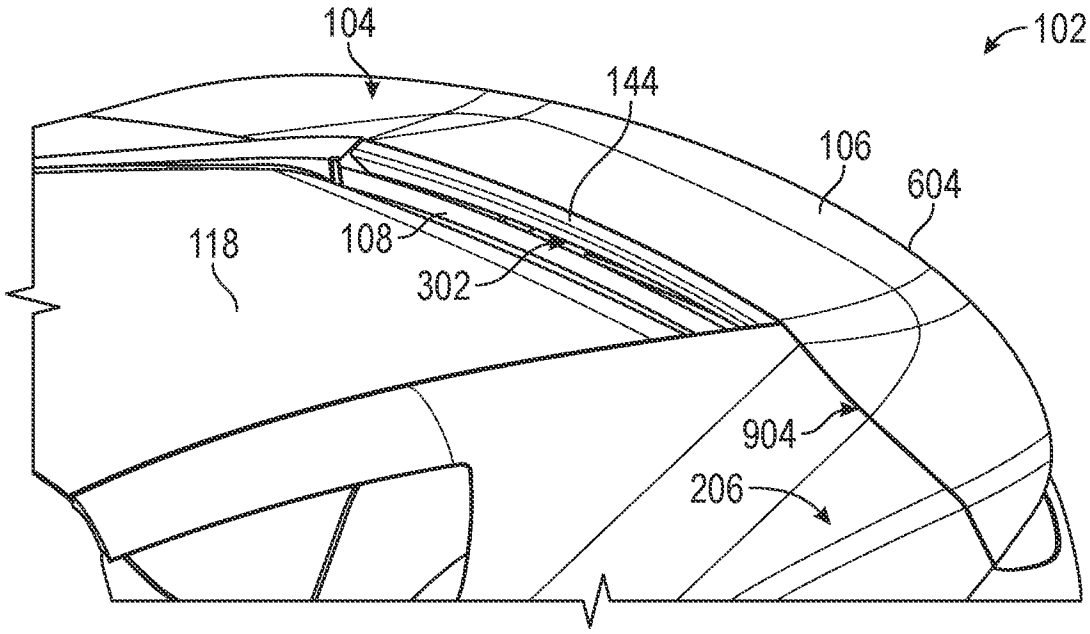

FIG. 1A

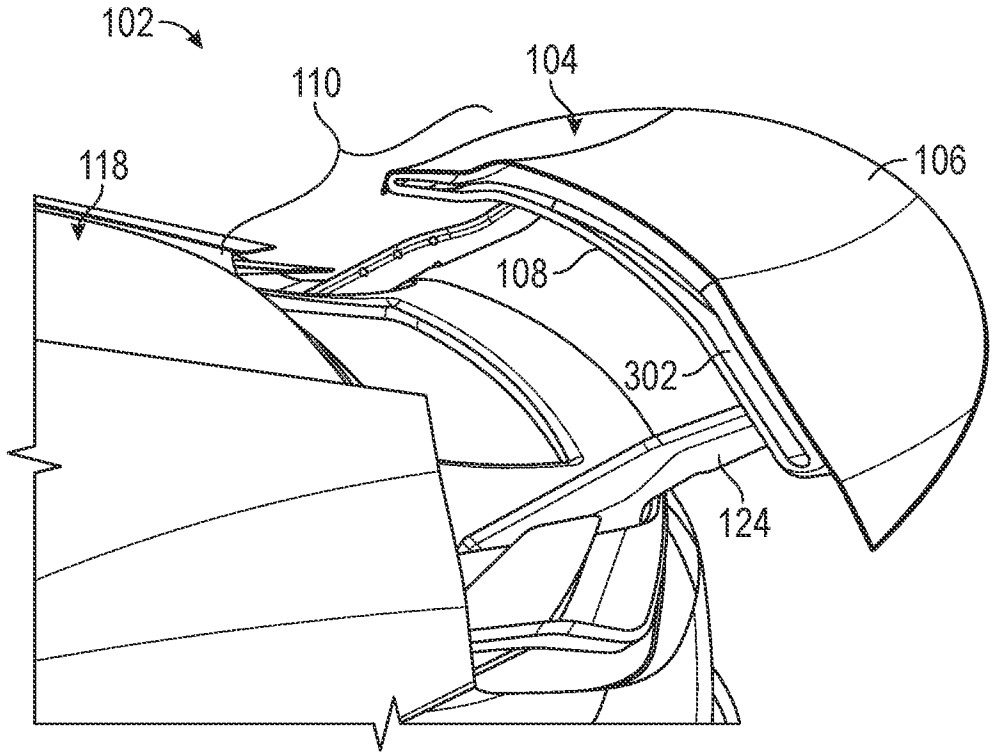
102
110
104
118
106
108
302
124

FIG. 1B

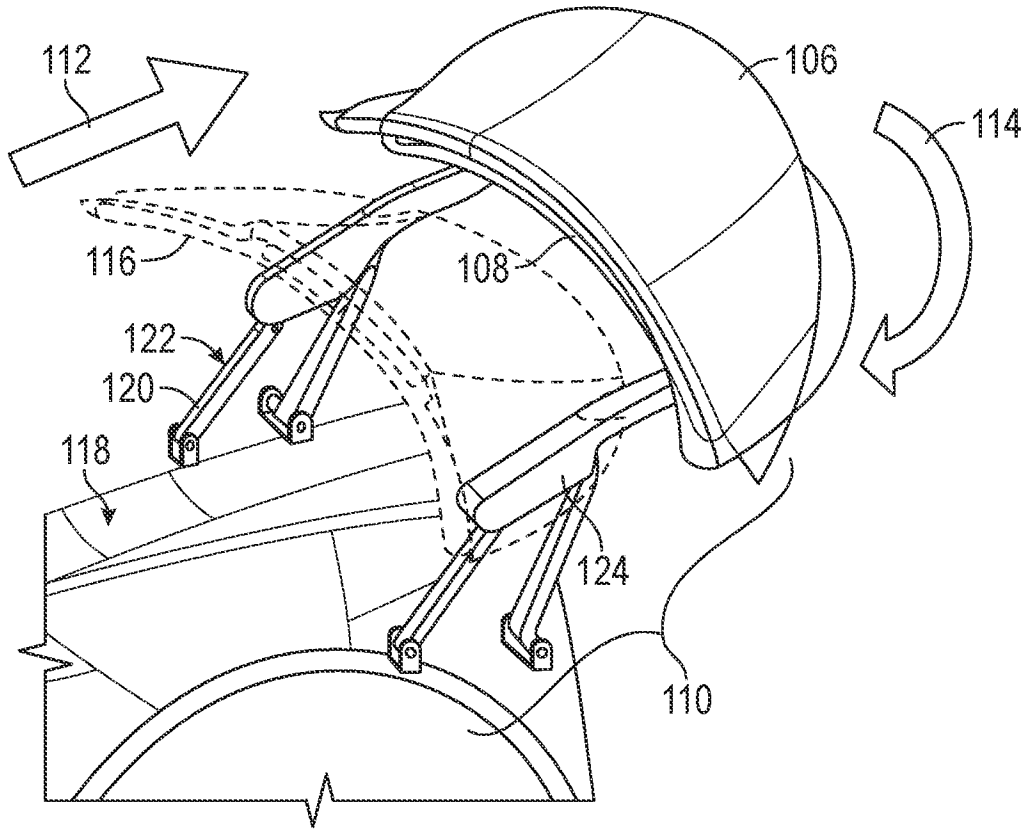
112
106
114
116
108
122
120
118
124
110

FIG. 1C

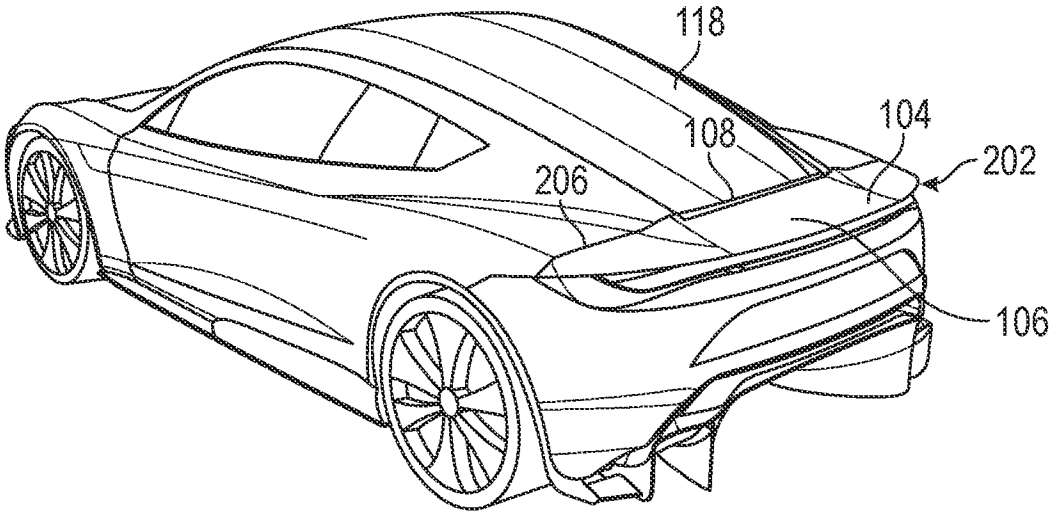

FIG. 2A

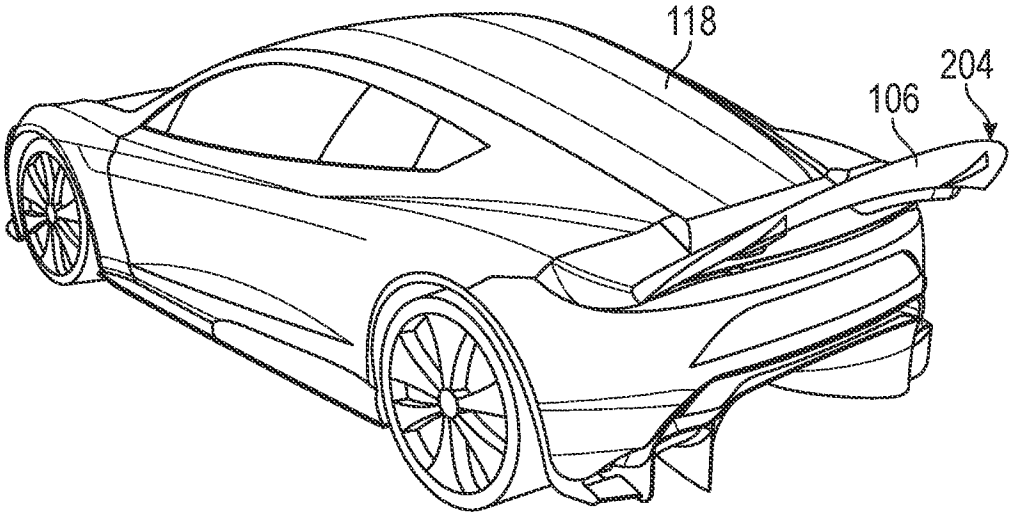

FIG. 2B

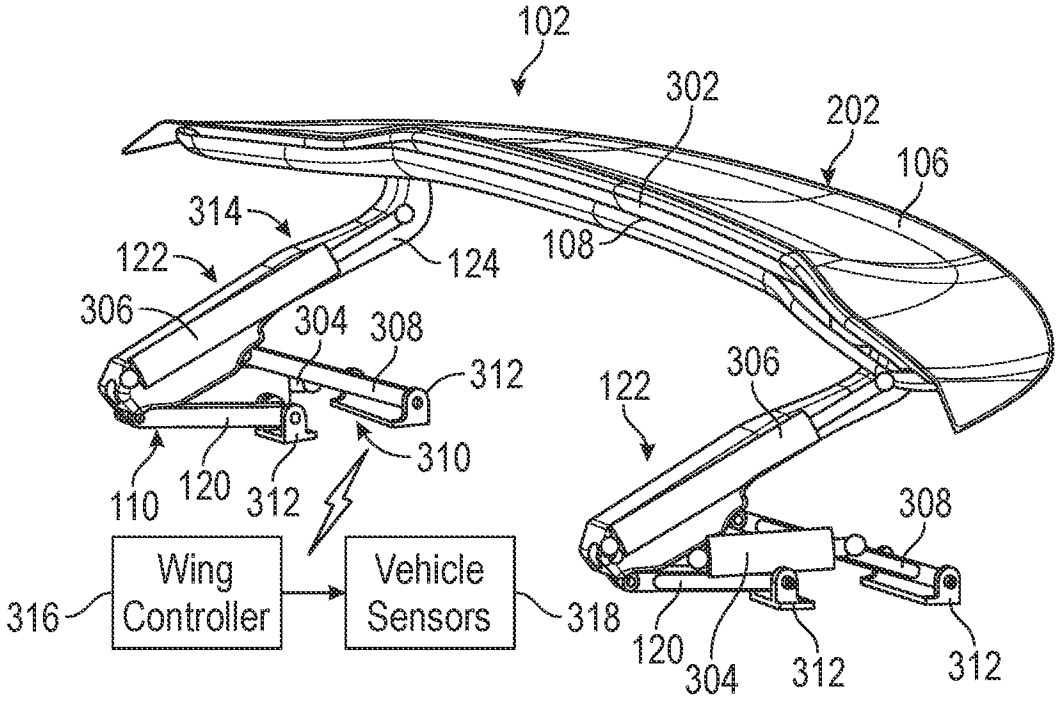
102
302
202
106
314
122
124
108
306
304
308
312
306
122
310
110
120
312
308
Wing Controller
Vehicle Sensors
316
318
120
304
312
312

FIG. 3A

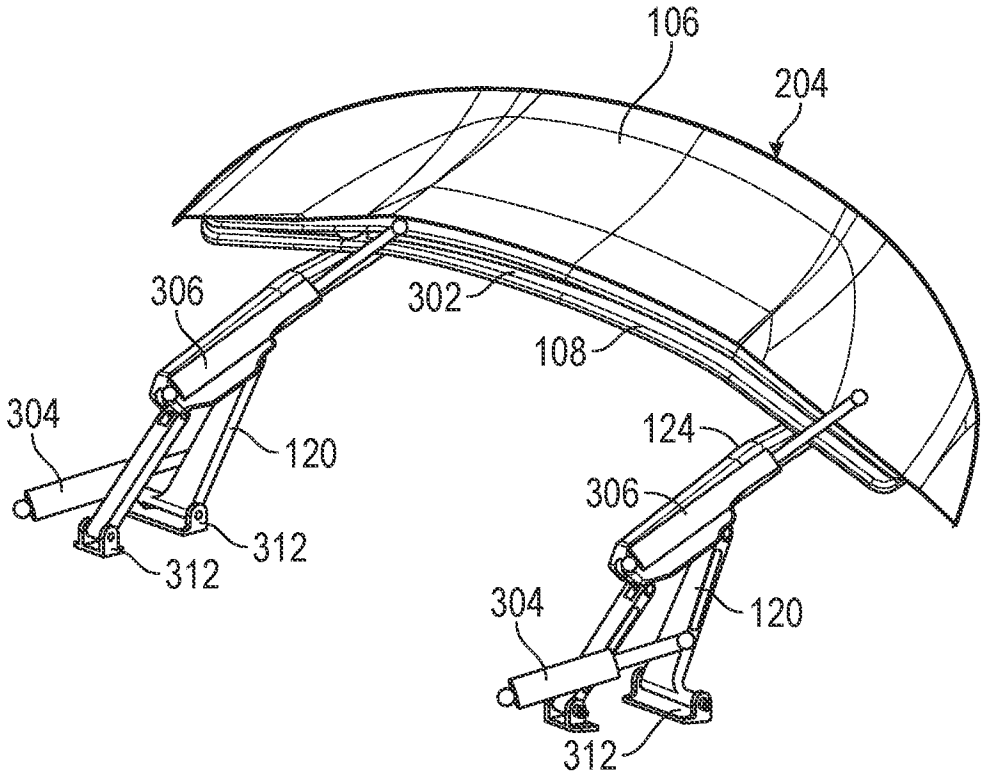
106
204
306
302
108
304
120
124
306
312
312
304
120
312

FIG. 3B

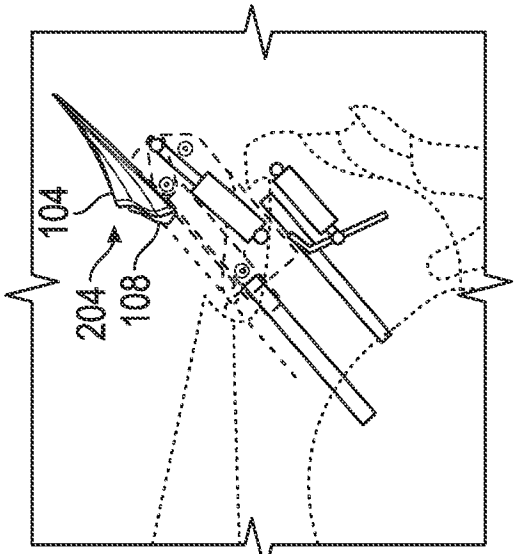

FIG. 4C

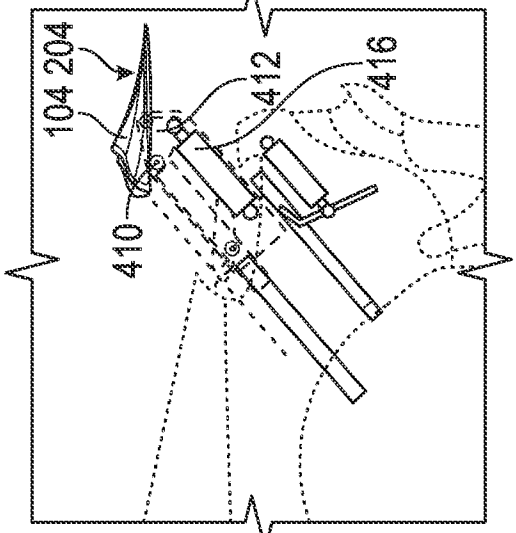

FIG. 4B

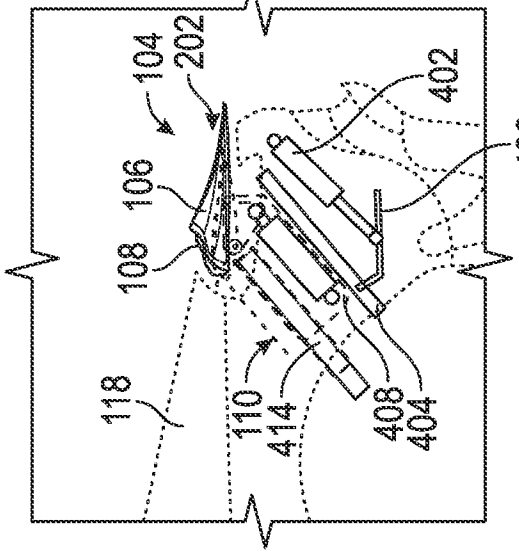

FIG. 4A

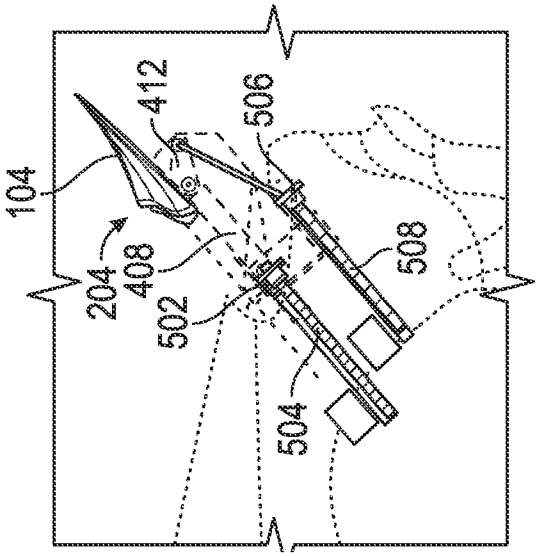

FIG. 5C

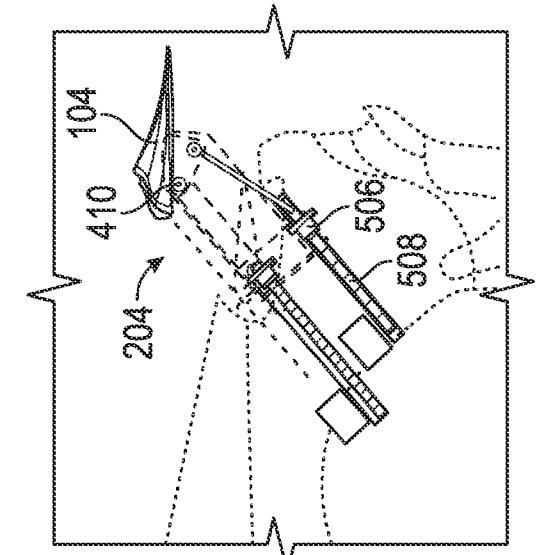

FIG. 5B

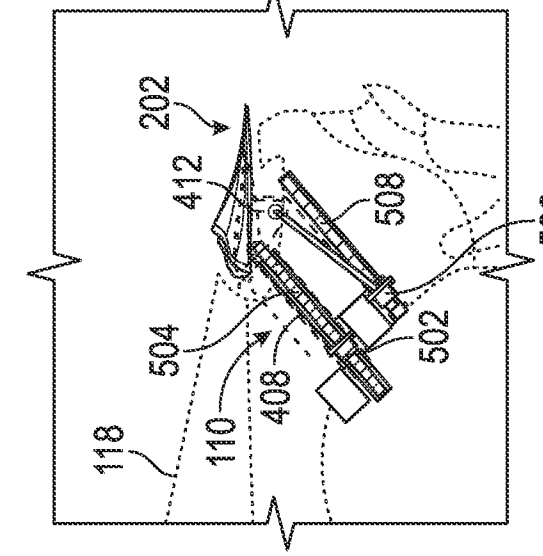

FIG. 5A

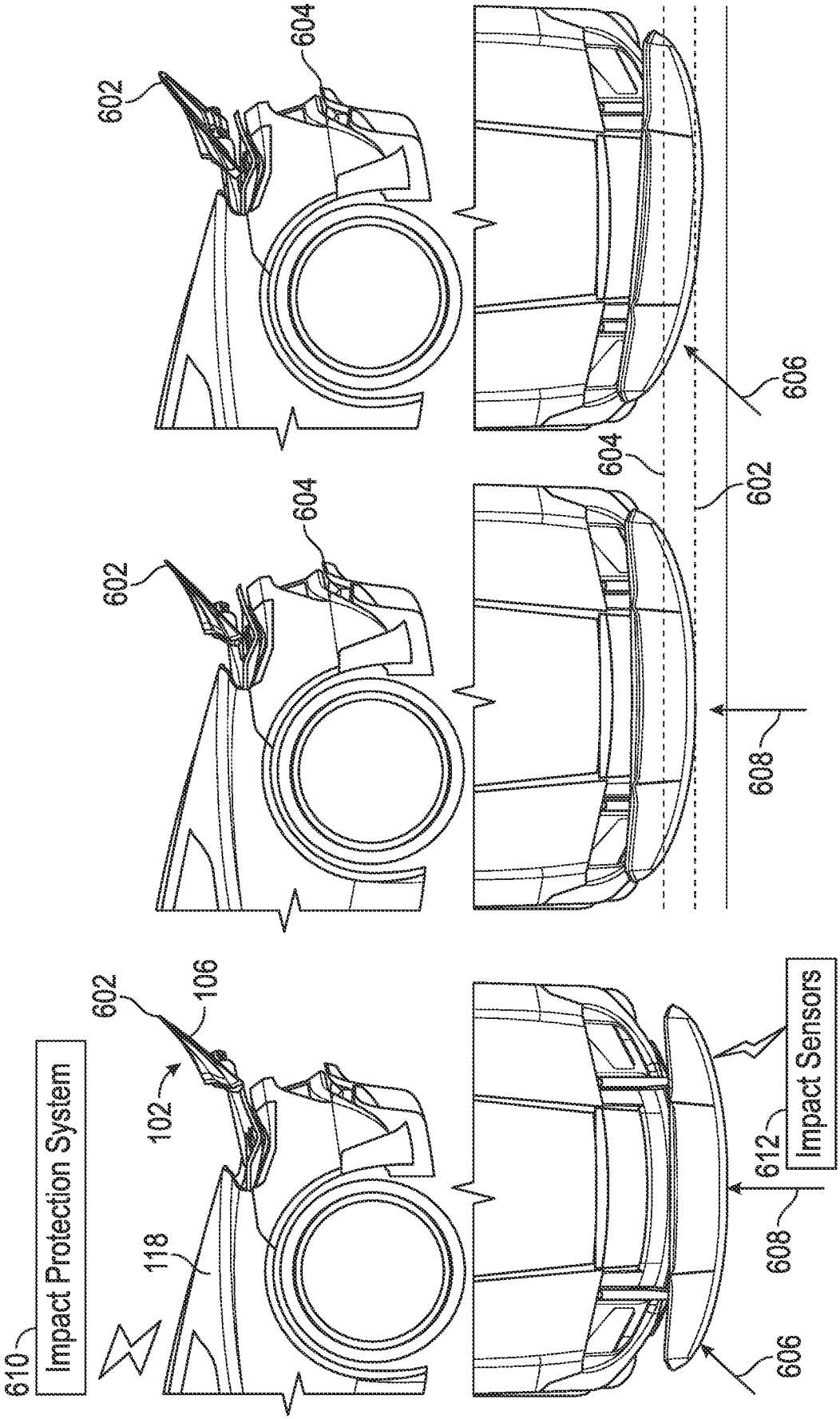

FIG. 6A

FIG. 6B

FIG. 6C

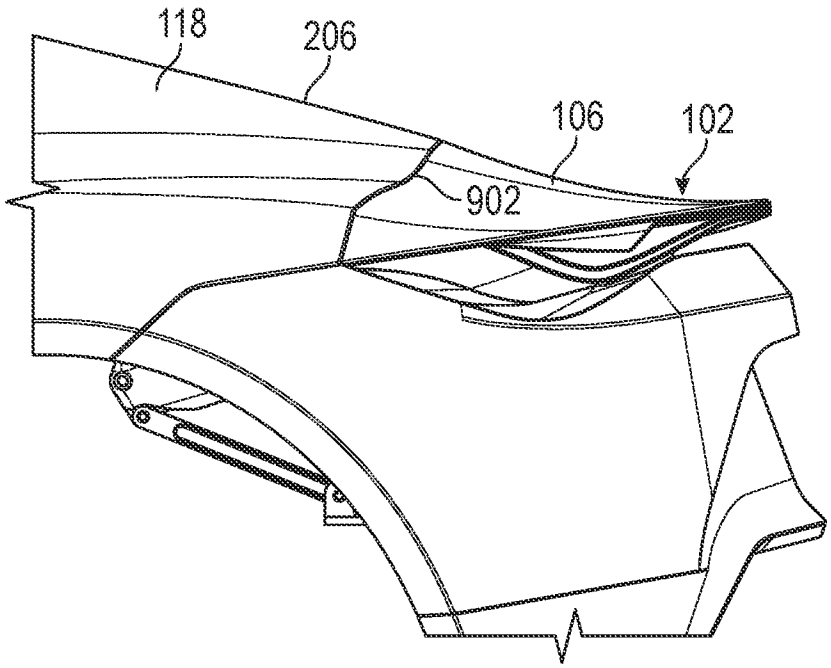

FIG. 7A

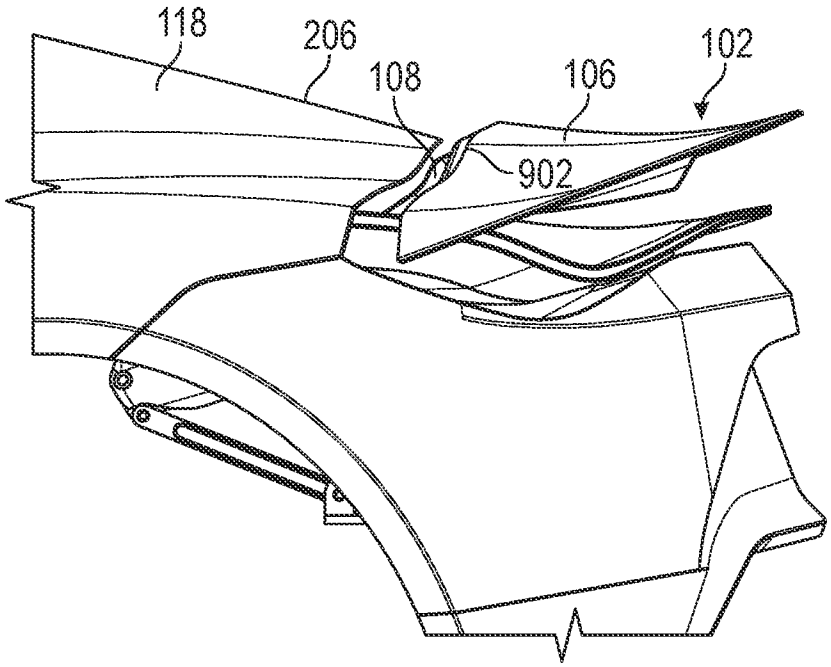

FIG. 7B

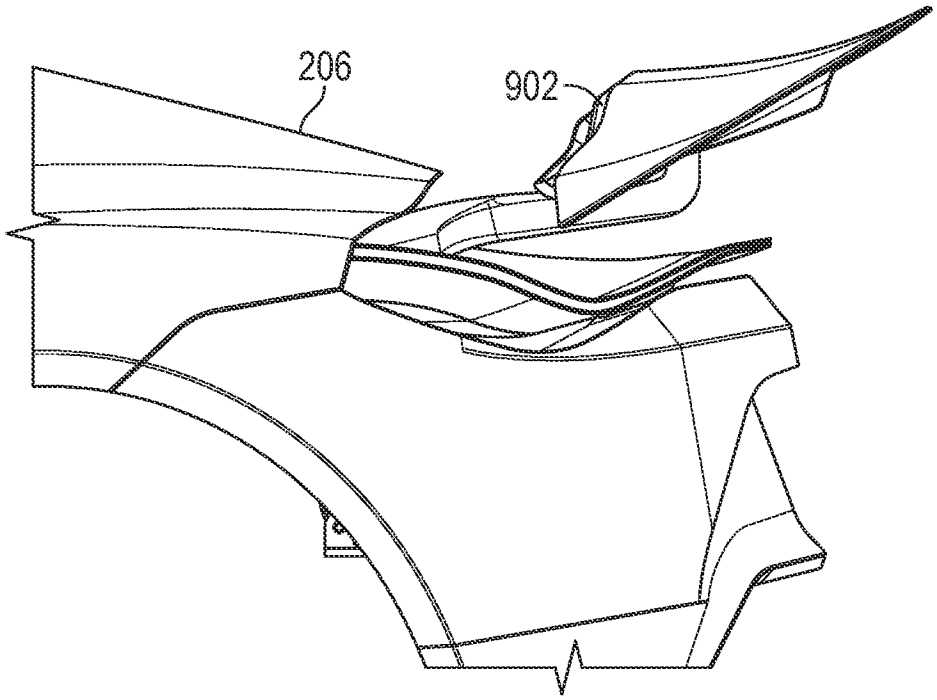

FIG. 7C

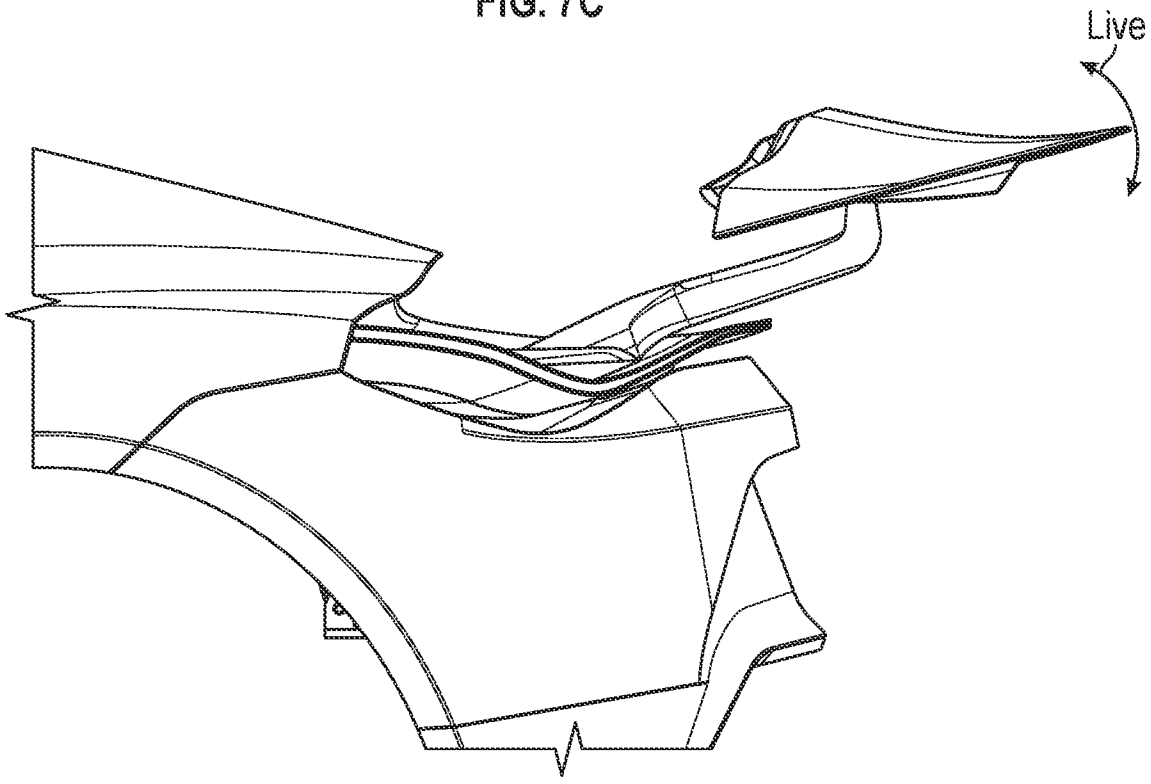

FIG. 7D

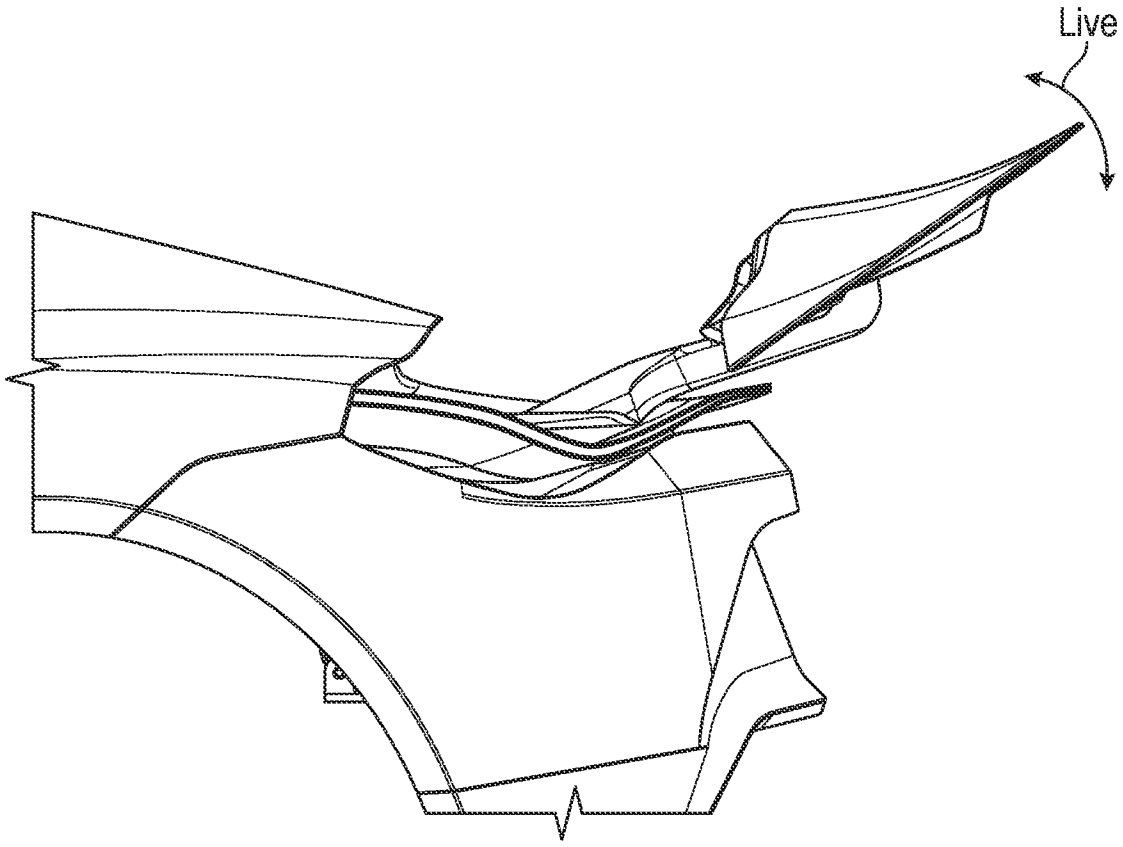

FIG. 7E

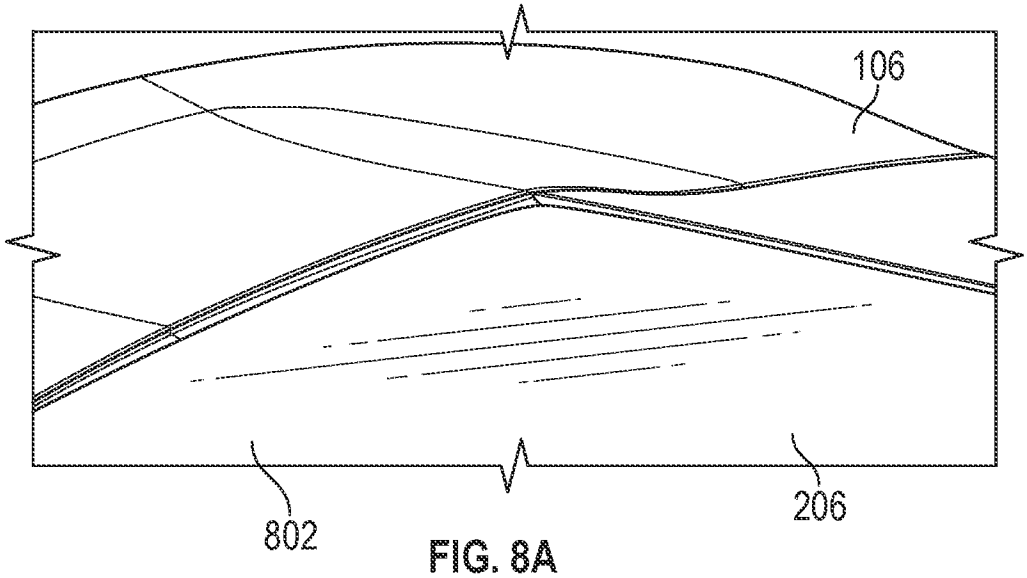

FIG. 8A

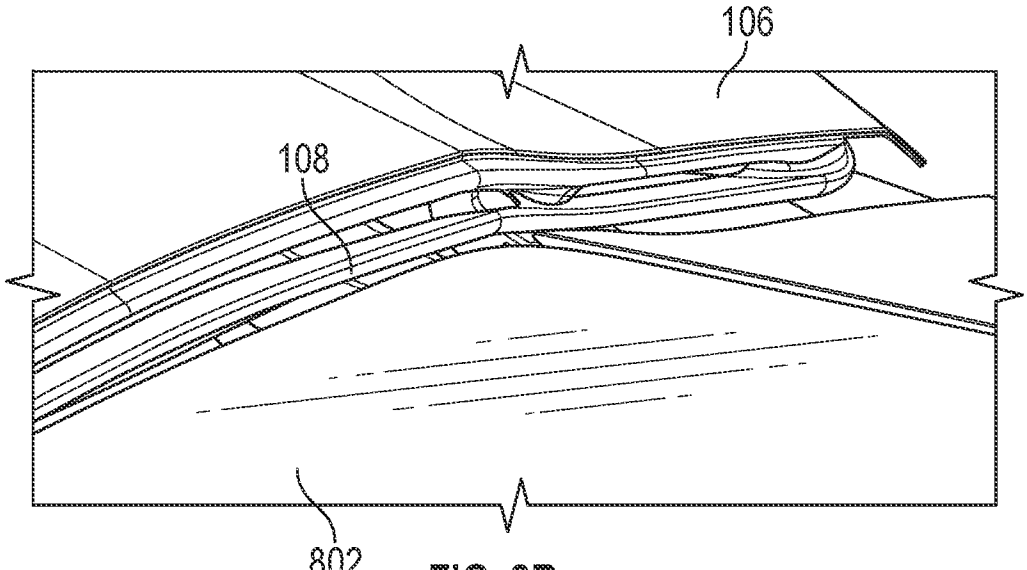

FIG. 8B

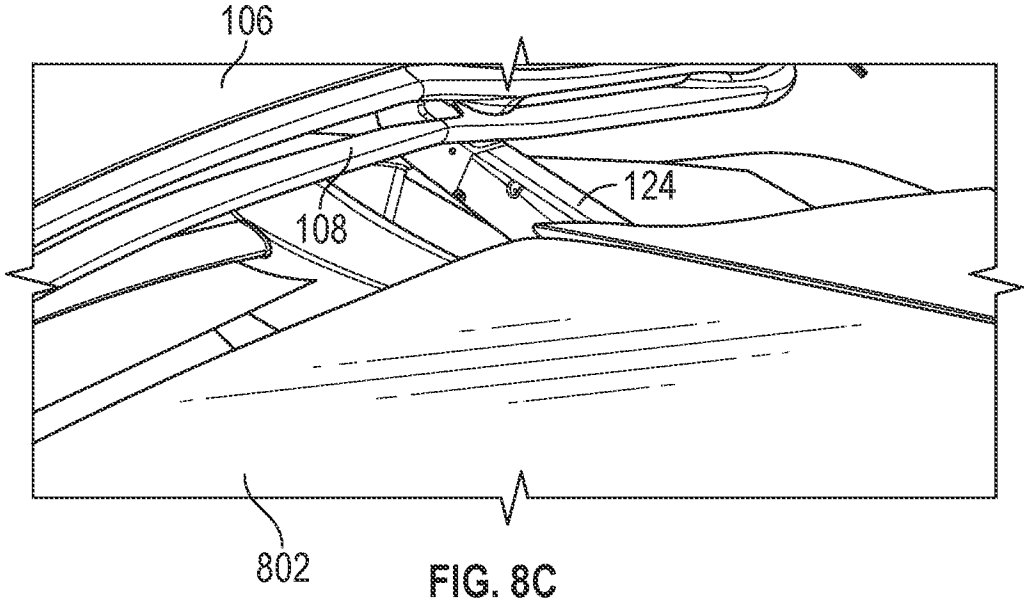

FIG. 8C

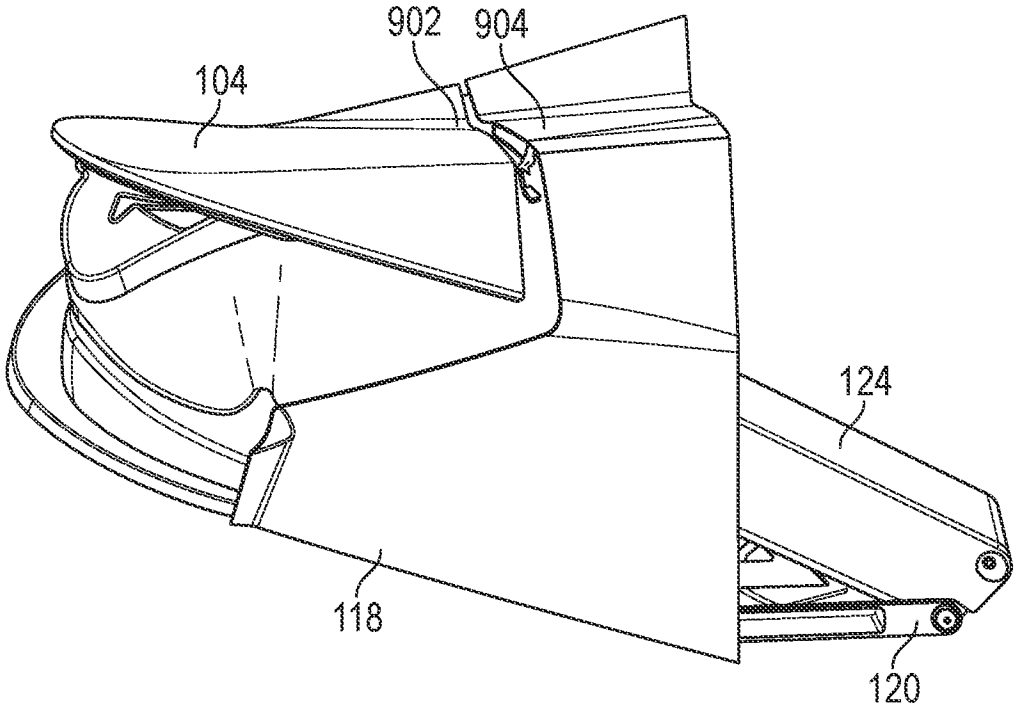

FIG. 9A

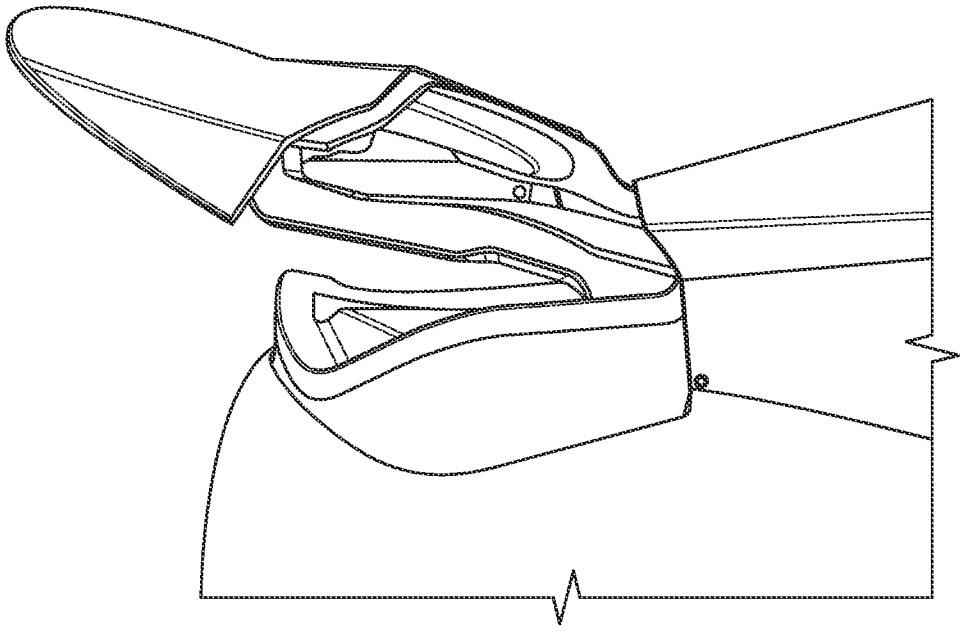

FIG. 9B

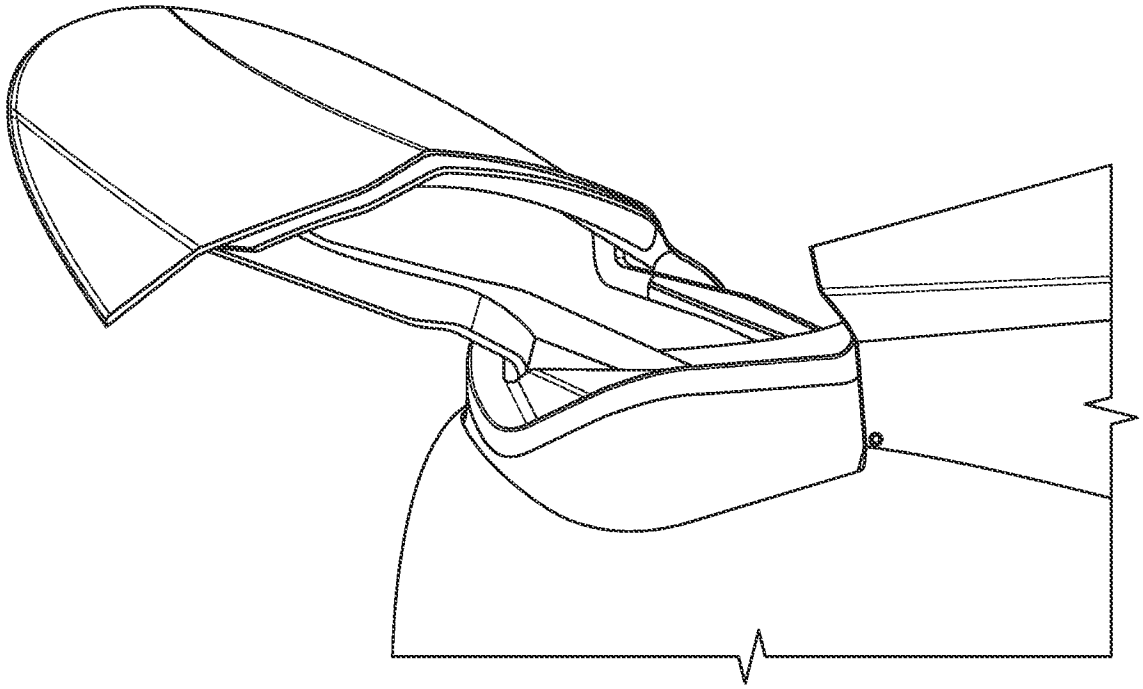

FIG. 9C

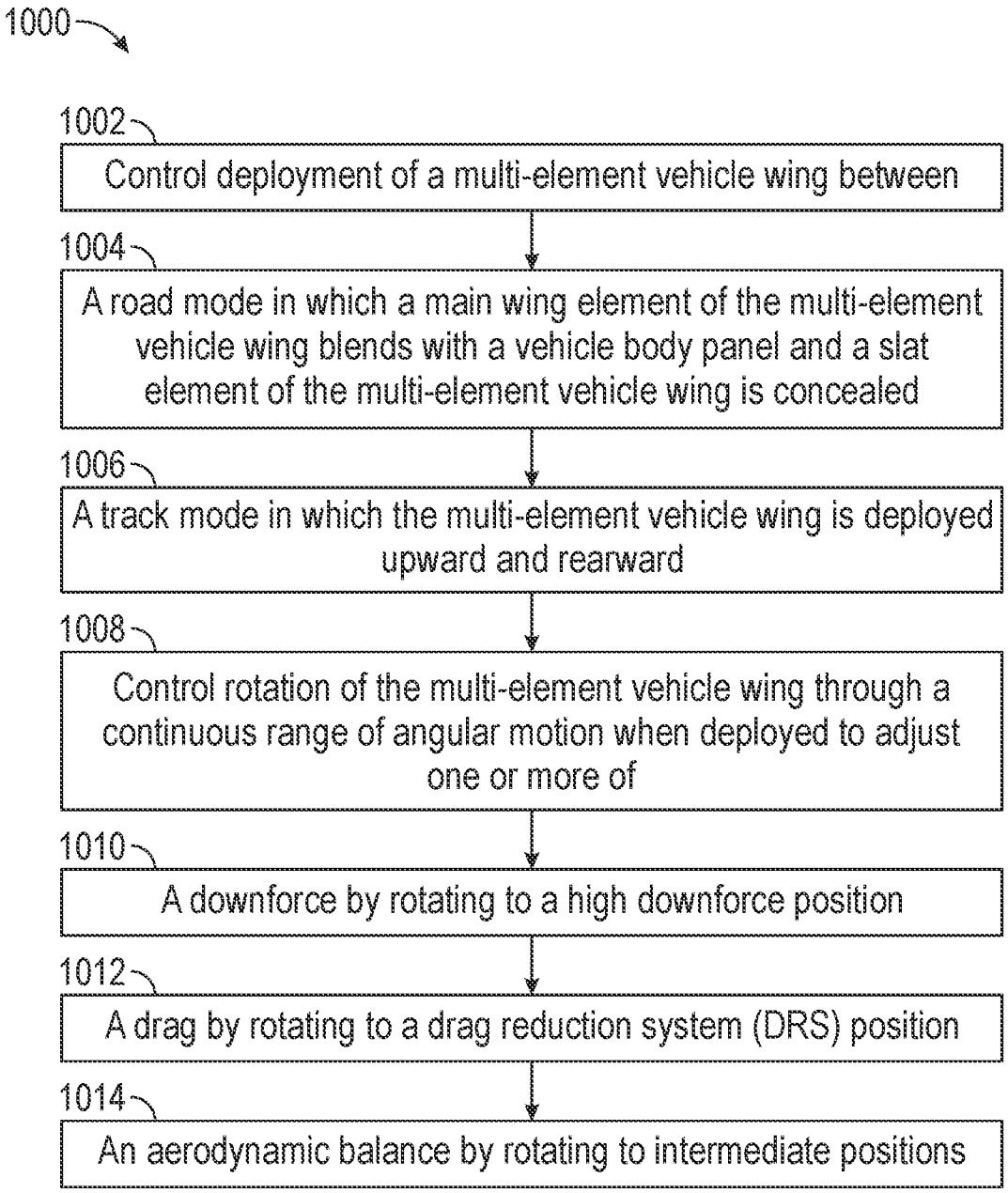
1000
1002
Control deployment of a multi-element vehicle wing between
1004
A road mode in which a main wing element of the multi-element vehicle wing blends with a vehicle body panel and a slat element of the multi-element vehicle wing is concealed
1006
A track mode in which the multi-element vehicle wing is deployed upward and rearward
1008
Control rotation of the multi-element vehicle wing through a continuous range of angular motion when deployed to adjust one or more of
1010
A downforce by rotating to a high downforce position
1012
A drag by rotating to a drag reduction system (DRS) position
1014
An aerodynamic balance by rotating to intermediate positions

FIG. 10