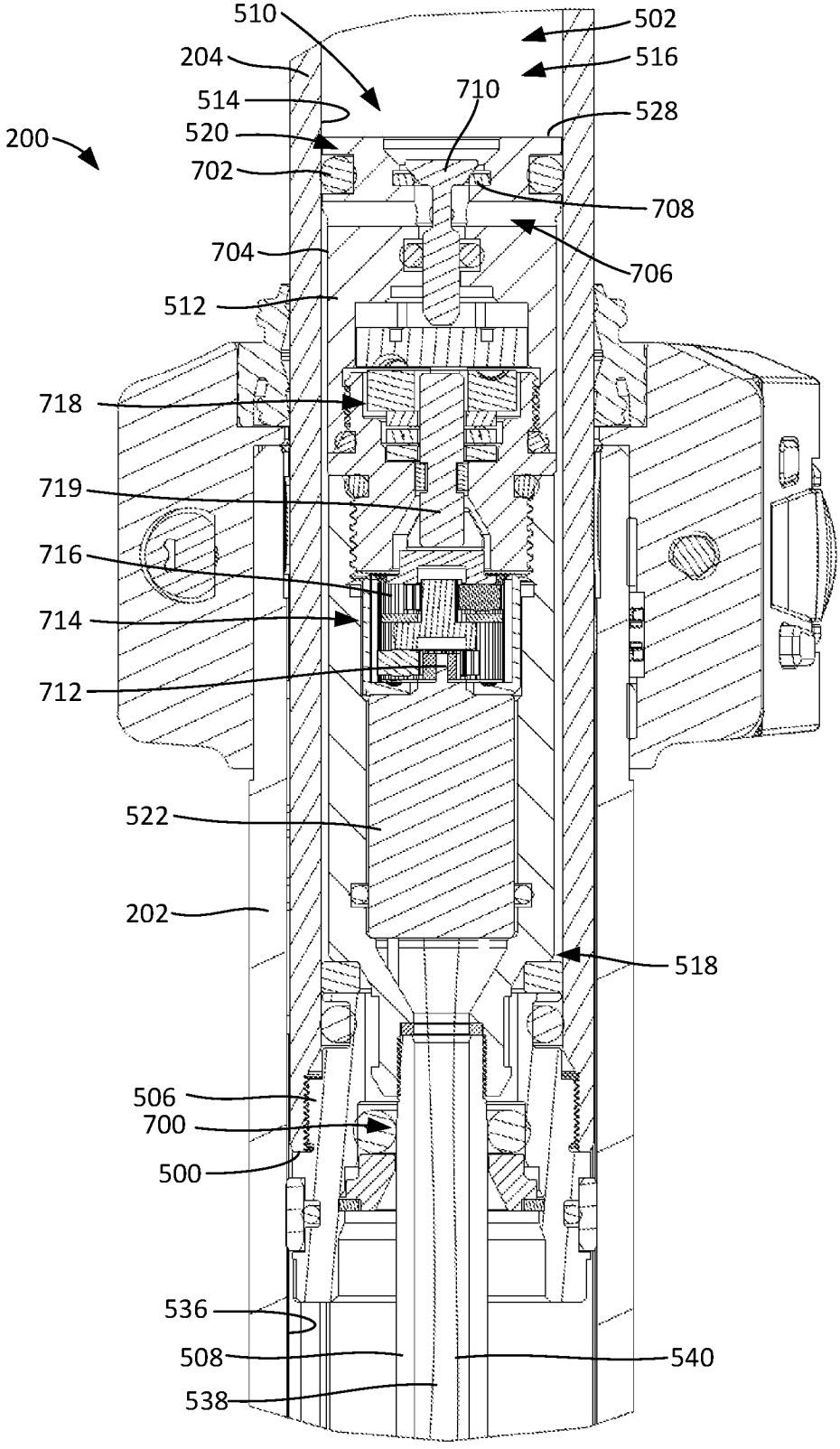

510
502
204
516
514
710
528
200
520
702
708
704
706
512
718
719
716
714
712
522
202
518
506
700
500
536
508
540
538

FIG. 7

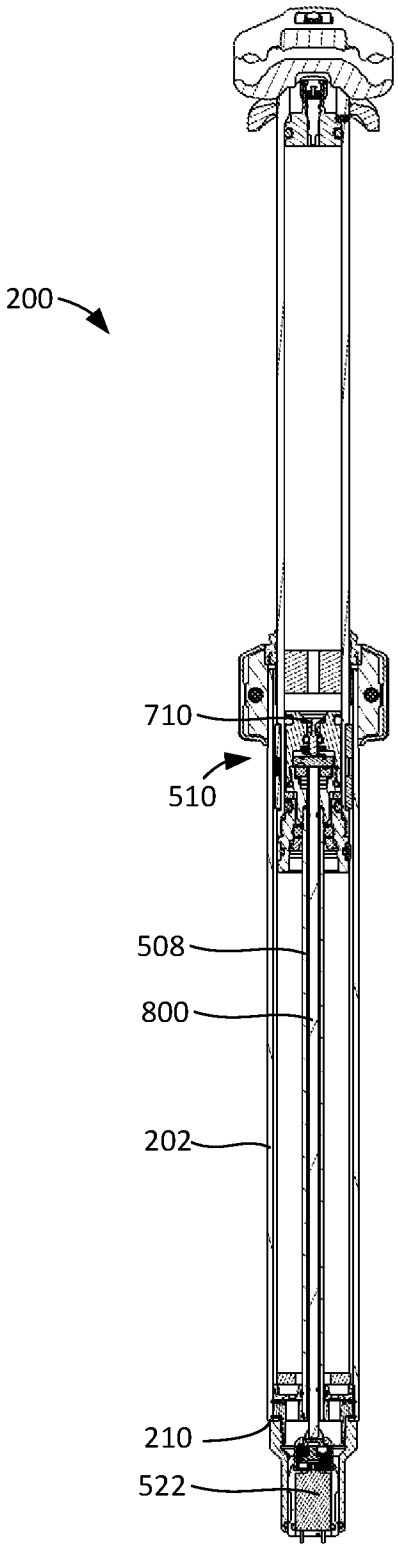


FIG. 8

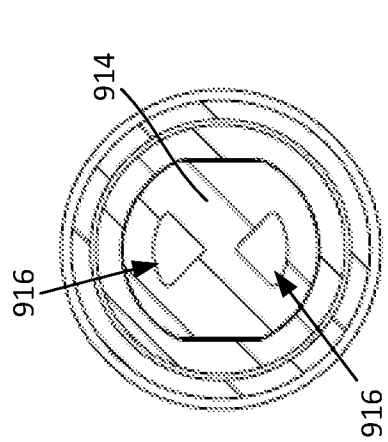


FIG. 11

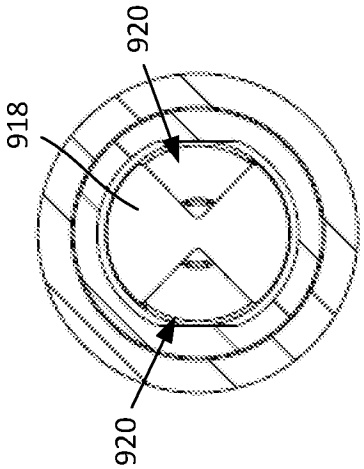


FIG. 12

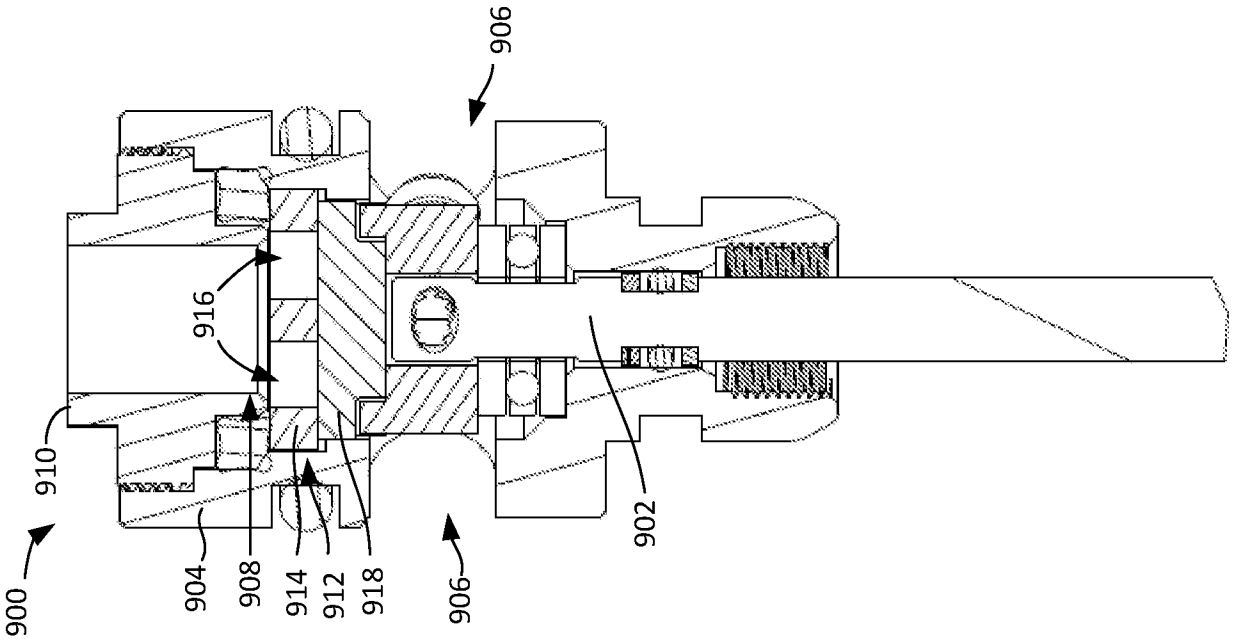


FIG. 10

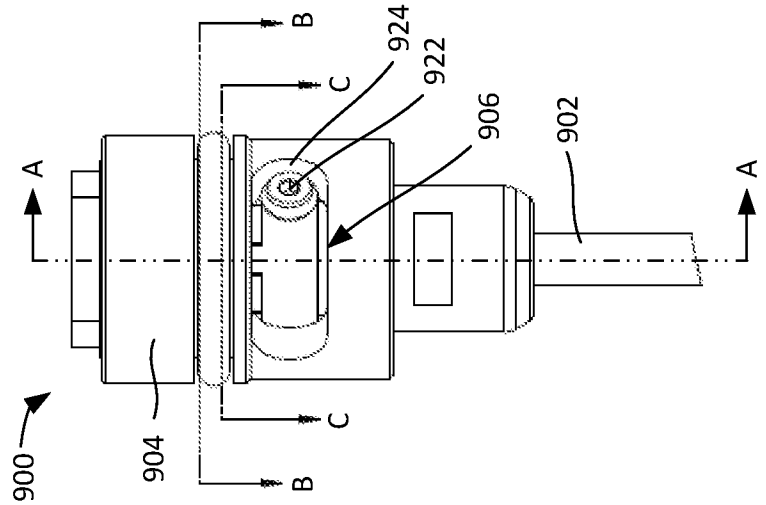


FIG. 9

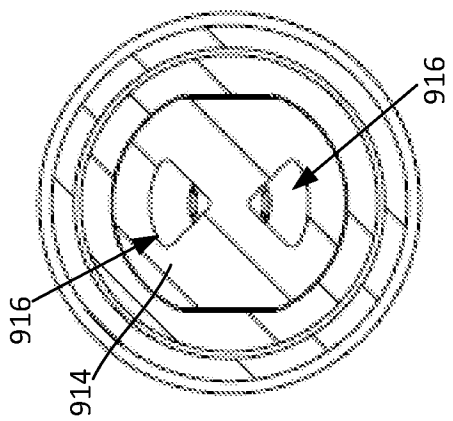


FIG. 15

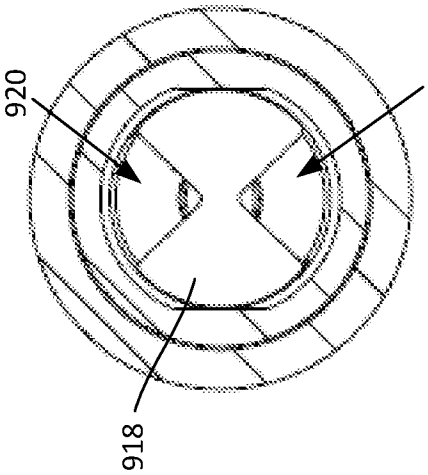


FIG. 16

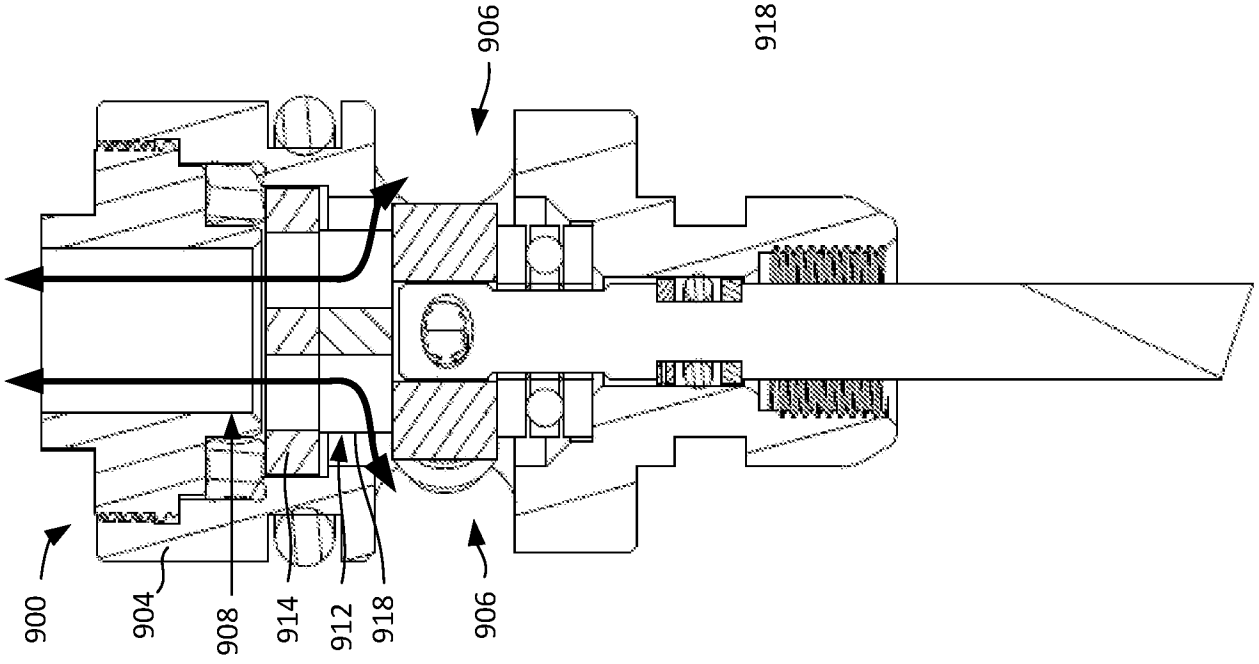


FIG. 14

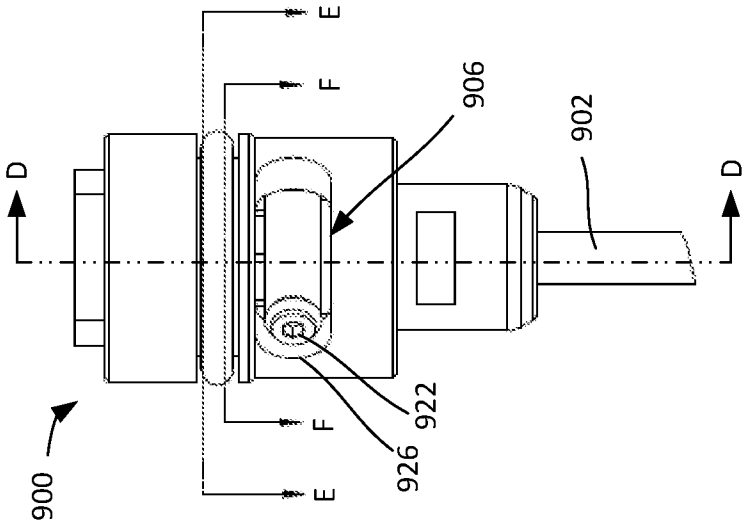


FIG. 13

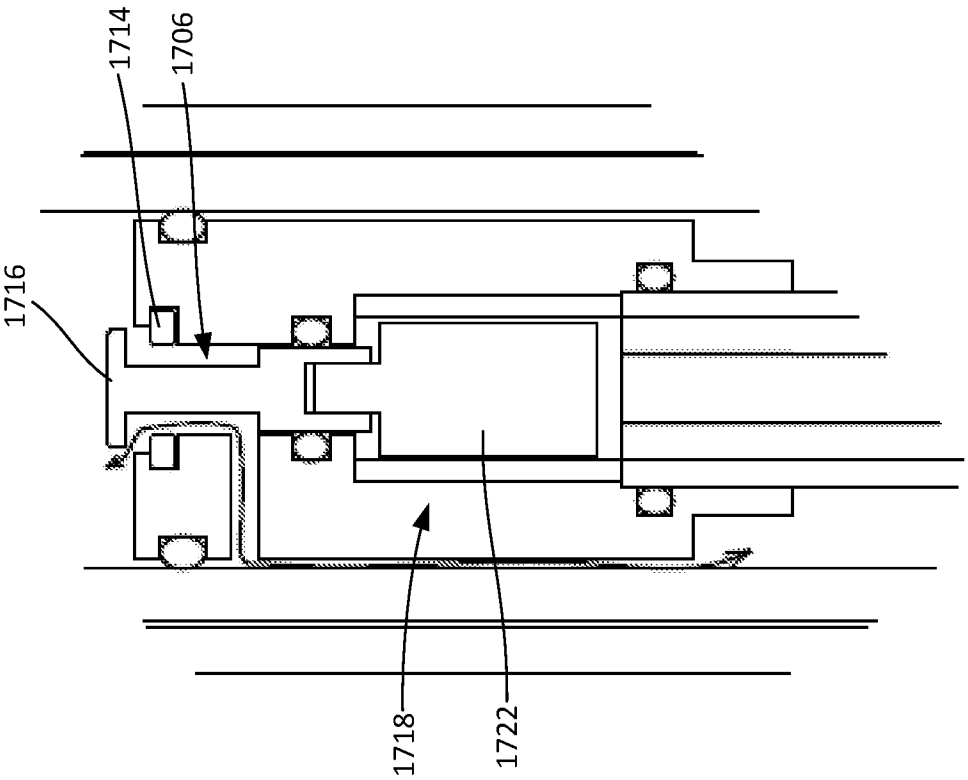

1714
1706
1716
1718
1722

FIG. 18

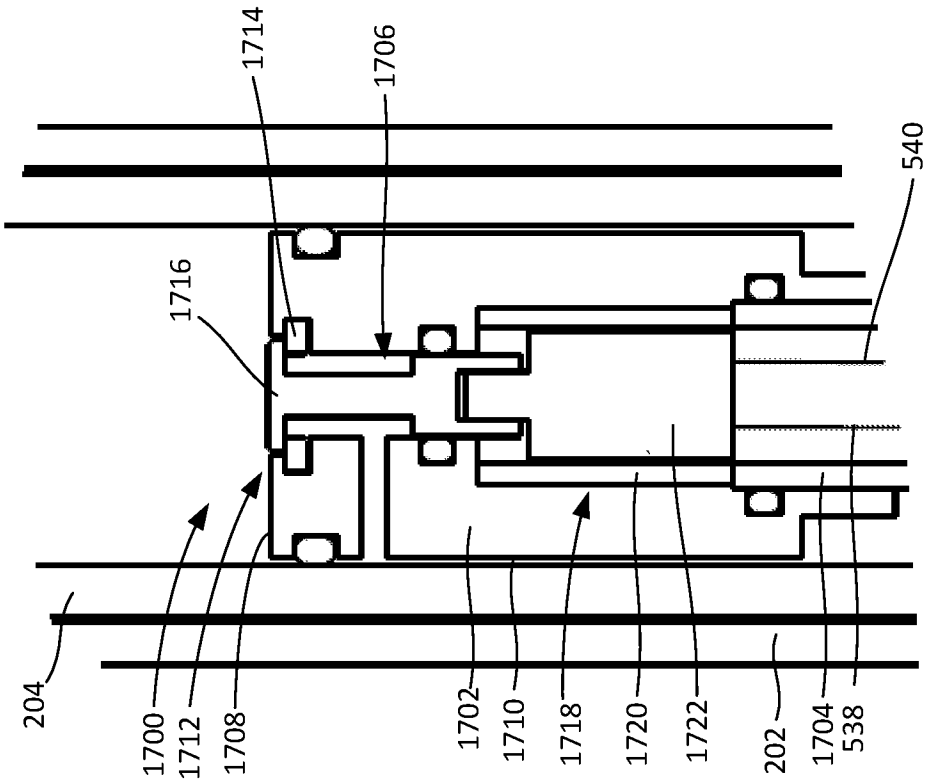

1714
1706
540
1716
204
1700
1712
1708
1702
1710
1718
1720
1722
202
1704
538

FIG. 17

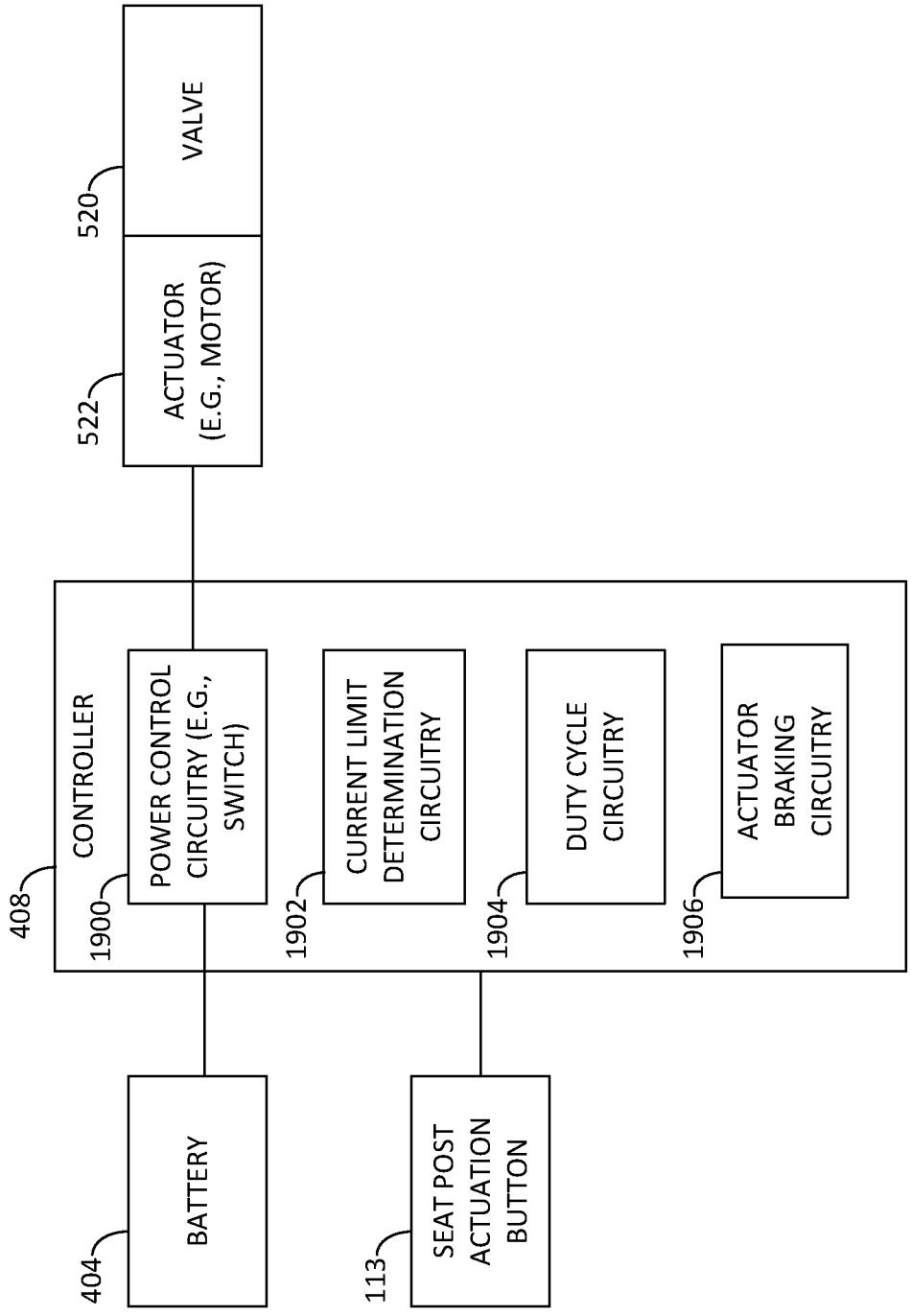

VALVE
520
ACTUATOR (E.G., MOTOR)
522
CONTROLLER
408
POWER CONTROL CIRCUITRY (E.G., SWITCH)
1900
CURRENT LIMIT DETERMINATION CIRCUITRY
1902
DUTY CYCLE CIRCUITRY
1904
ACTUATOR BRAKING CIRCUITRY
1906
BATTERY
404
SEAT POST ACTUATION BUTTON
113

FIG. 19

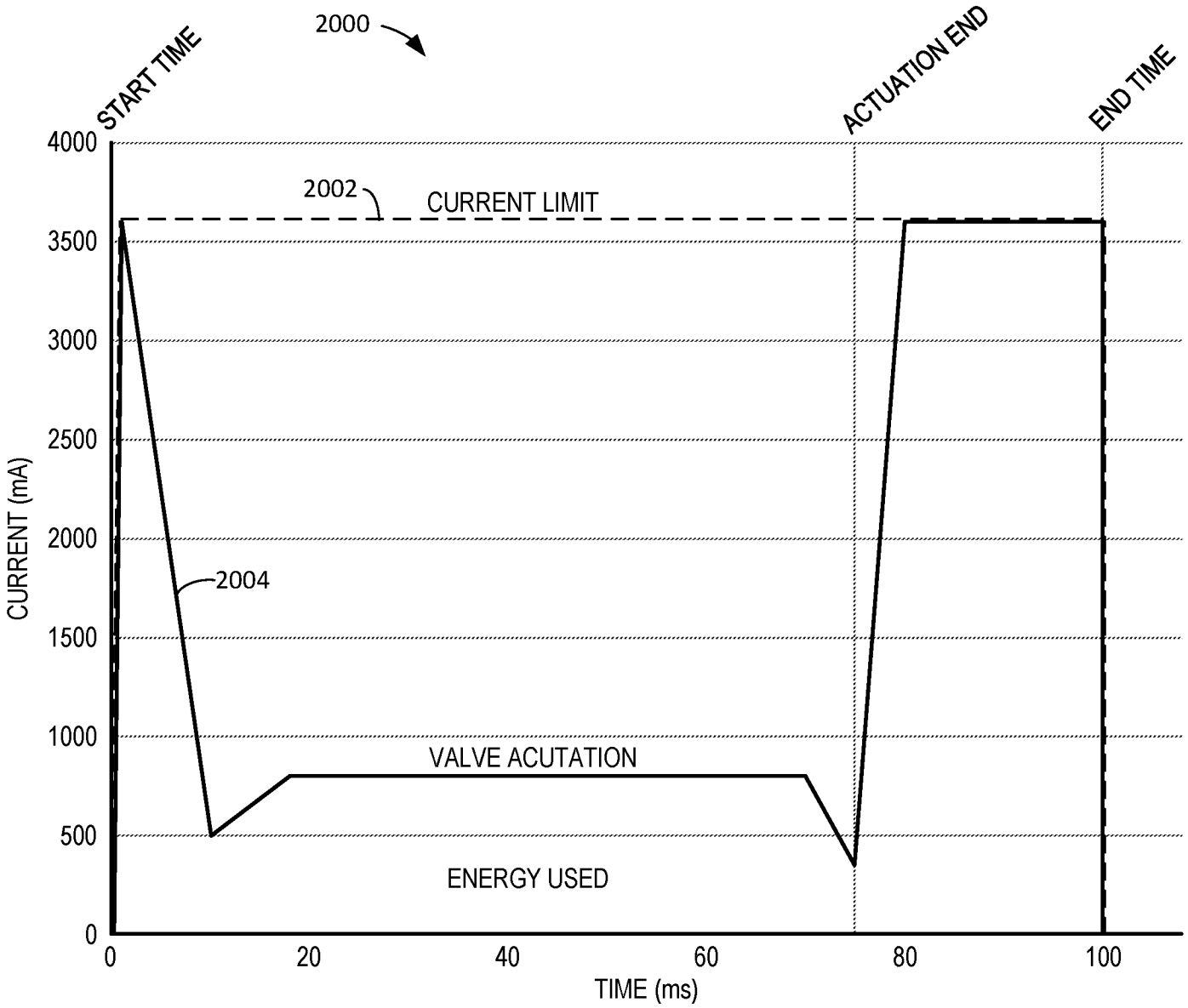

2000
START TIME
ACTUATION END
END TIME
4000
3500
3000
2500
2000
1500
1000
500
0
2002
CURRENT LIMIT
2004
VALVE ACUTATION
ENERGY USED
CURRENT (mA)
0
20
40
60
80
100
TIME (ms)

FIG. 20

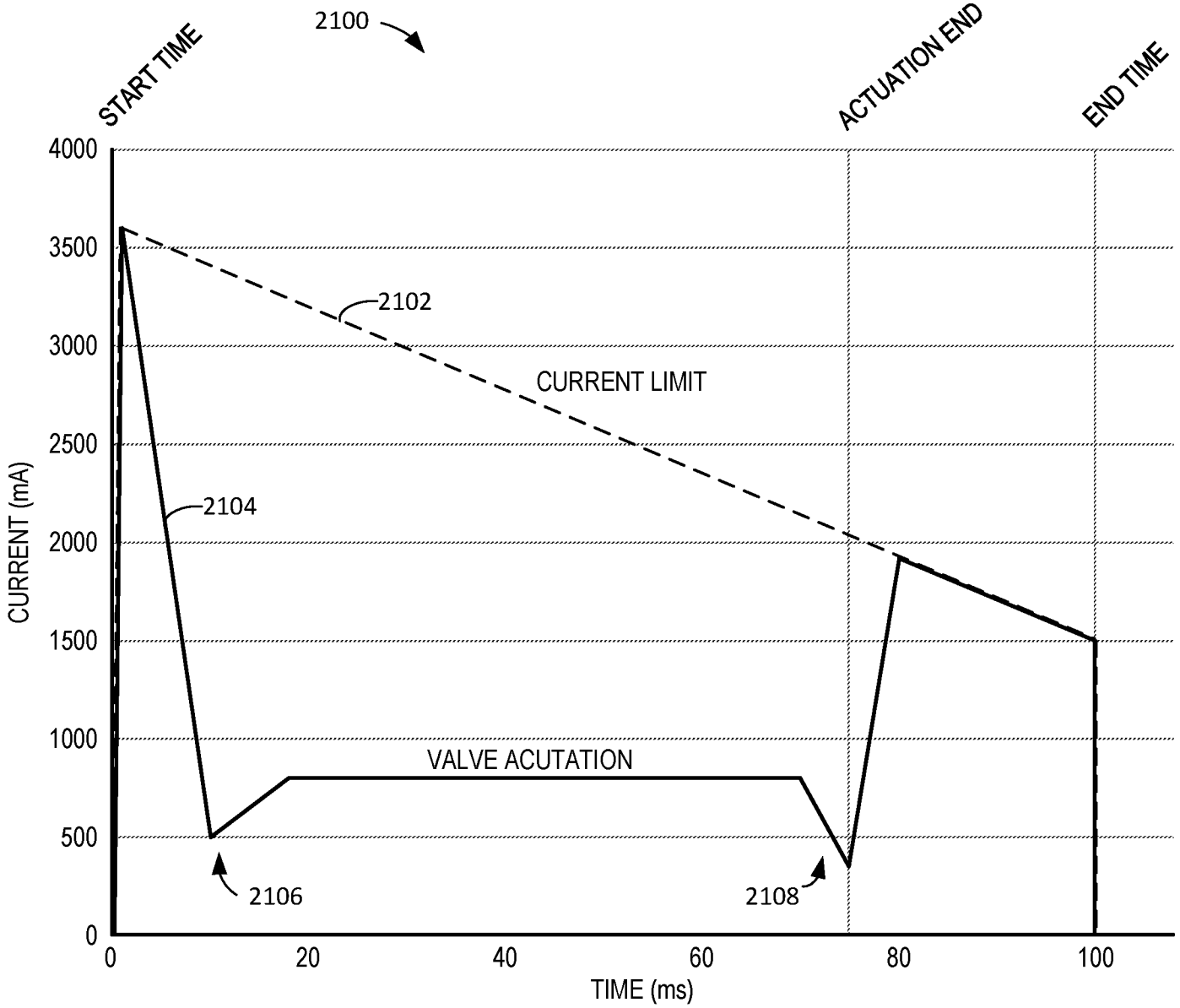

2100
START TIME
ACTUATION END
END TIME
4000
3500
3000
2500
2000
1500
1000
500
0
CURRENT (mA)
2102
CURRENT LIMIT
2104
VALVE ACUTATION
2106
2108
0
20
40
60
80
100
TIME (ms)

FIG. 21

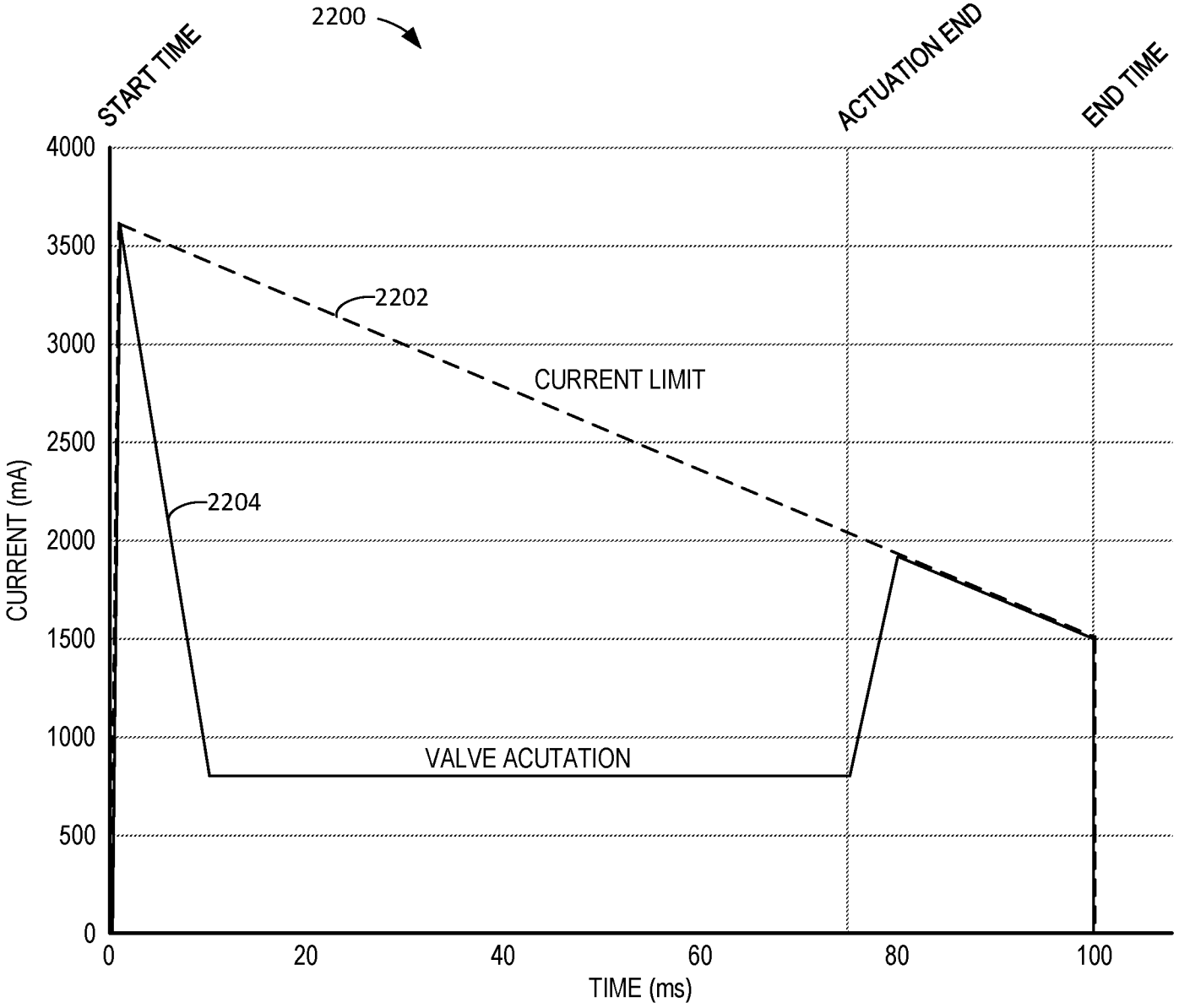

2200
START TIME
ACTUATION END
END TIME
4000
3500
3000
2500
2000
1500
1000
500
0
2202
CURRENT LIMIT
2204
VALVE ACUTATION
CURRENT (mA)
0
20
40
60
80
100
TIME (ms)

FIG. 22

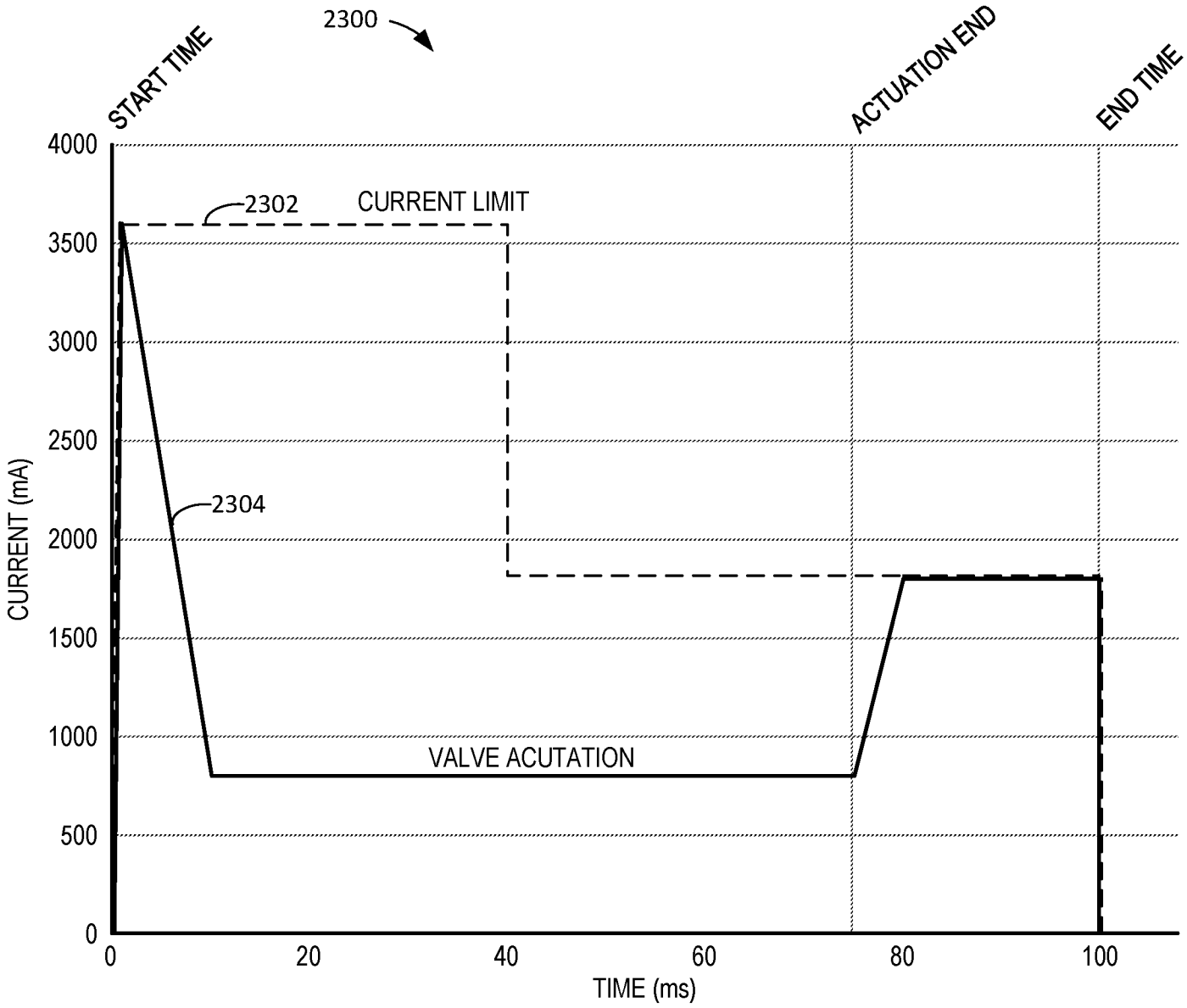

2300
START TIME
ACTUATION END
END TIME
4000
3500
3000
2500
2000
1500
1000
500
0
2302
CURRENT LIMIT
2304
VALVE ACUTATION
CURRENT (mA)
0
20
40
60
80
100
TIME (ms)

FIG. 23

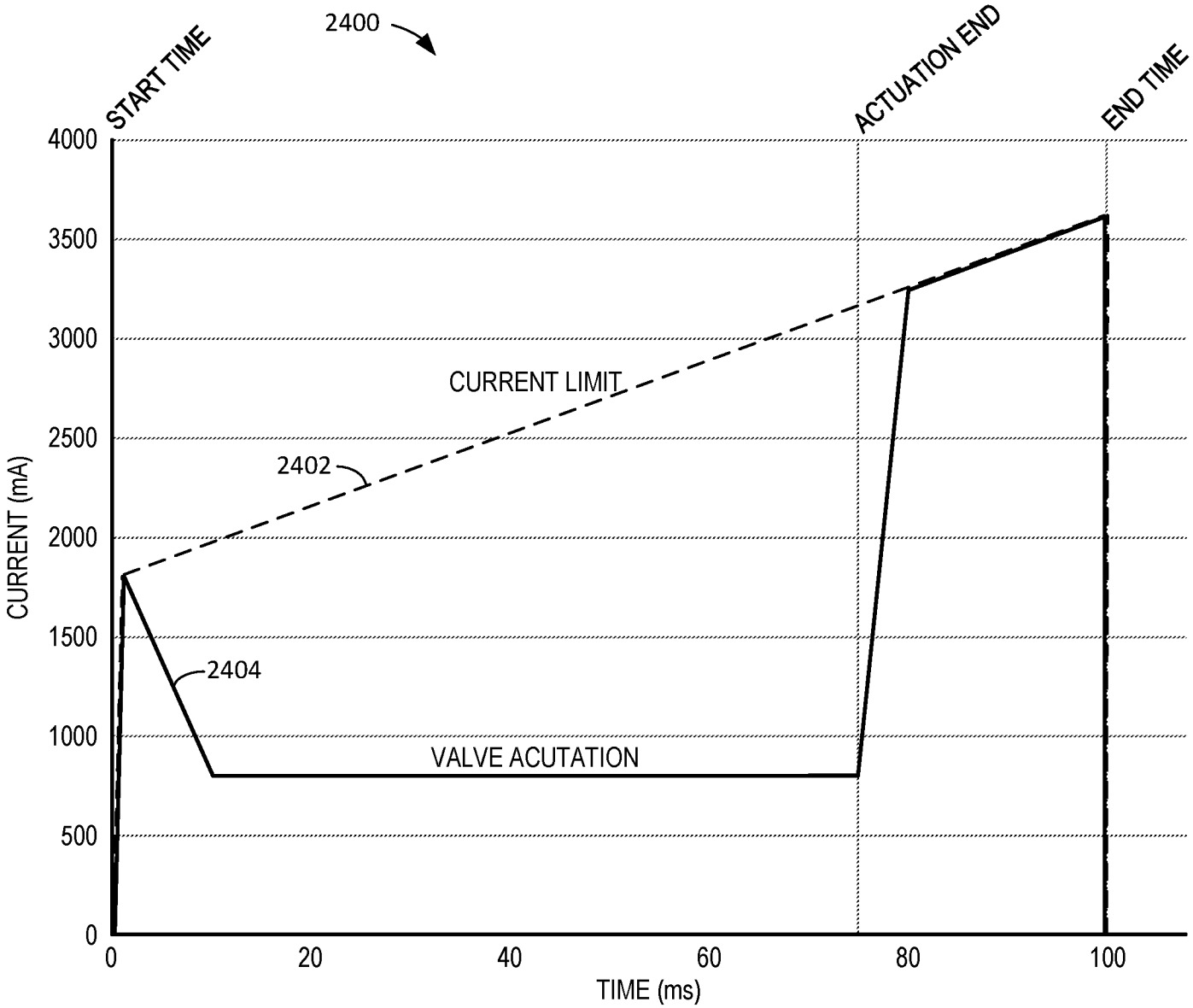

2400
START TIME
ACTUATION END
END TIME
4000
3500
3000
2500
2000
1500
1000
500
0
CURRENT (mA)
CURRENT LIMIT
2402
2404
VALVE ACUTATION
0
20
40
60
80
100
TIME (ms)

FIG. 24

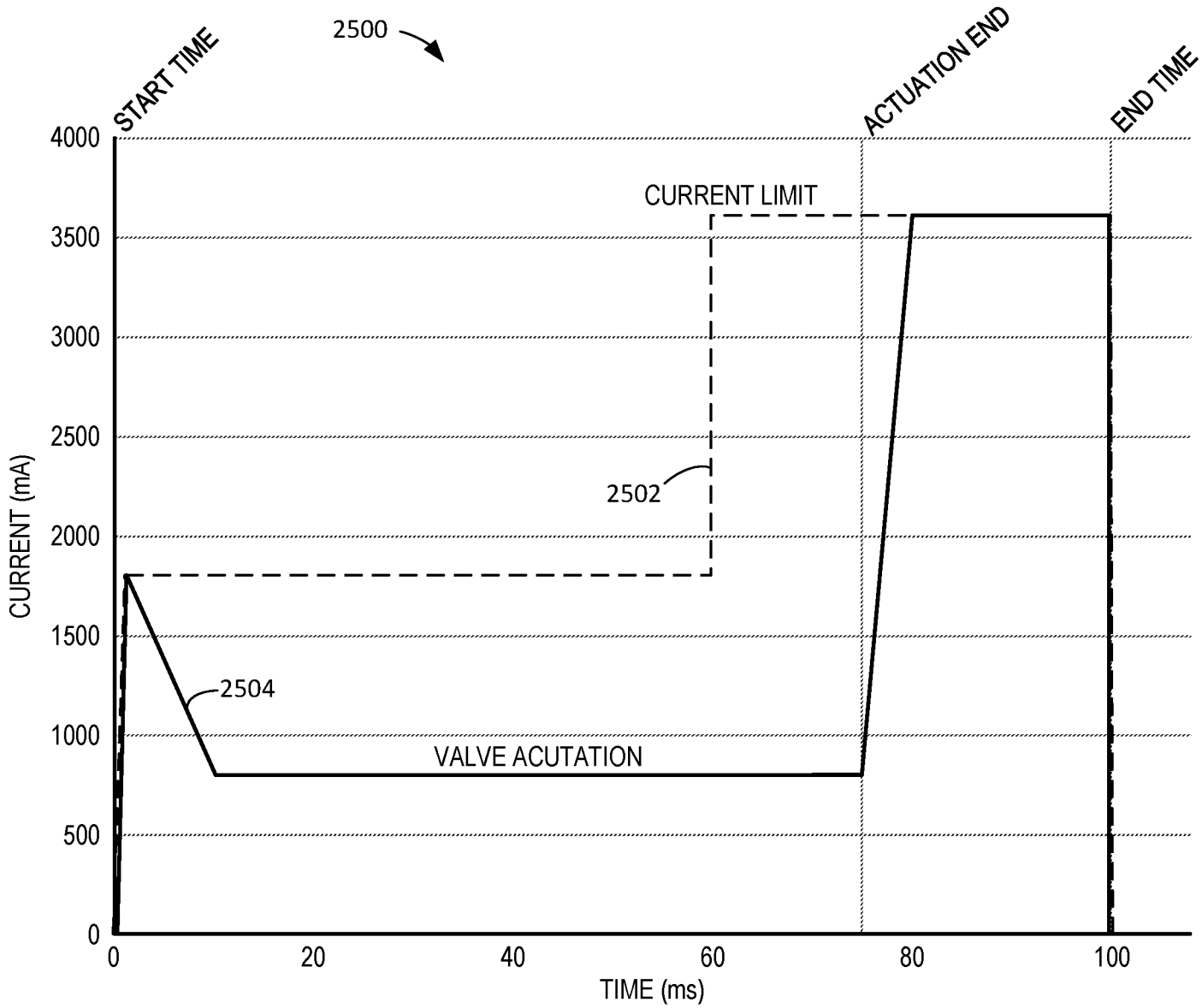

2500
START TIME
ACTUATION END
END TIME
CURRENT LIMIT
2502
2504
VALVE ACUTATION
CURRENT (mA)
TIME (ms)
4000
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100

FIG. 25

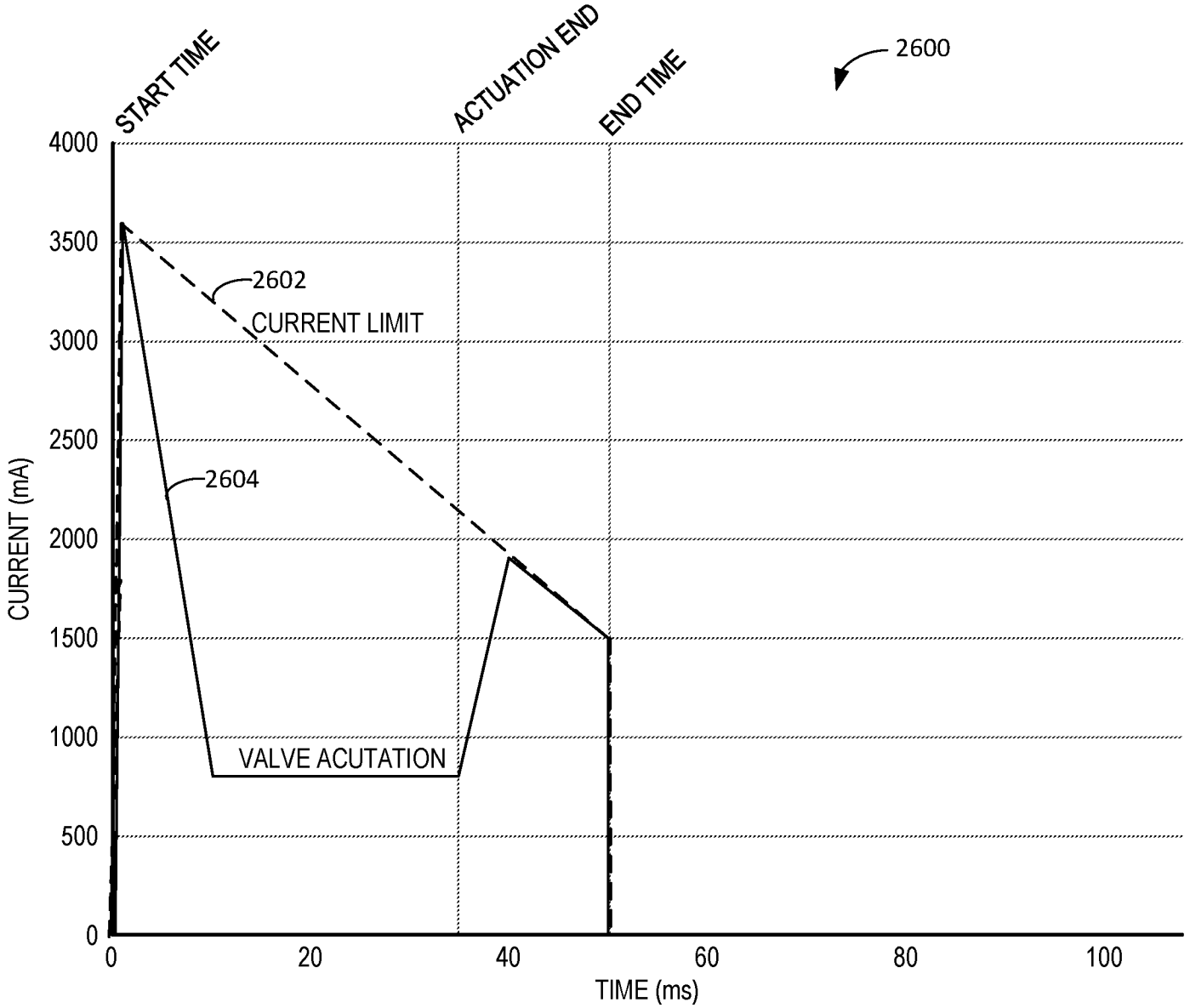

START TIME
ACTUATION END
END TIME
2600
4000
3500
3000
2500
2000
1500
1000
500
0
2602
CURRENT LIMIT
2604
VALVE ACUTATION
CURRENT (mA)
0
20
40
60
80
100
TIME (ms)

FIG. 26

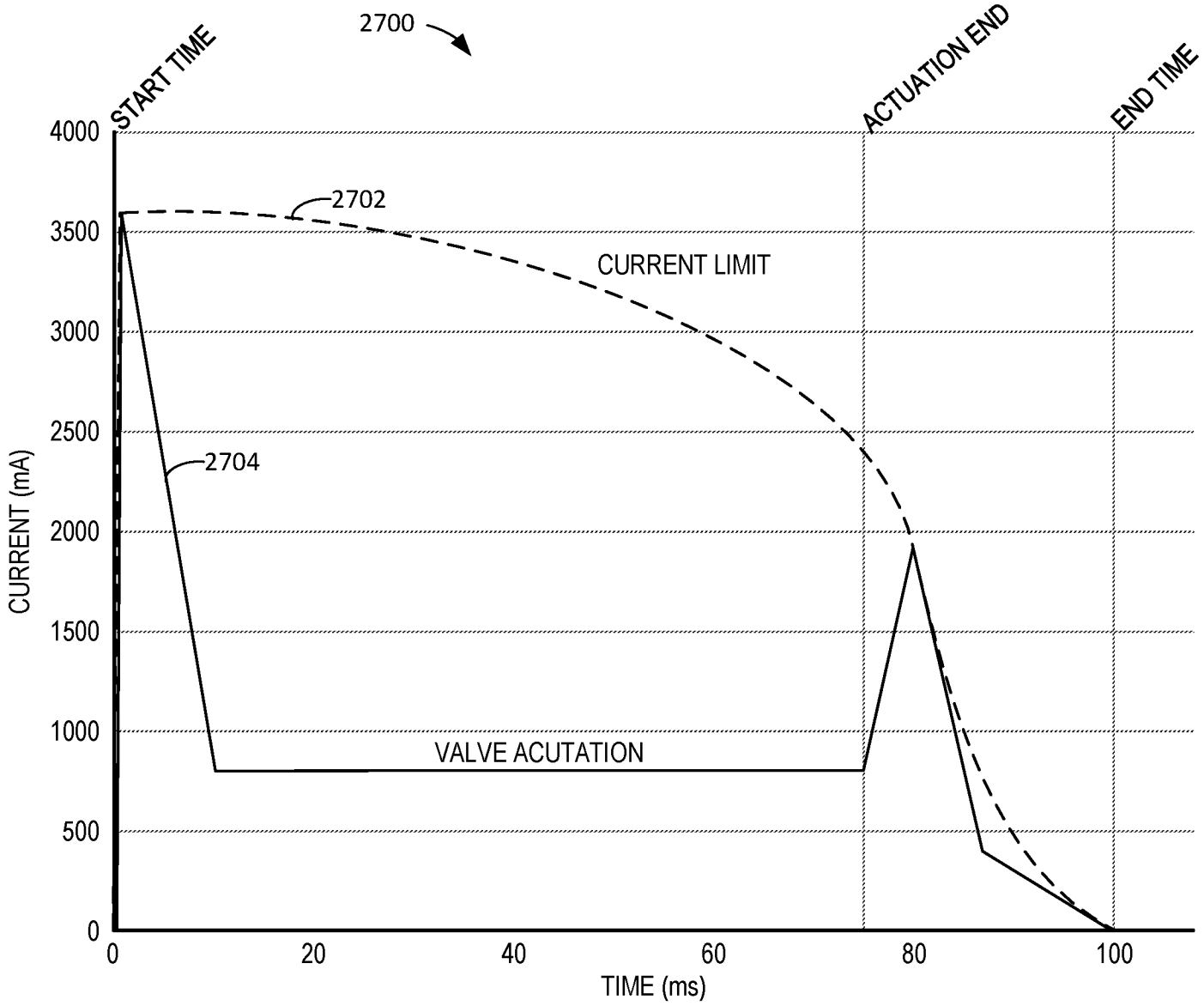

2700
START TIME
ACTUATION END
END TIME
4000
3500
3000
2500
2000
1500
1000
500
0
2702
CURRENT LIMIT
2704
VALVE ACUTATION
CURRENT (mA)
0
20
40
60
80
100
TIME (ms)

FIG. 27

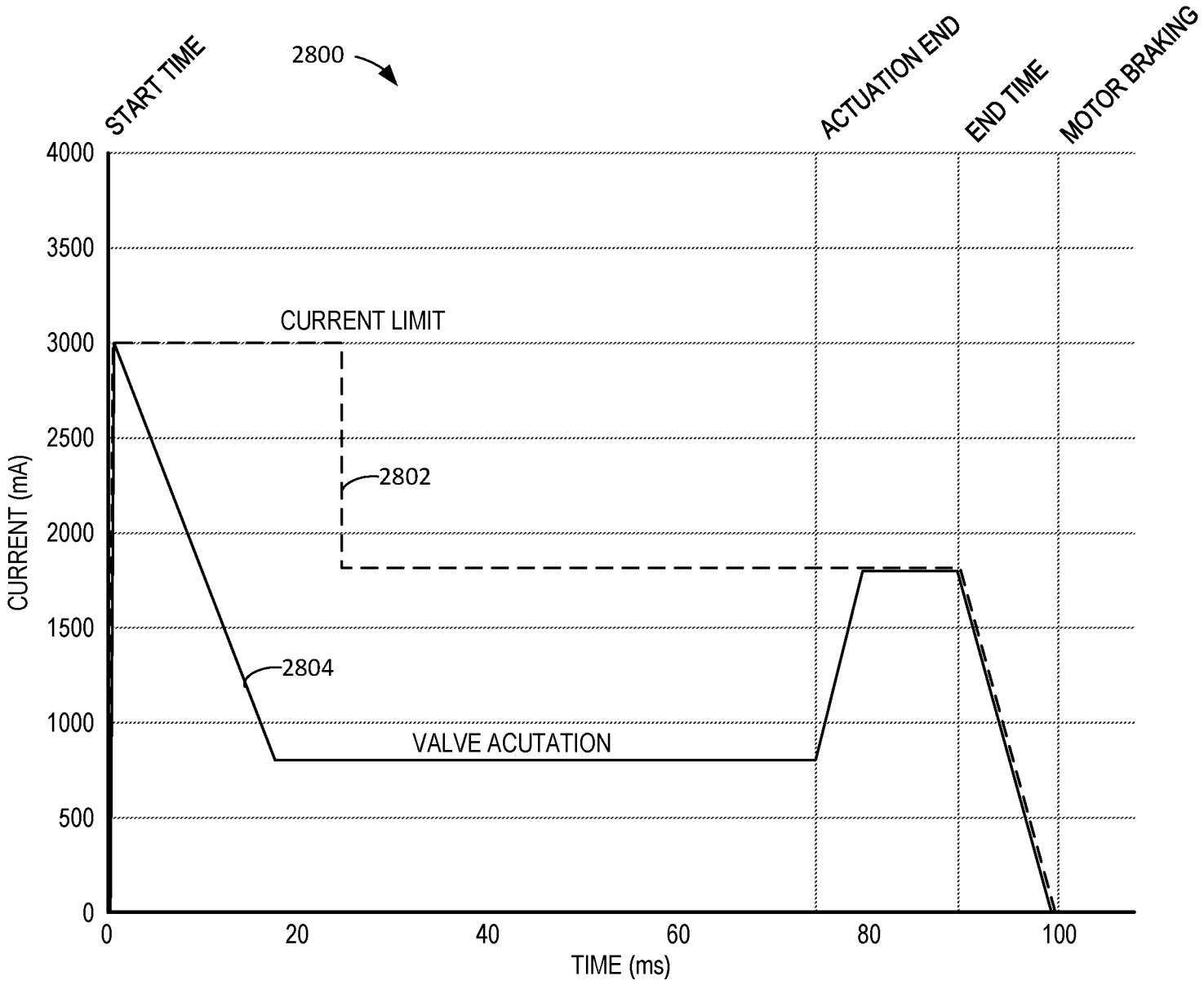

START TIME
2800
ACTUATION END
END TIME
MOTOR BRAKING
4000
3500
3000
2500
2000
1500
1000
500
0
CURRENT (mA)
CURRENT LIMIT
2802
2804
VALVE ACUTATION
0
20
40
60
80
100
TIME (ms)

FIG. 28

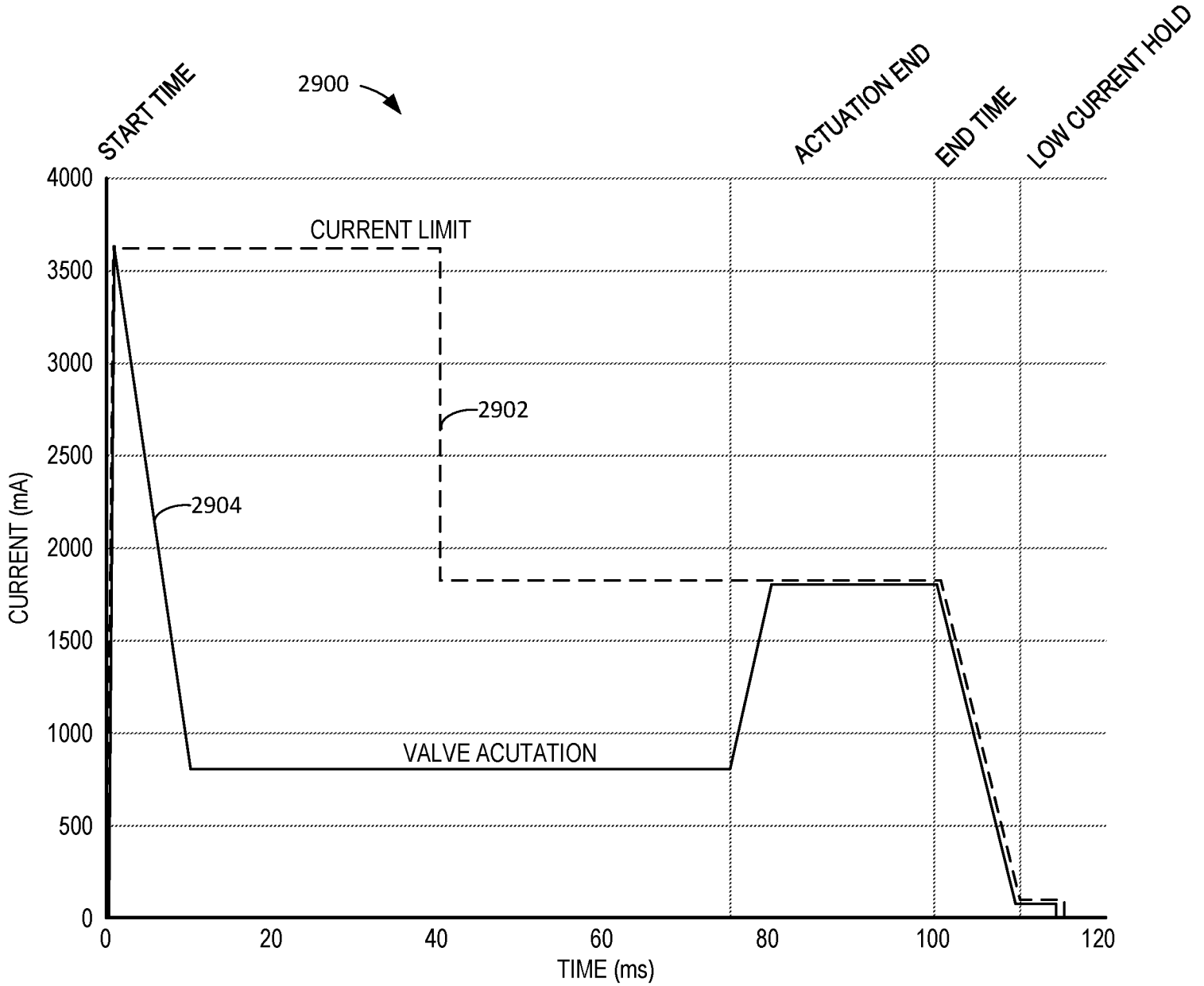

START TIME
2900
ACTUATION END
END TIME
LOW CURRENT HOLD
CURRENT LIMIT
2902
2904
VALVE ACUTATION
CURRENT (mA)
TIME (ms)
4000
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100
120

FIG. 29

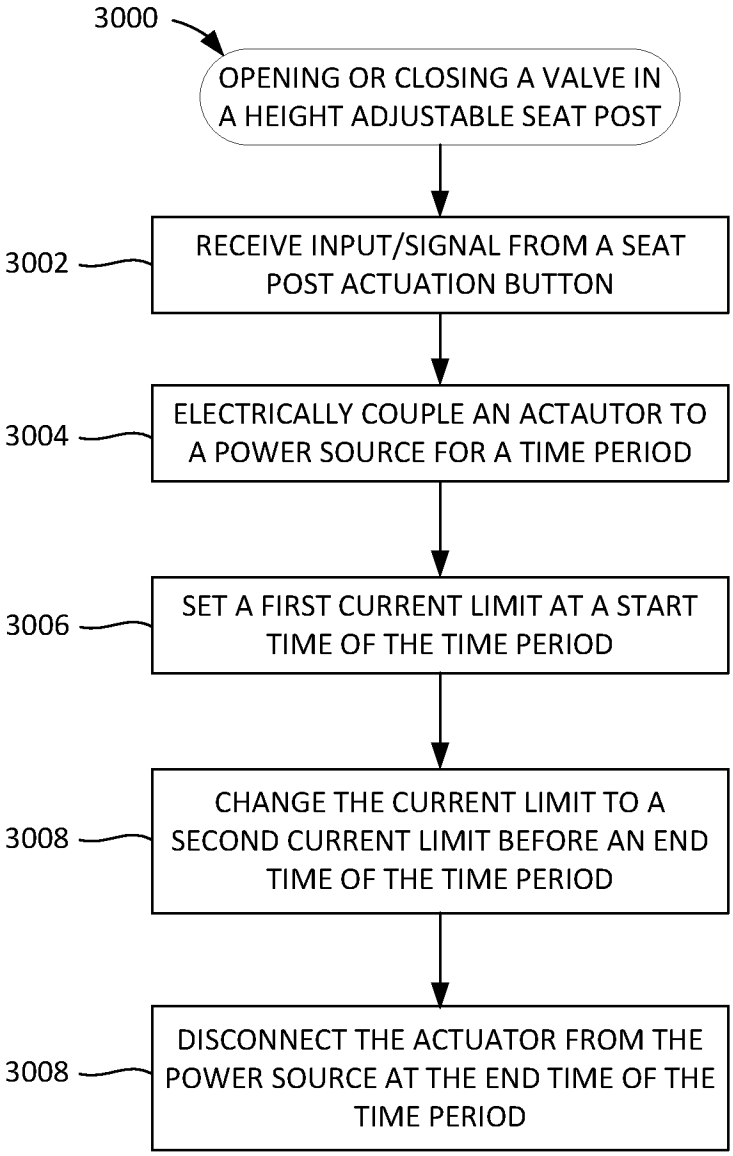

3000
OPENING OR CLOSING A VALVE IN A HEIGHT ADJUSTABLE SEAT POST
3002
RECEIVE INPUT/SIGNAL FROM A SEAT POST ACTUATION BUTTON
3004
ELECTRICALLY COUPLE AN ACTAUTOR TO A POWER SOURCE FOR A TIME PERIOD
3006
SET A FIRST CURRENT LIMIT AT A START TIME OF THE TIME PERIOD
3008
CHANGE THE CURRENT LIMIT TO A SECOND CURRENT LIMIT BEFORE AN END TIME OF THE TIME PERIOD
3008
DISCONNECT THE ACTUATOR FROM THE POWER SOURCE AT THE END TIME OF THE TIME PERIOD

FIG. 30

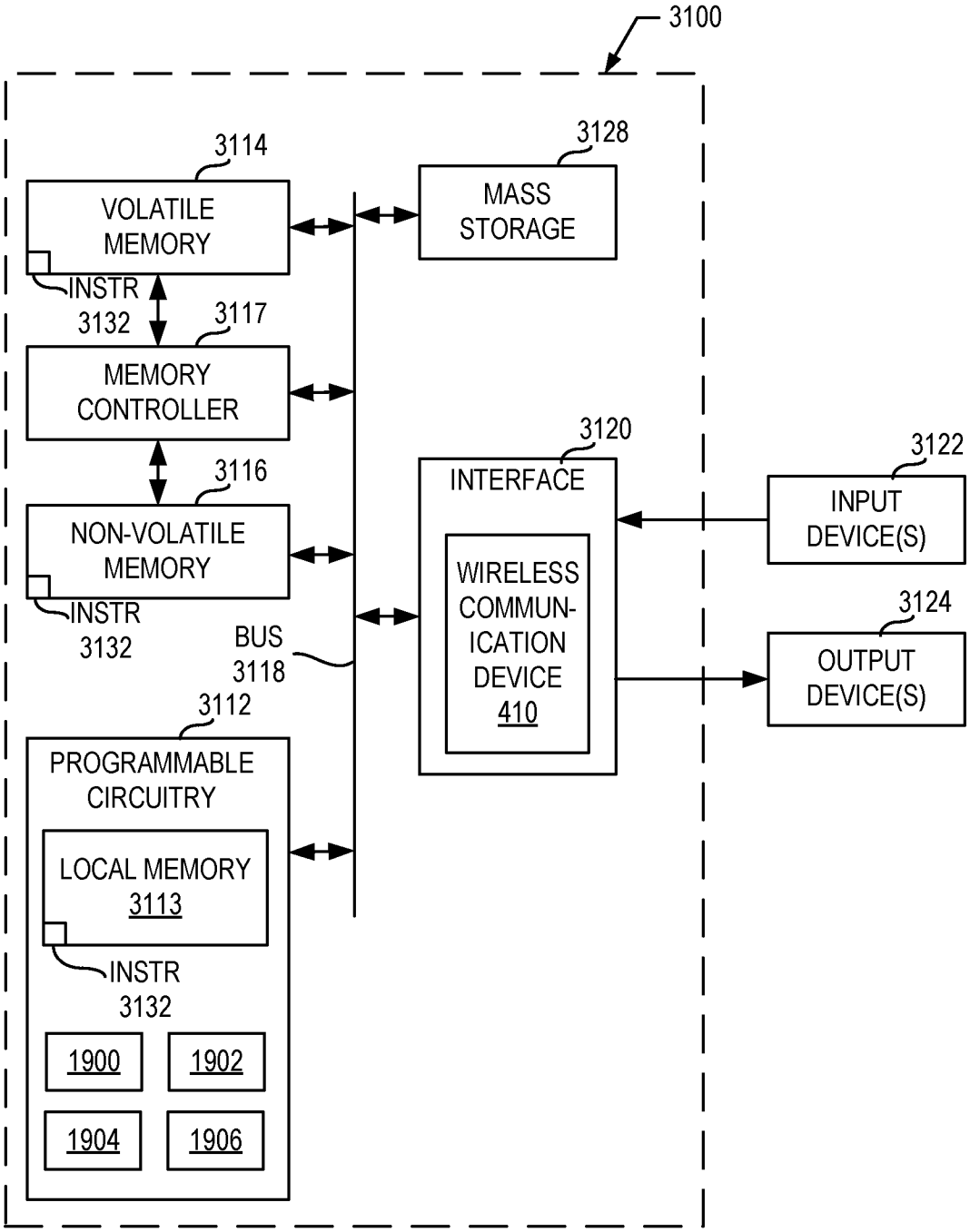

3100
3114
VOLATILE MEMORY
INSTR 3132
3128
MASS STORAGE
3117
MEMORY CONTROLLER
3116
NON-VOLATILE MEMORY
INSTR 3132
BUS 3118
3120
INTERFACE
WIRELESS COMMUN-ICATION DEVICE 410
3122
INPUT DEVICE(S)
3124
OUTPUT DEVICE(S)
3112
PROGRAMMABLE CIRCUITRY
LOCAL MEMORY 3113
INSTR 3132
1900
1902
1904
1906

FIG. 31