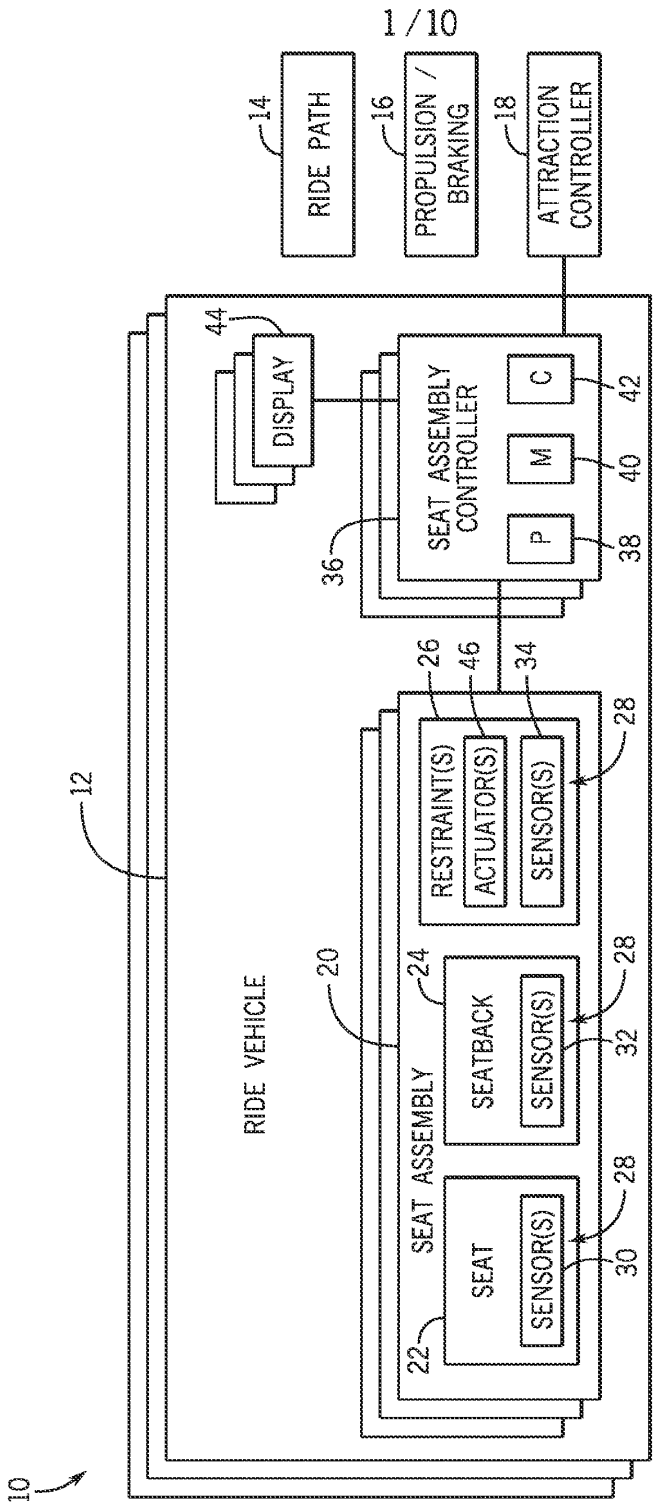

10
12
RIDE VEHICLE
20
SEAT ASSEMBLY
22
SEAT
SENSOR(S)
24
SEATBACK
SENSOR(S)
26
RESTRAINT(S)
ACTUATOR(S)
SENSOR(S)
28
30
32
34
36
SEAT ASSEMBLY CONTROLLER
C
M
P
38
40
42
44
DISPLAY
RIDE PATH
14
PROPULSION / BRAKING
16
ATTRACTION CONTROLLER
18
46

FIG. 1

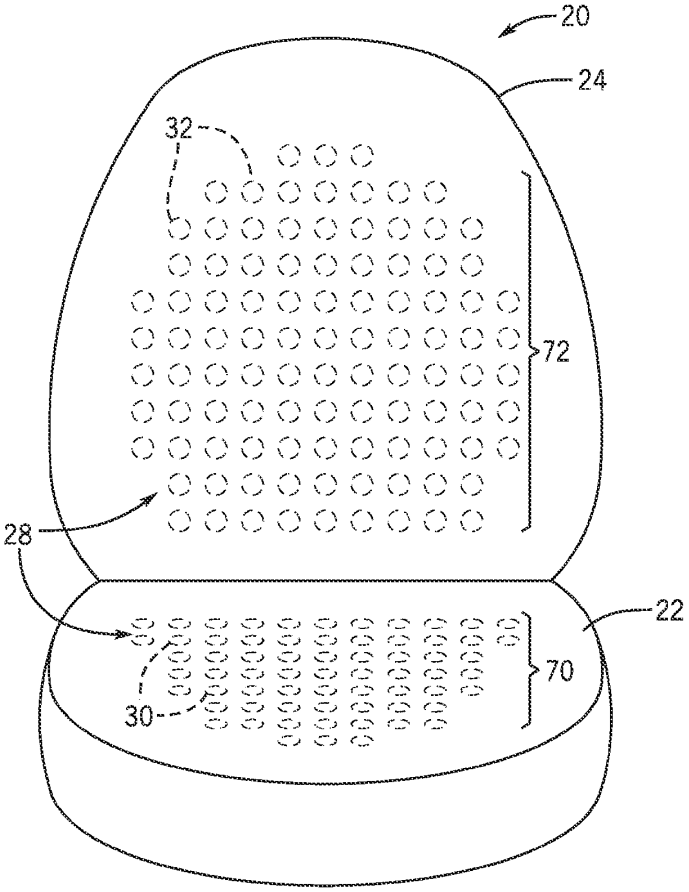


FIG. 2

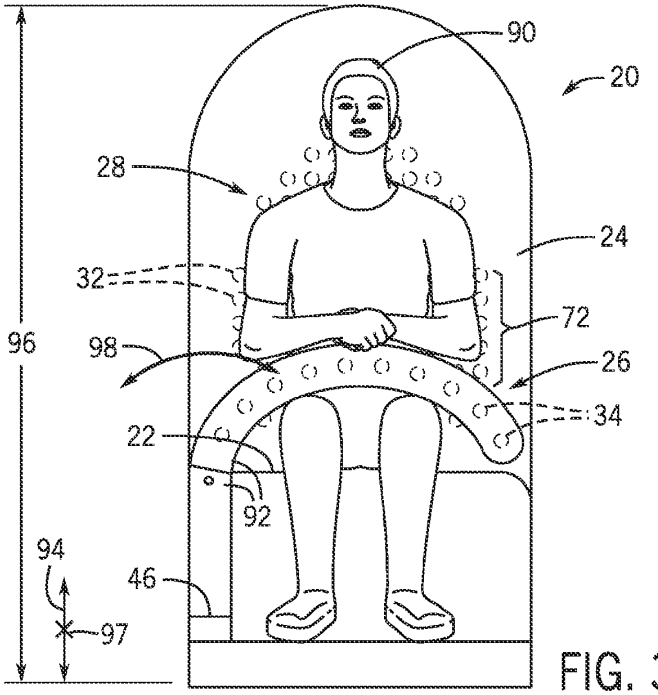

90
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97

FIG. 3

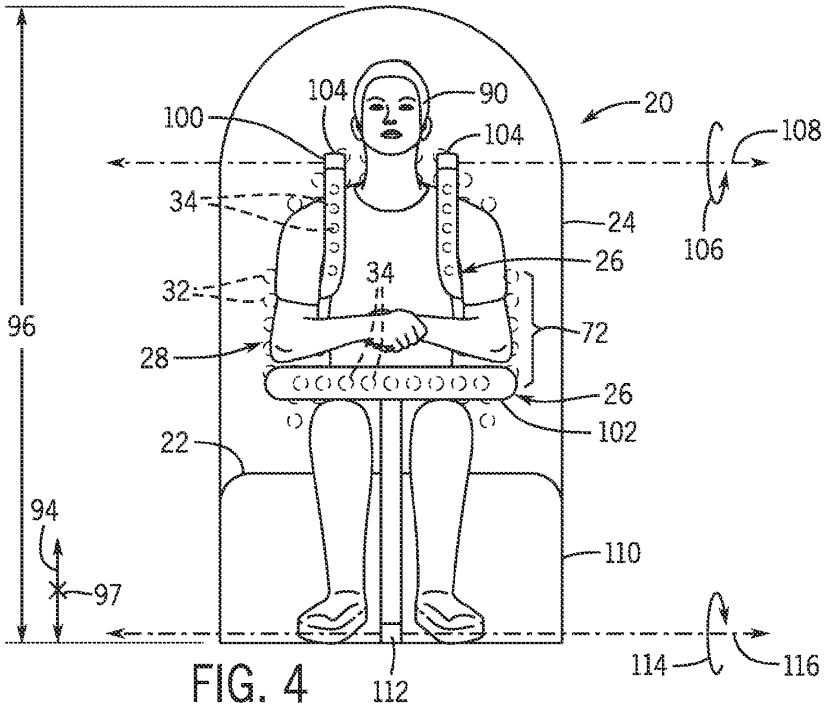

104
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112

FIG. 4

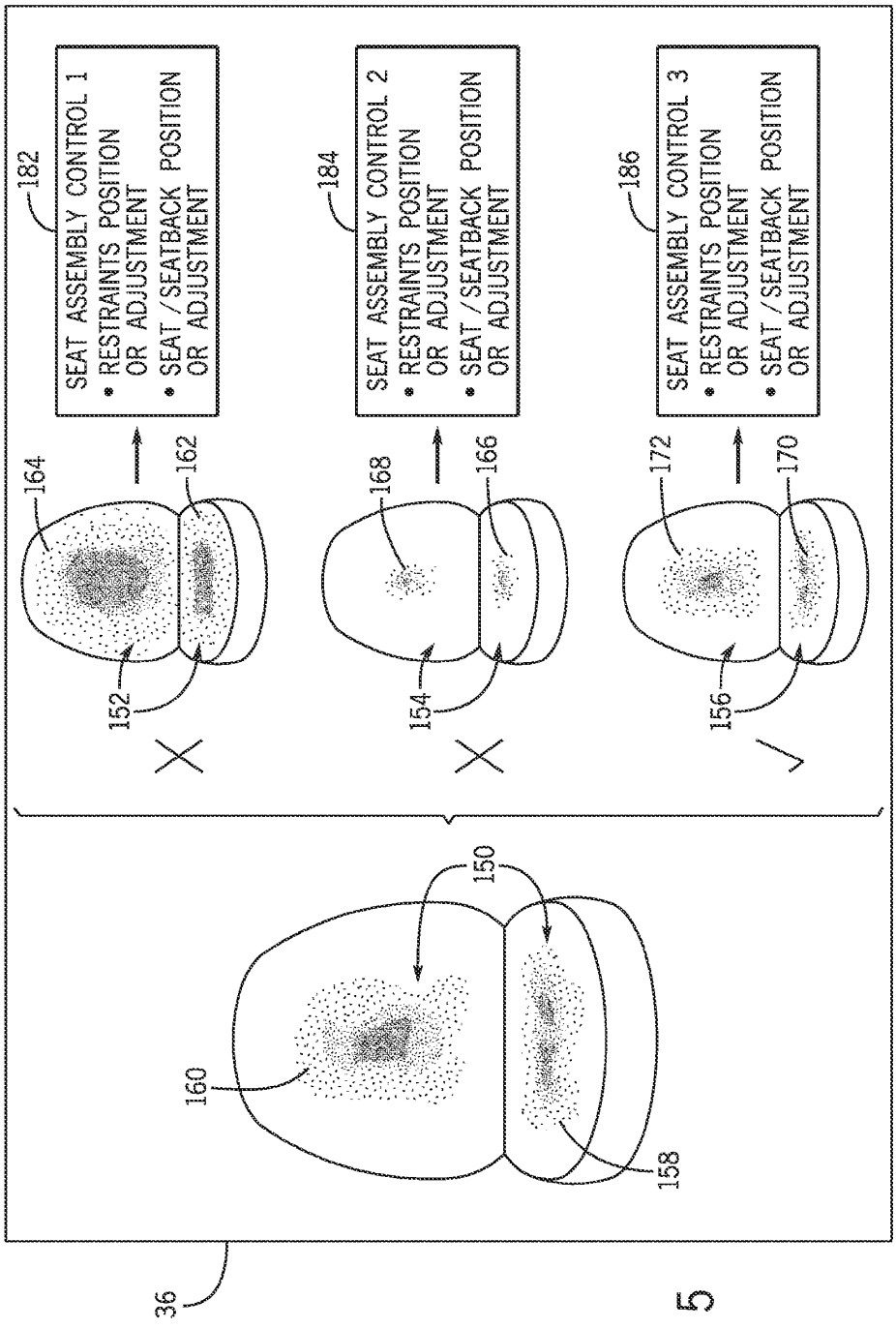

182
SEAT ASSEMBLY CONTROL 1
• RESTRAINTS POSITION OR ADJUSTMENT
• SEAT / SEATBACK POSITION OR ADJUSTMENT
184
SEAT ASSEMBLY CONTROL 2
• RESTRAINTS POSITION OR ADJUSTMENT
• SEAT / SEATBACK POSITION OR ADJUSTMENT
186
SEAT ASSEMBLY CONTROL 3
• RESTRAINTS POSITION OR ADJUSTMENT
• SEAT / SEATBACK POSITION OR ADJUSTMENT
164
162
152
168
166
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172
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158
36

FIG. 5

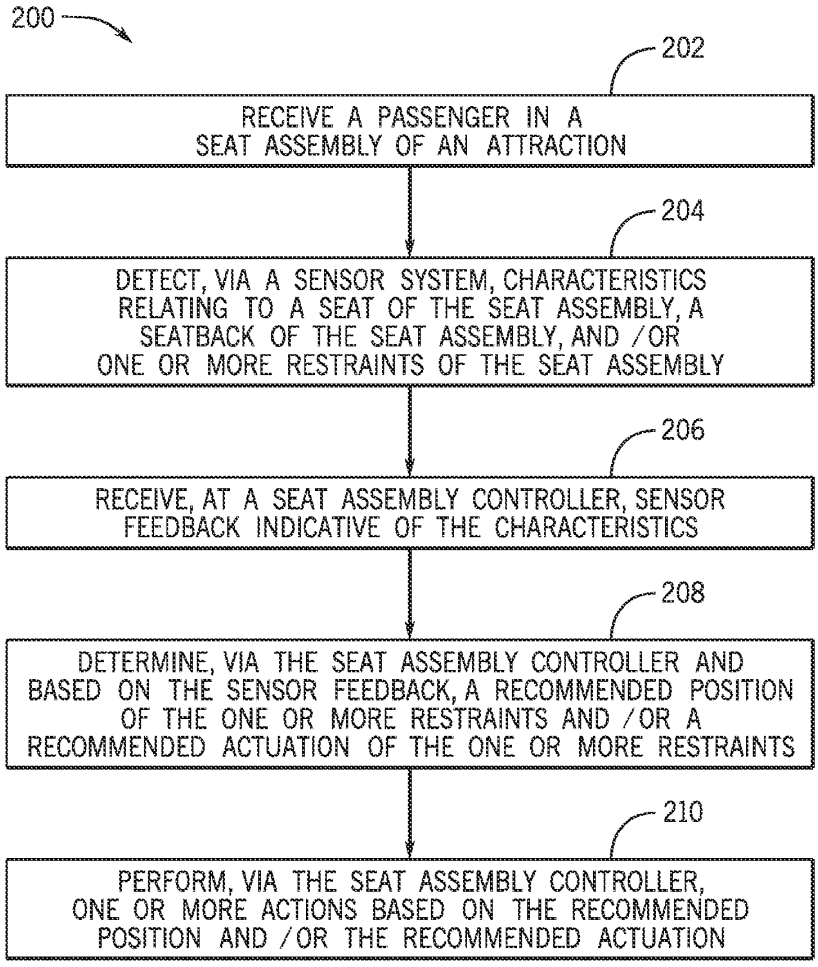

200
202
RECEIVE A PASSENGER IN A SEAT ASSEMBLY OF AN ATTRACTION
204
DETECT, VIA A SENSOR SYSTEM, CHARACTERISTICS RELATING TO A SEAT OF THE SEAT ASSEMBLY, A SEATBACK OF THE SEAT ASSEMBLY, AND /OR ONE OR MORE RESTRAINTS OF THE SEAT ASSEMBLY
206
RECEIVE, AT A SEAT ASSEMBLY CONTROLLER, SENSOR FEEDBACK INDICATIVE OF THE CHARACTERISTICS
208
DETERMINE, VIA THE SEAT ASSEMBLY CONTROLLER AND BASED ON THE SENSOR FEEDBACK, A RECOMMENDED POSITION OF THE ONE OR MORE RESTRAINTS AND /OR A RECOMMENDED ACTUATION OF THE ONE OR MORE RESTRAINTS
210
PERFORM, VIA THE SEAT ASSEMBLY CONTROLLER, ONE OR MORE ACTIONS BASED ON THE RECOMMENDED POSITION AND /OR THE RECOMMENDED ACTUATION

FIG. 6

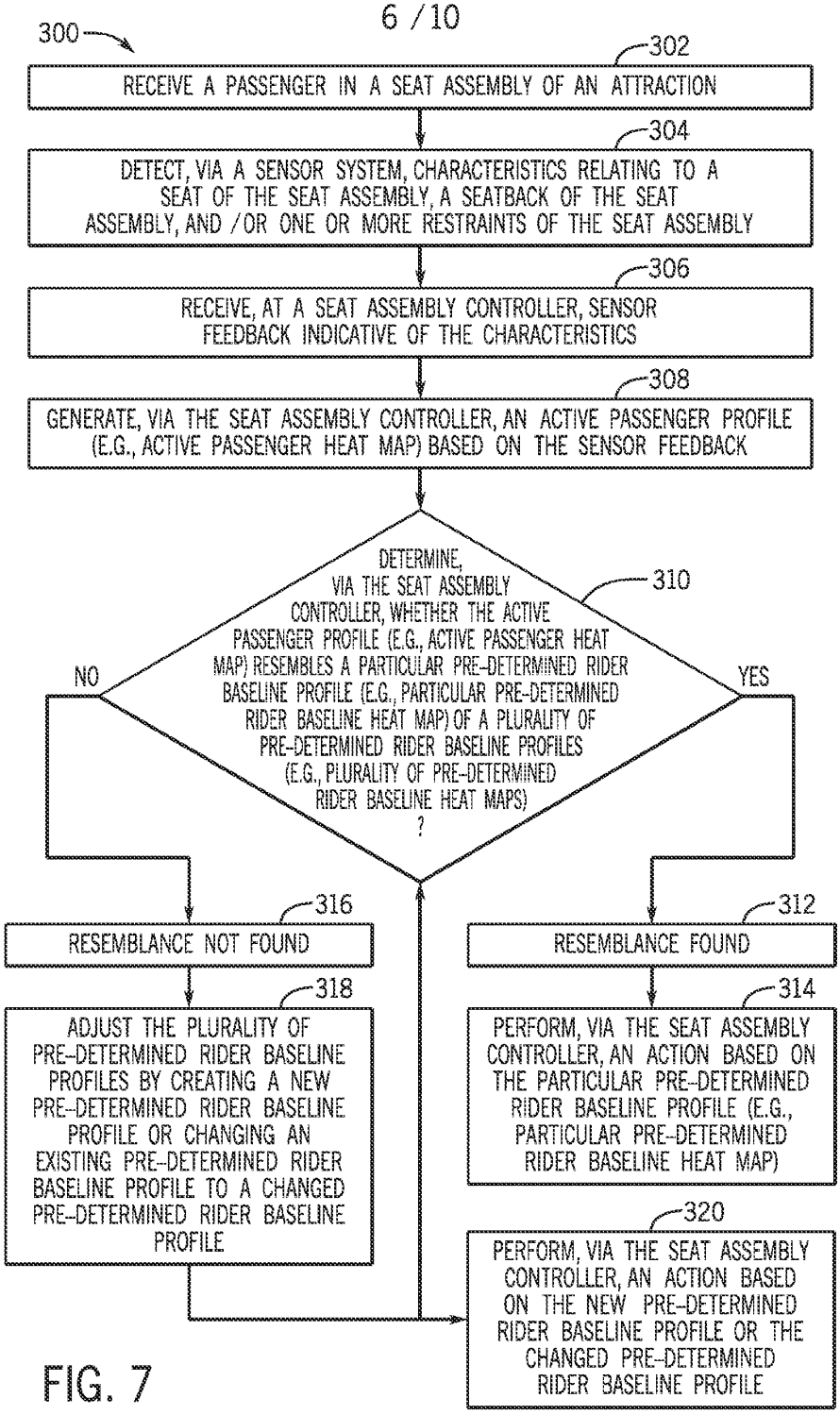

300
302
RECEIVE A PASSENGER IN A SEAT ASSEMBLY OF AN ATTRACTION
304
DETECT, VIA A SENSOR SYSTEM, CHARACTERISTICS RELATING TO A SEAT OF THE SEAT ASSEMBLY, A SEATBACK OF THE SEAT ASSEMBLY, AND /OR ONE OR MORE RESTRAINTS OF THE SEAT ASSEMBLY
306
RECEIVE, AT A SEAT ASSEMBLY CONTROLLER, SENSOR FEEDBACK INDICATIVE OF THE CHARACTERISTICS
308
GENERATE, VIA THE SEAT ASSEMBLY CONTROLLER, AN ACTIVE PASSENGER PROFILE (E.G., ACTIVE PASSENGER HEAT MAP) BASED ON THE SENSOR FEEDBACK
310
DETERMINE, VIA THE SEAT ASSEMBLY CONTROLLER, WHETHER THE ACTIVE PASSENGER PROFILE (E.G., ACTIVE PASSENGER HEAT MAP) RESEMBLES A PARTICULAR PRE-DETERMINED RIDER BASELINE PROFILE (E.G., PARTICULAR PRE-DETERMINED RIDER BASELINE HEAT MAP) OF A PLURALITY OF PRE-DETERMINED RIDER BASELINE PROFILES (E.G., PLURALITY OF PRE-DETERMINED RIDER BASELINE HEAT MAPS) ?
NO
YES
316
RESEMBLANCE NOT FOUND
318
ADJUST THE PLURALITY OF PRE-DETERMINED RIDER BASELINE PROFILES BY CREATING A NEW PRE-DETERMINED RIDER BASELINE PROFILE OR CHANGING AN EXISTING PRE-DETERMINED RIDER BASELINE PROFILE TO A CHANGED PRE-DETERMINED RIDER BASELINE PROFILE
312
RESEMBLANCE FOUND
314
PERFORM, VIA THE SEAT ASSEMBLY CONTROLLER, AN ACTION BASED ON THE PARTICULAR PRE-DETERMINED RIDER BASELINE PROFILE (E.G., PARTICULAR PRE-DETERMINED RIDER BASELINE HEAT MAP)
320
PERFORM, VIA THE SEAT ASSEMBLY CONTROLLER, AN ACTION BASED ON THE NEW PRE-DETERMINED RIDER BASELINE PROFILE OR THE CHANGED PRE-DETERMINED RIDER BASELINE PROFILE

FIG. 7

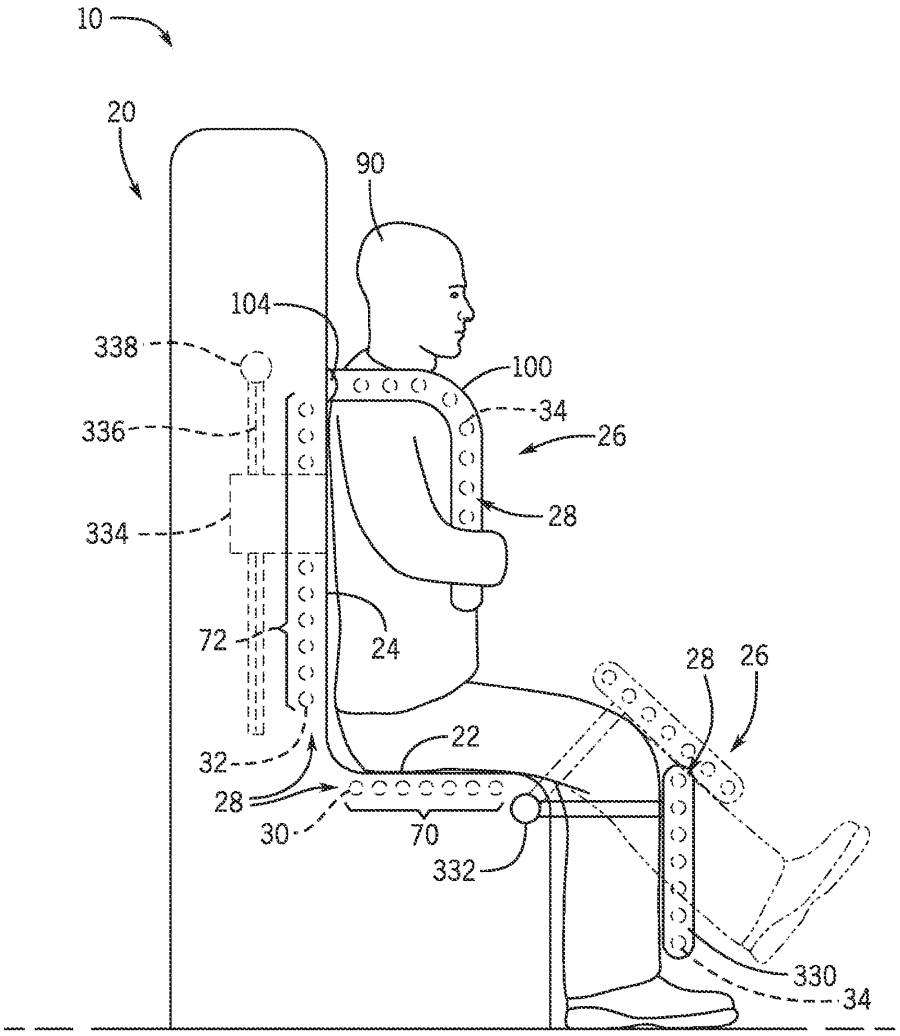

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FIG. 8

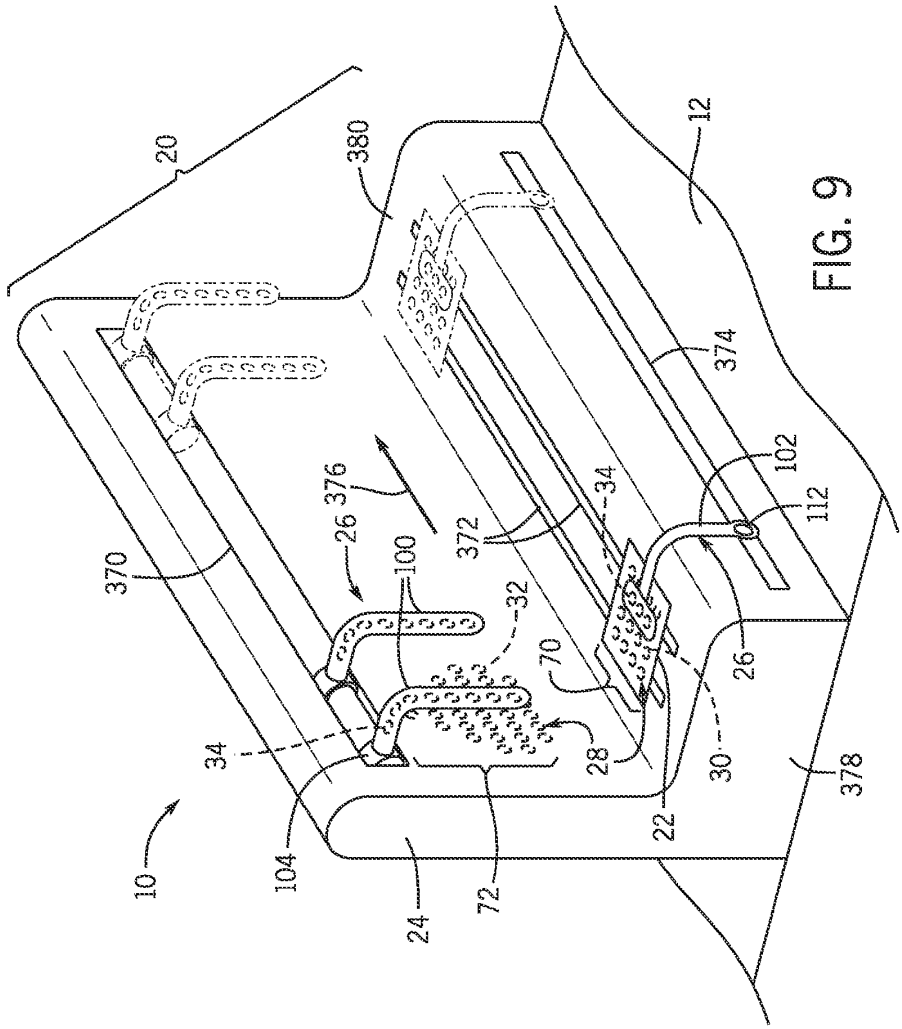

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374
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112
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372
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378
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104
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72
22

FIG. 9

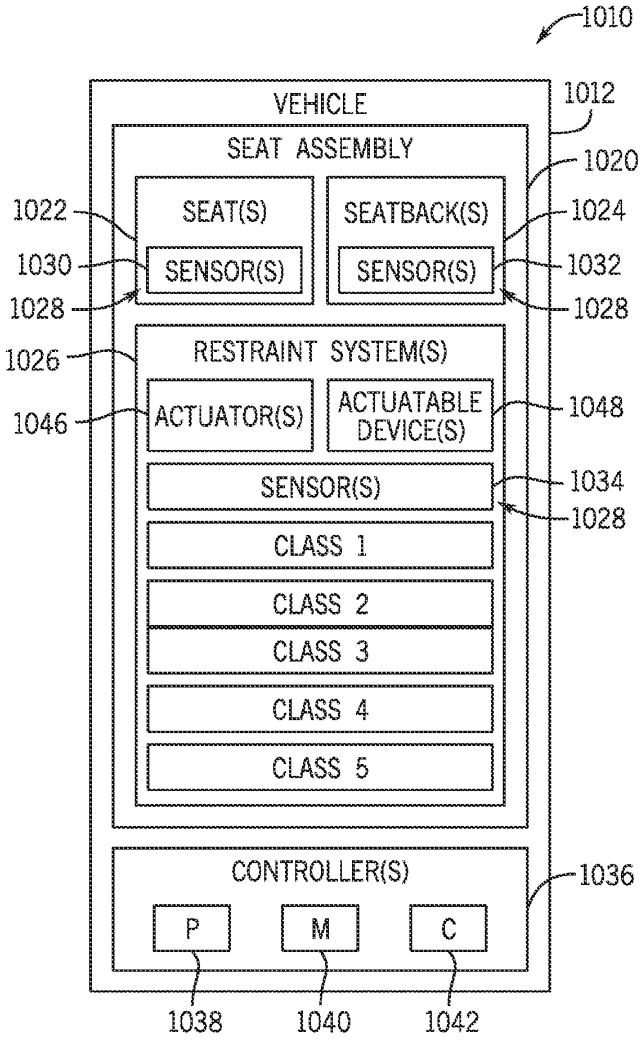

1010
VEHICLE
1012
SEAT ASSEMBLY
1020
SEAT(S)
SEATBACK(S)
1022
1024
SENSOR(S)
SENSOR(S)
1030
1032
1028
1028
RESTRAINT SYSTEM(S)
1026
ACTUATOR(S)
ACTUATABLE DEVICE(S)
1046
1048
SENSOR(S)
1034
1028
CLASS 1
CLASS 2
CLASS 3
CLASS 4
CLASS 5
CONTROLLER(S)
1036
P
M
C
1038
1040
1042

FIG. 10

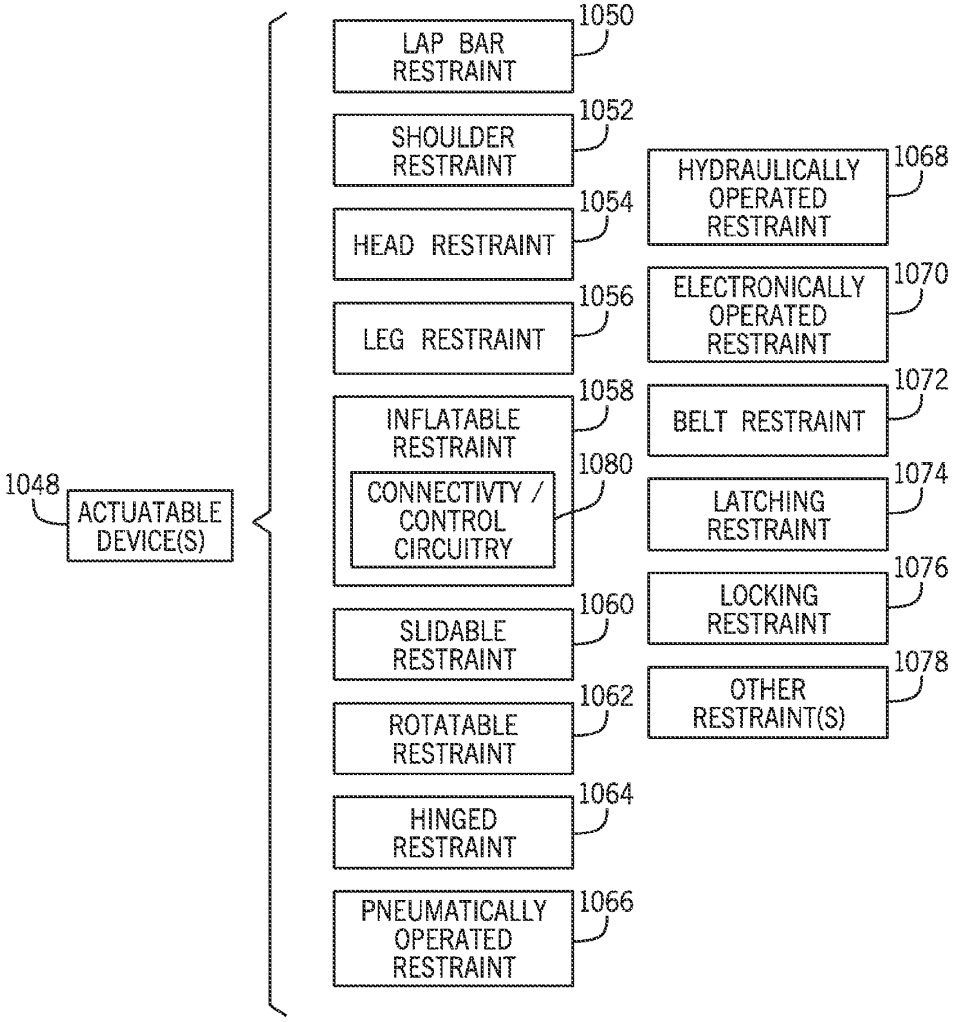

1048
ACTUATABLE DEVICE(S)
LAP BAR RESTRAINT
1050
SHOULDER RESTRAINT
1052
HEAD RESTRAINT
1054
LEG RESTRAINT
1056
INFLATABLE RESTRAINT
1058
CONNECTIVTY / CONTROL CIRCUITRY
1080
SLIDABLE RESTRAINT
1060
ROTATABLE RESTRAINT
1062
HINGED RESTRAINT
1064
PNEUMATICALLY OPERATED RESTRAINT
1066
HYDRAULICALLY OPERATED RESTRAINT
1068
ELECTRONICALLY OPERATED RESTRAINT
1070
BELT RESTRAINT
1072
LATCHING RESTRAINT
1074
LOCKING RESTRAINT
1076
OTHER RESTRAINT(S)
1078

FIG. 11