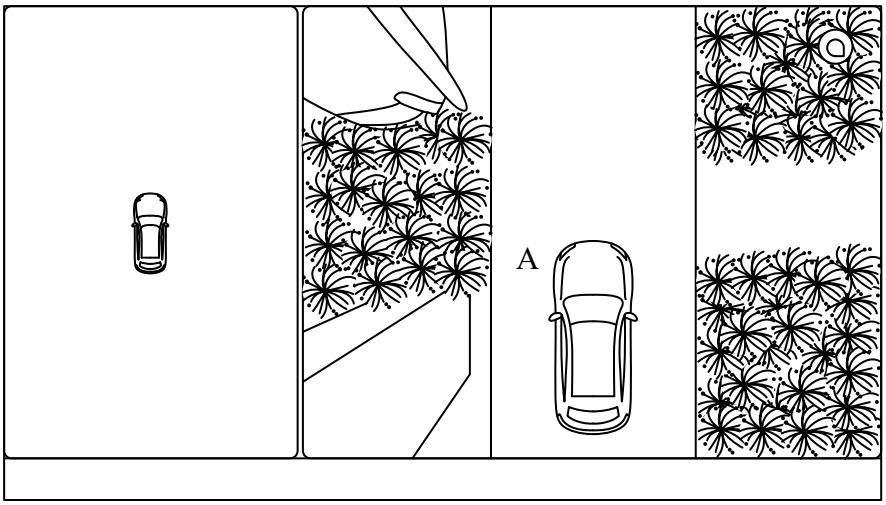

A

FIG. 1

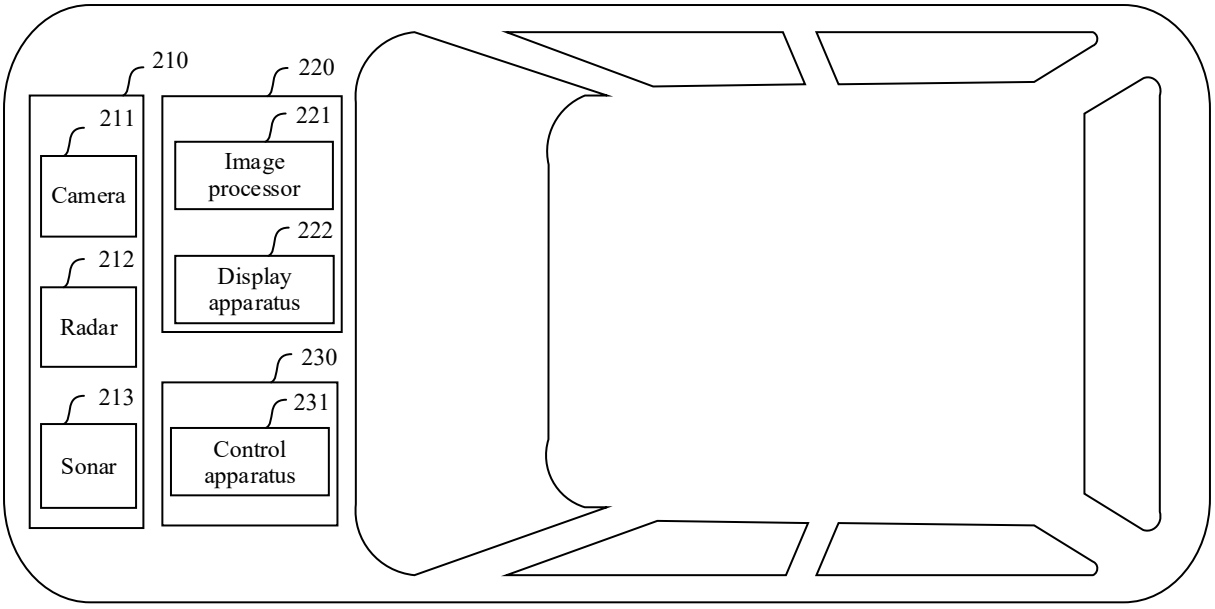

210
211
Camera
212
Radar
213
Sonar
220
221
Image processor
222
Display apparatus
230
231
Control apparatus

FIG. 2

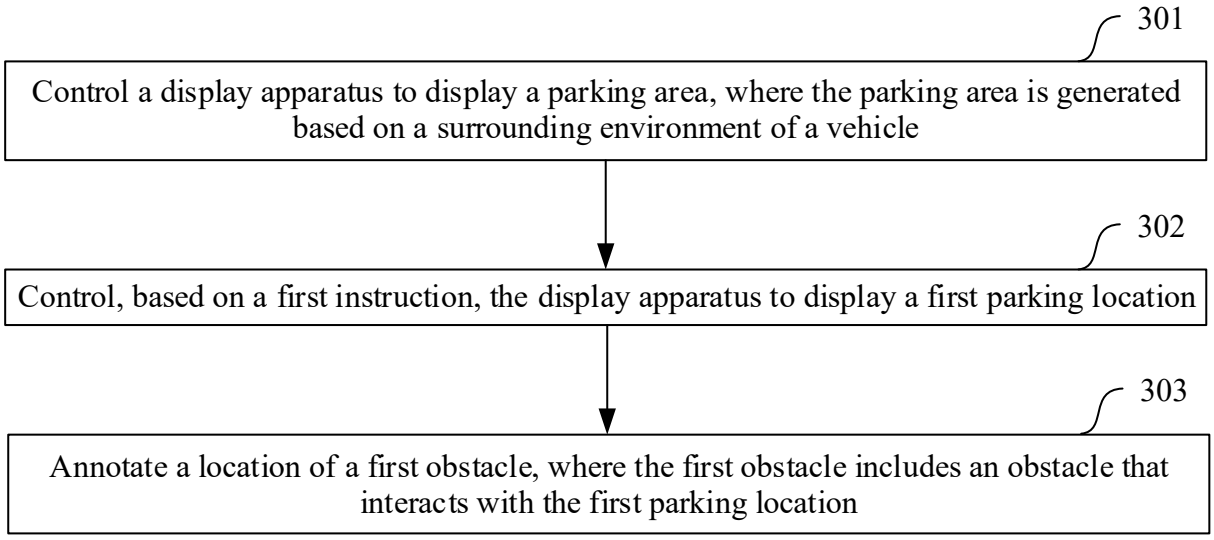

301
Control a display apparatus to display a parking area, where the parking area is generated based on a surrounding environment of a vehicle
302
Control, based on a first instruction, the display apparatus to display a first parking location
303
Annotate a location of a first obstacle, where the first obstacle includes an obstacle that interacts with the first parking location

FIG. 3

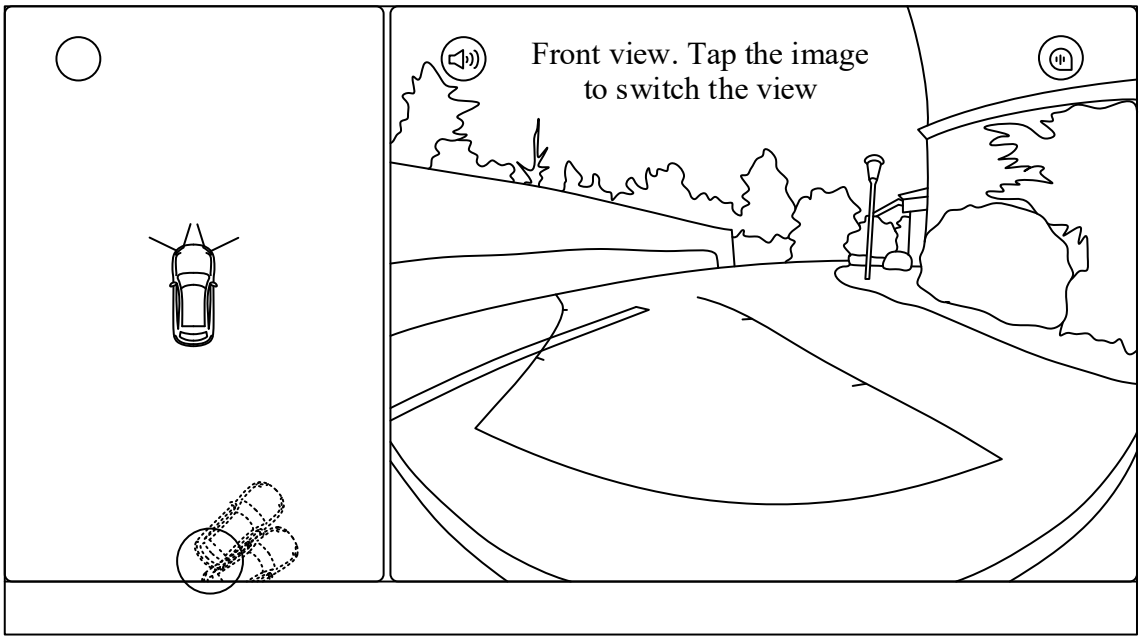

Front view. Tap the image to switch the view

FIG. 4a

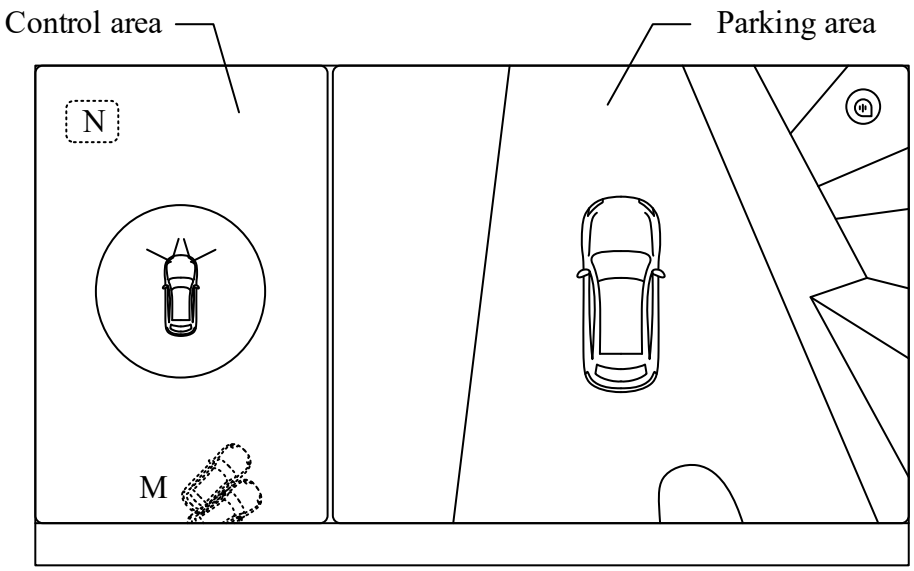

Control area
Parking area
N
M

FIG. 4b

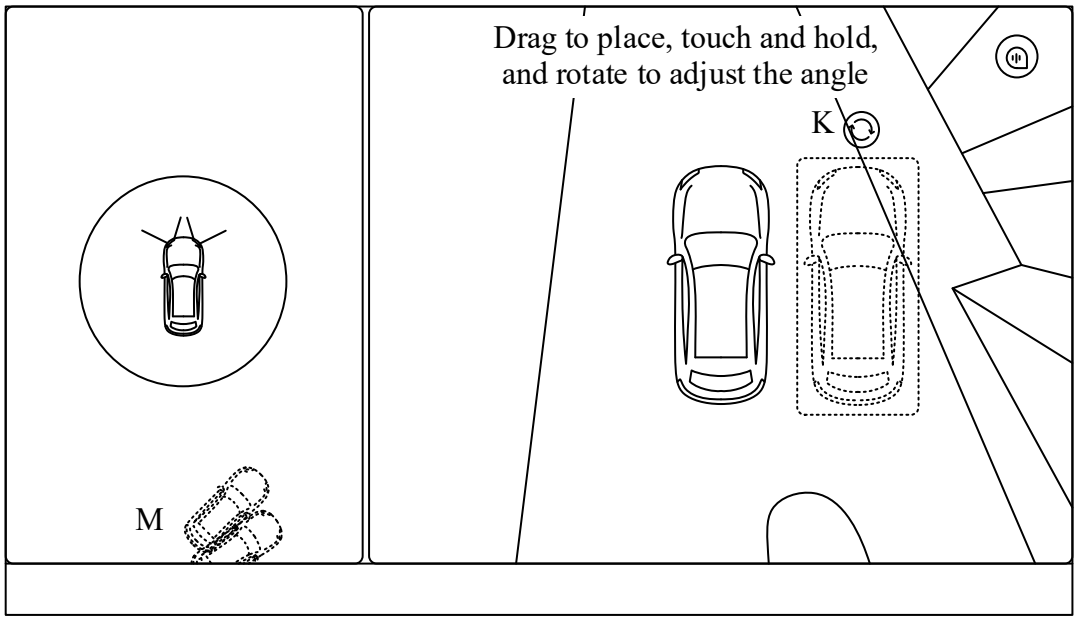

Drag to place, touch and hold,
and rotate to adjust the angle
K
M

FIG. 5a

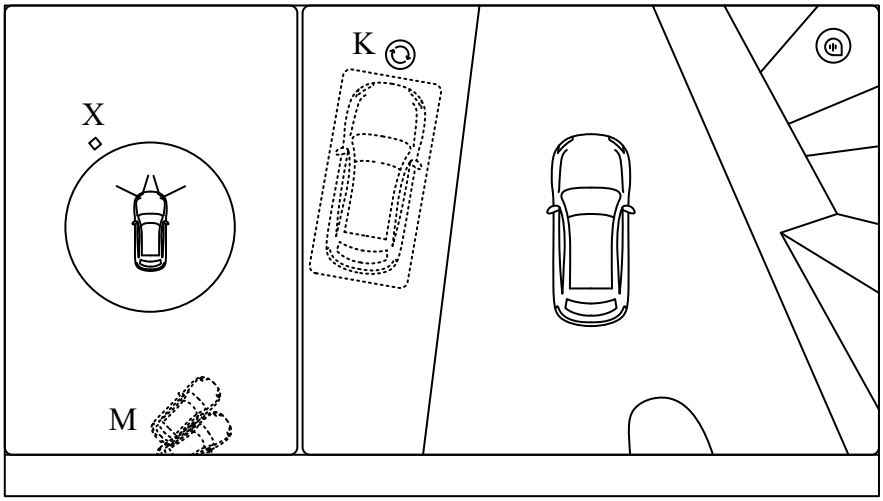


FIG. 5b

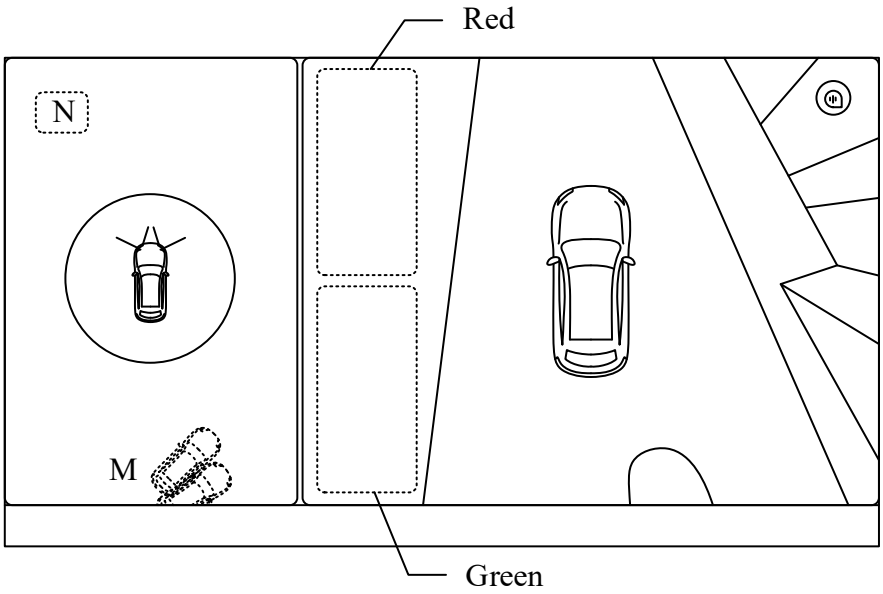


FIG. 6a

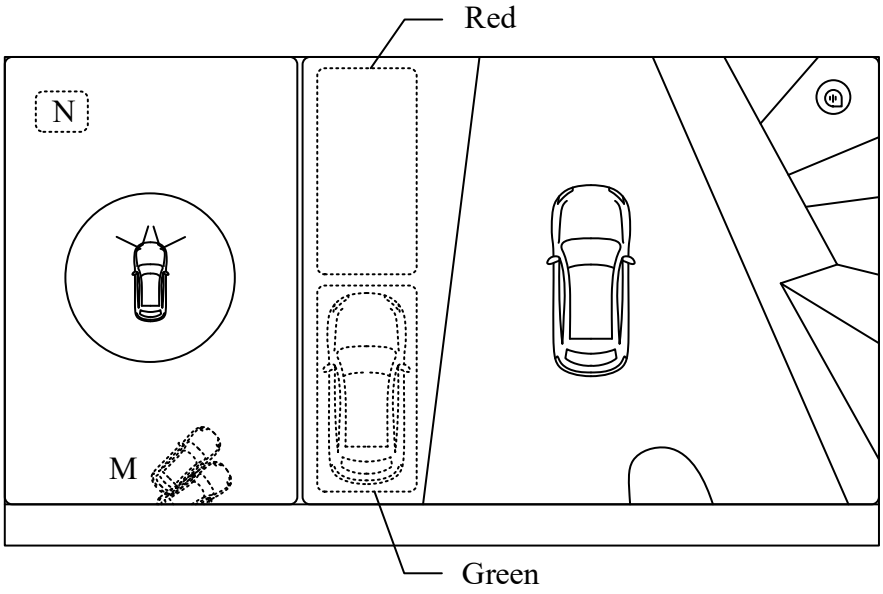


FIG. 6b

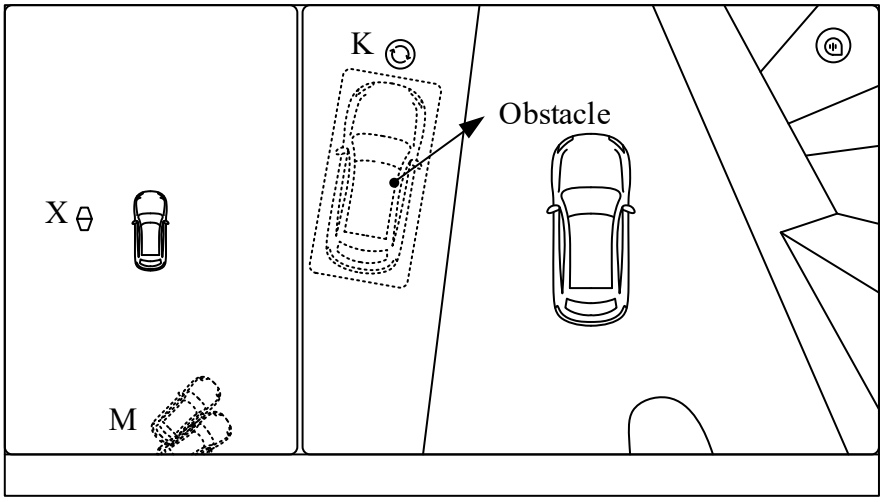


FIG. 7a

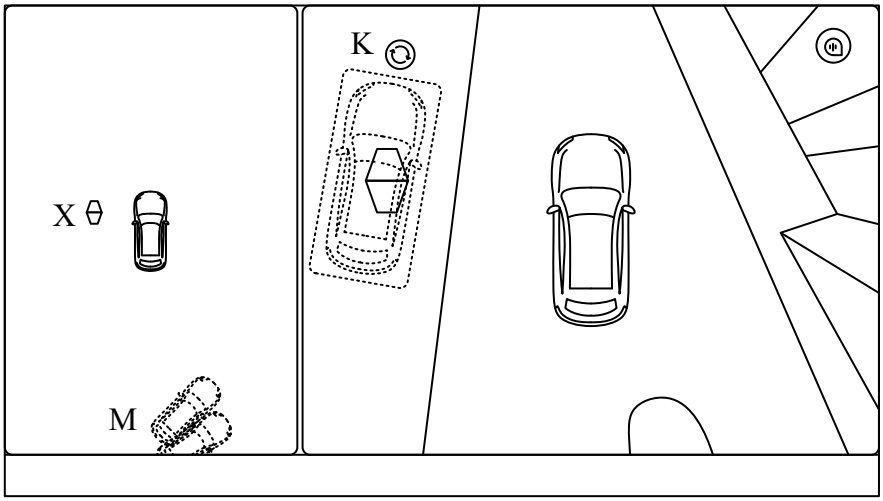


FIG. 7b

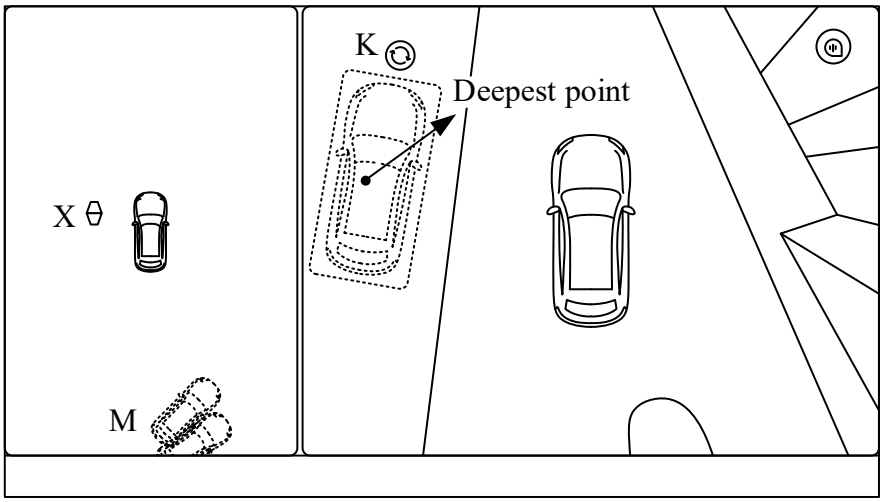


FIG. 7c

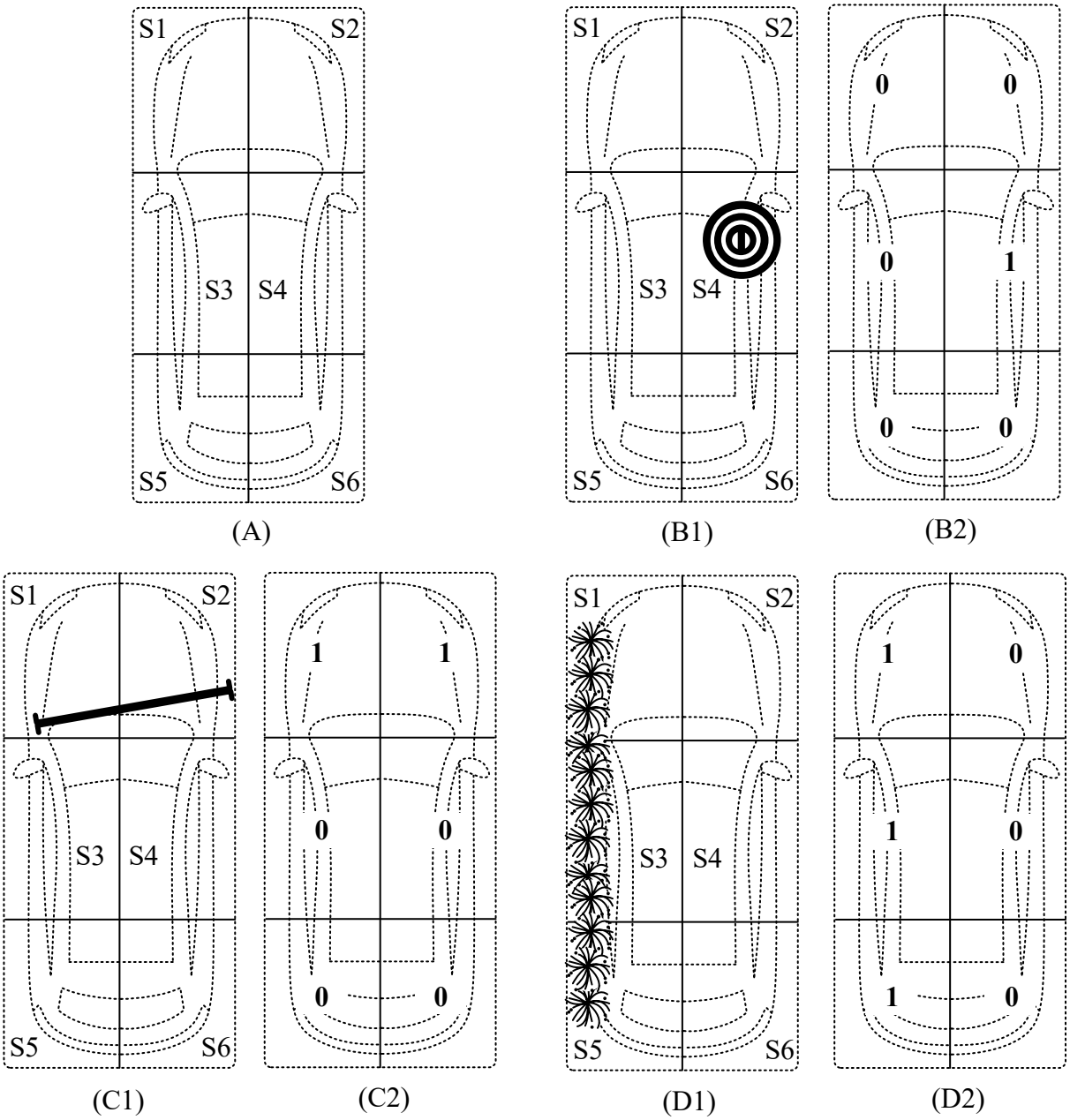


FIG. 8

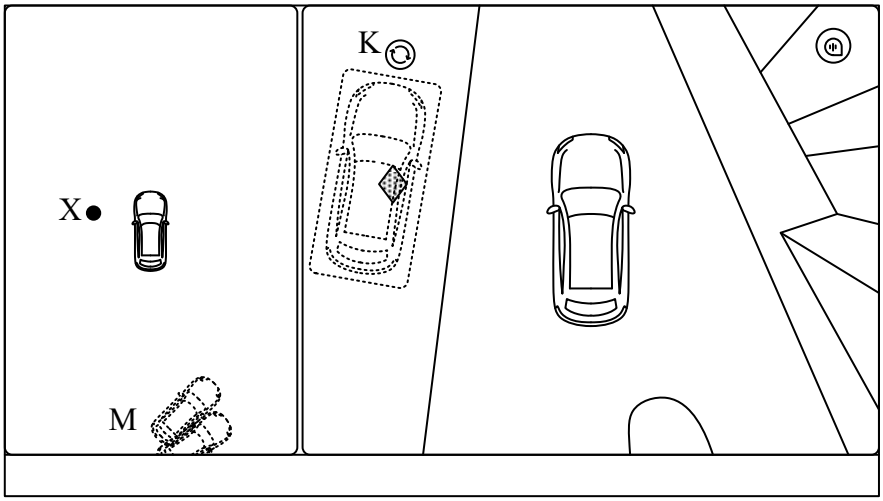


FIG. 9a

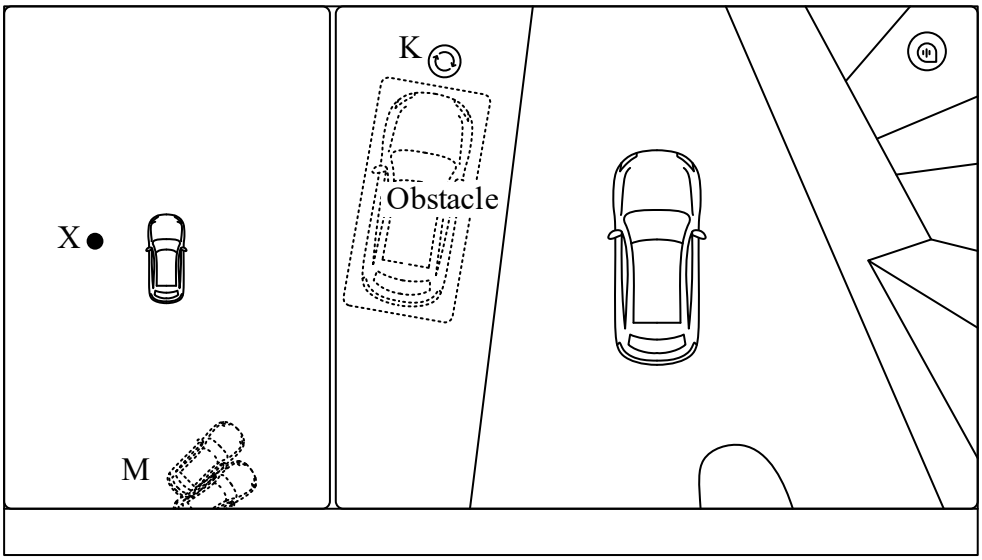


FIG. 9b

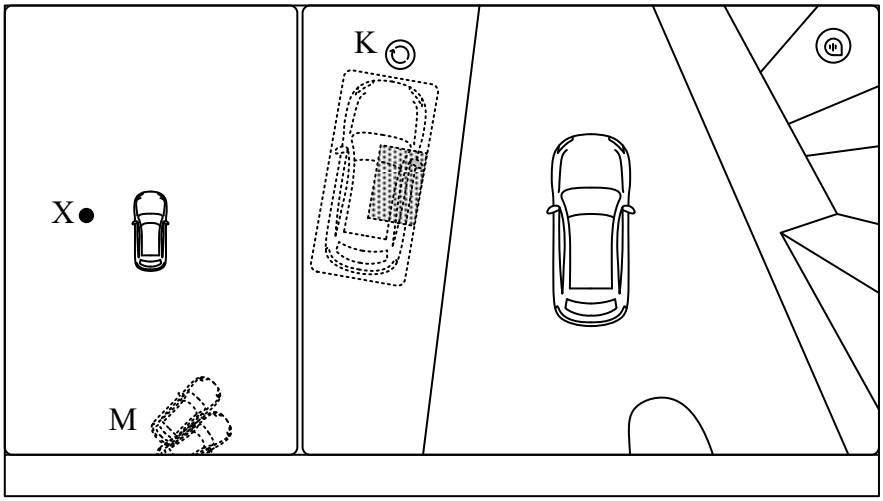


FIG. 9c

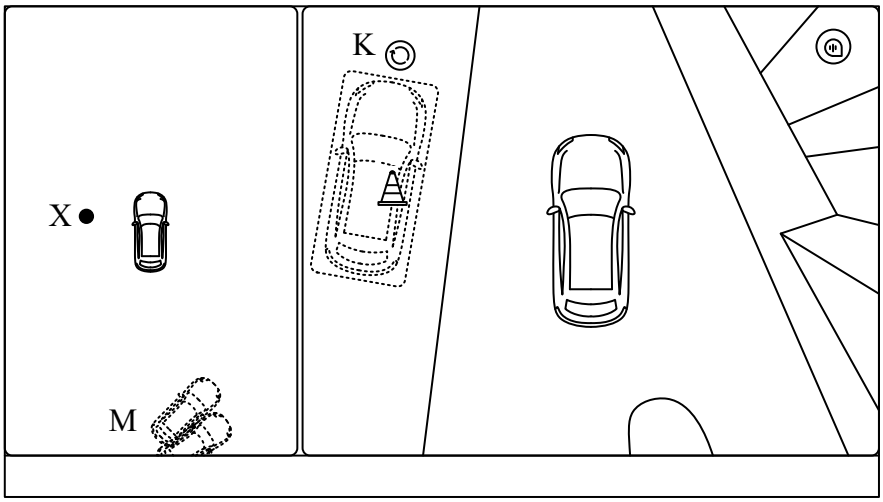


FIG. 9d

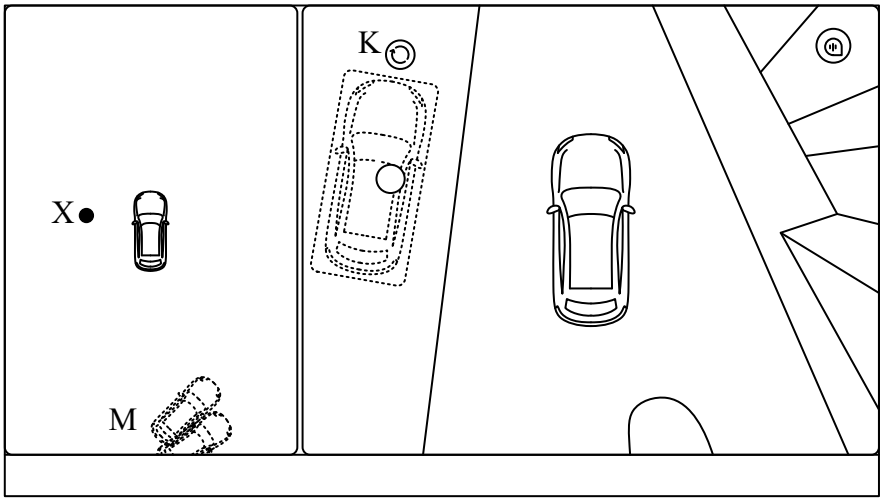


FIG. 9e

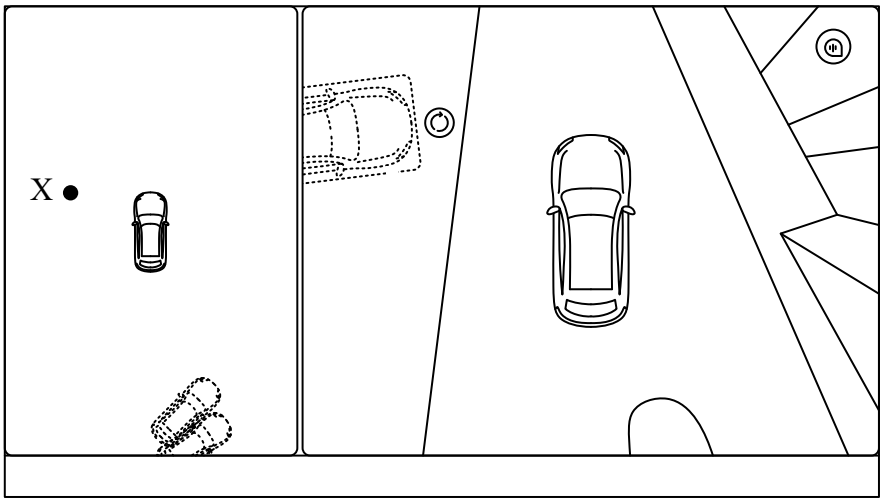


FIG. 10a

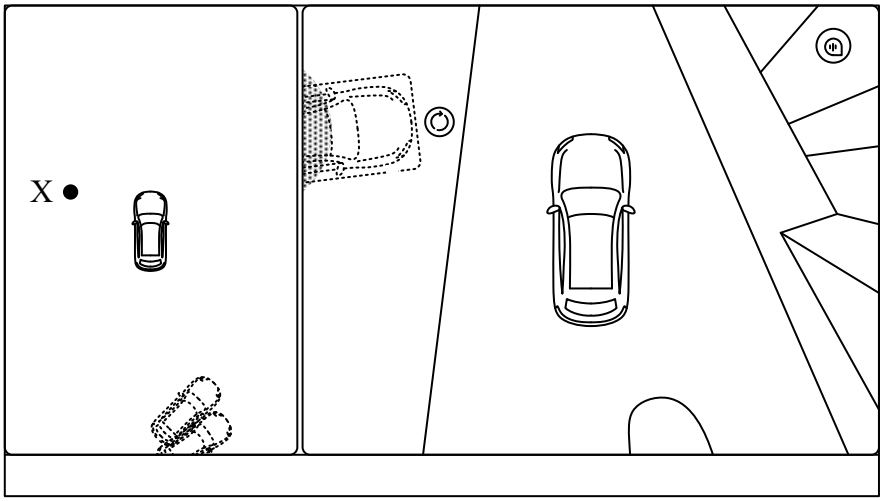


FIG. 10b

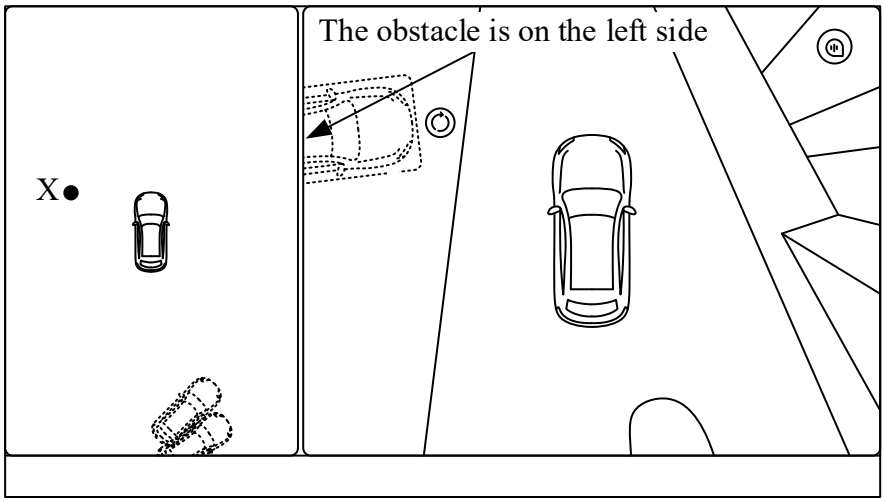


FIG. 10c

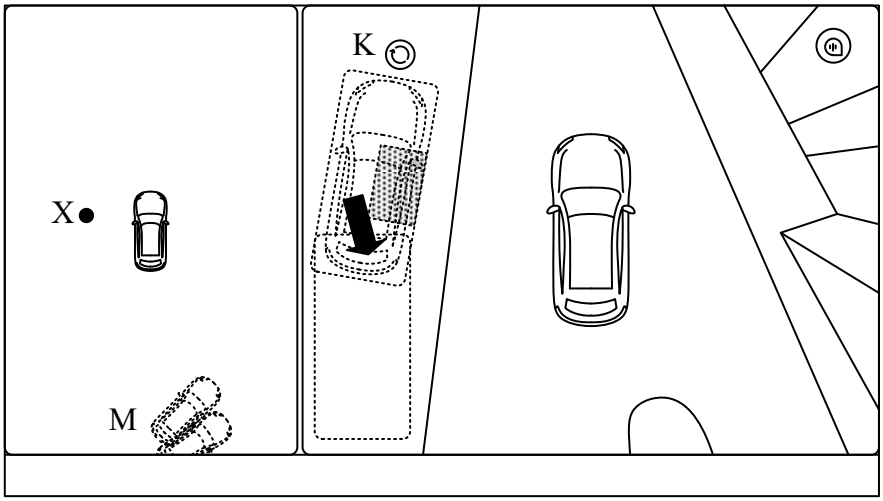


FIG. 11a

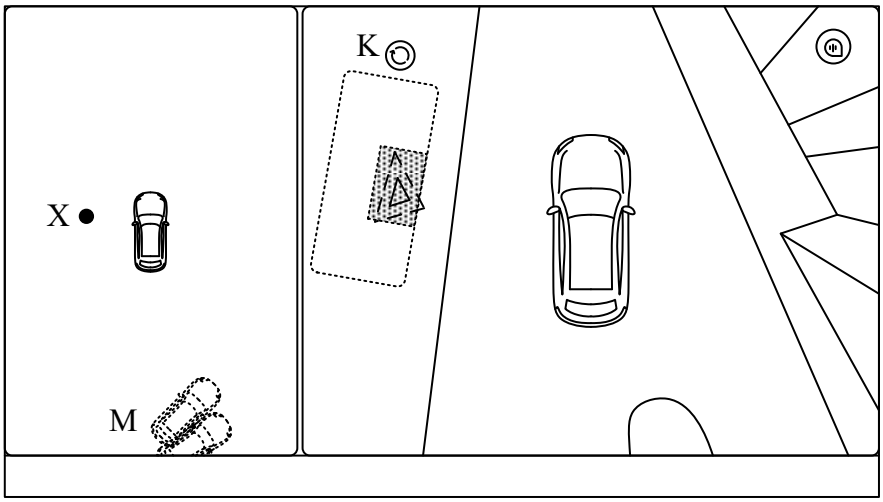
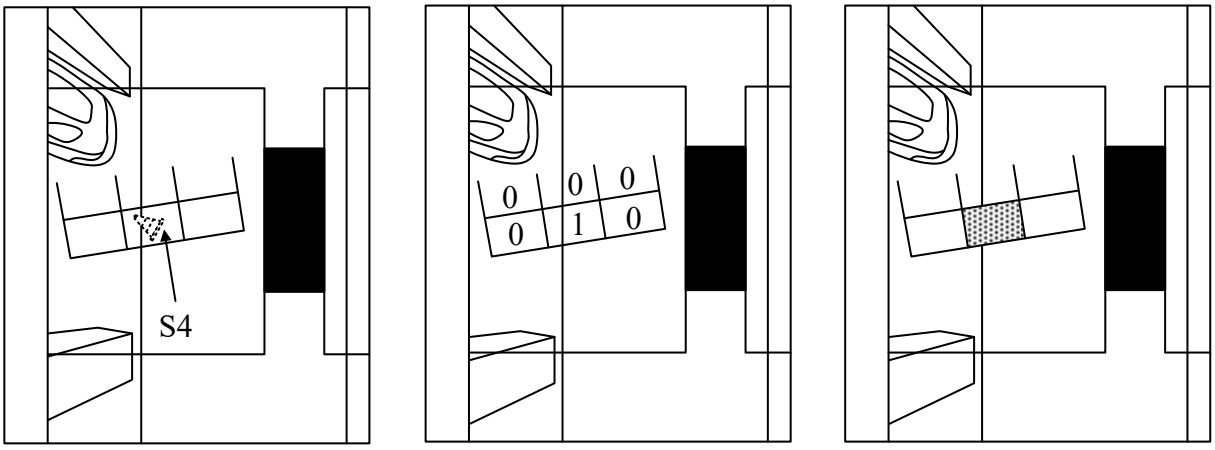
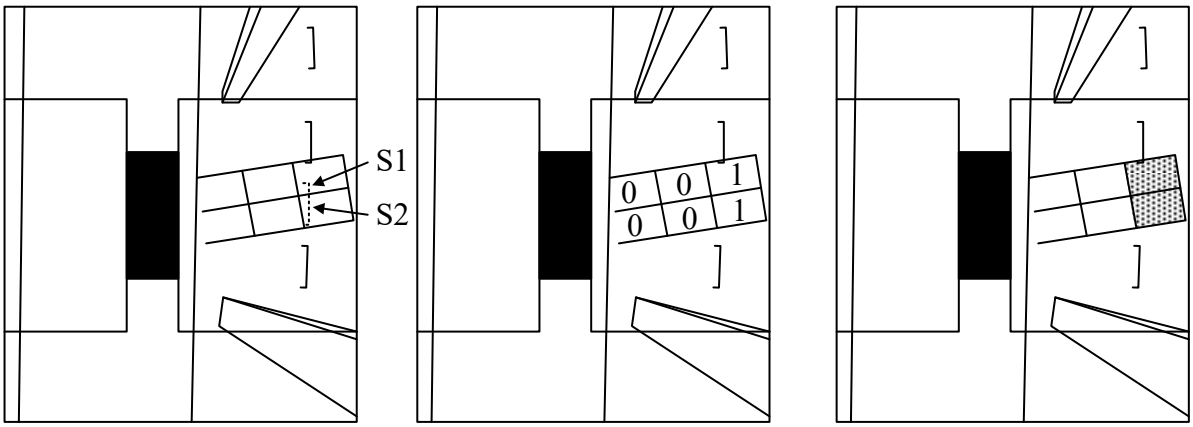


FIG. 11b



(A) (B) (C)

FIG. 12a



(A) (B) (C)

FIG. 12b

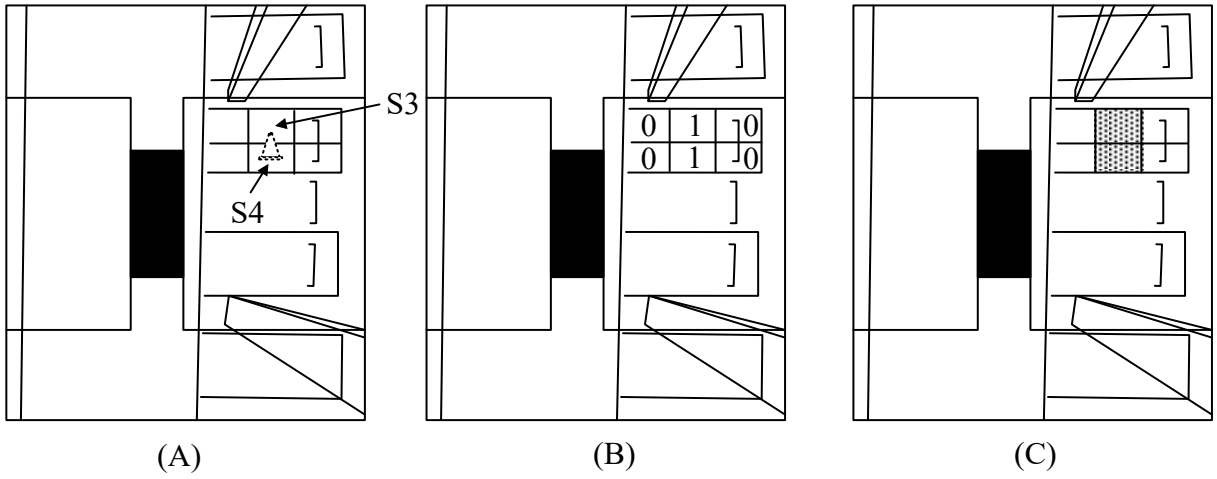


FIG. 12c

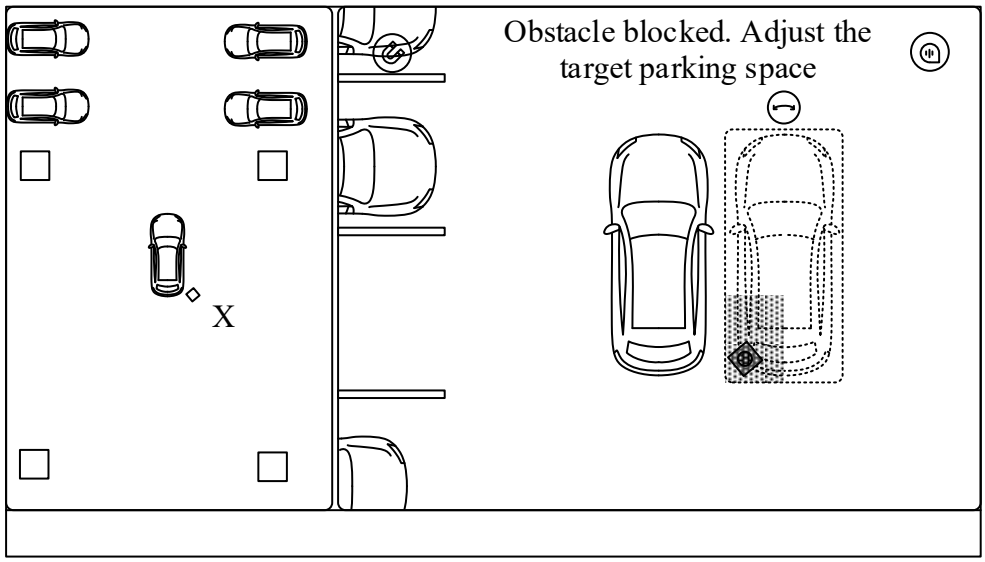


FIG. 12d

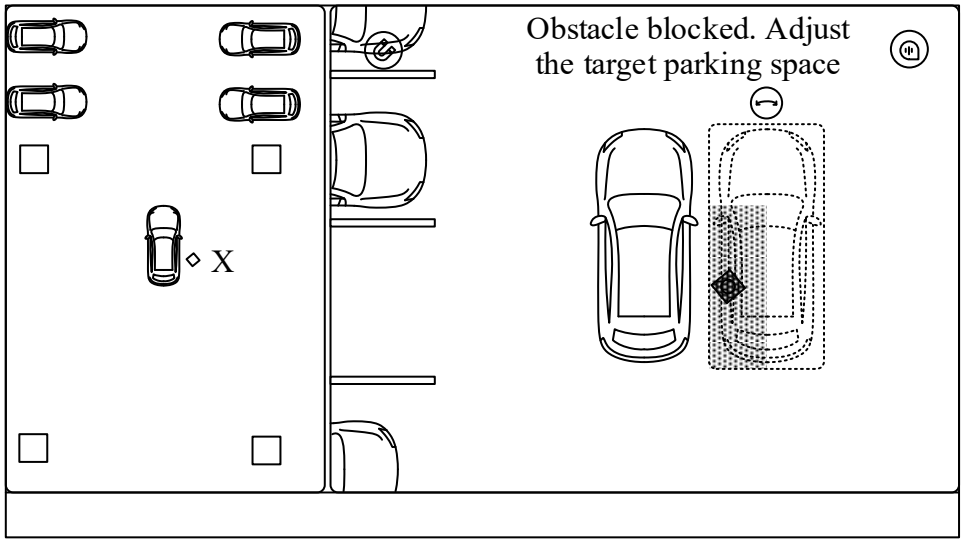


FIG. 12e

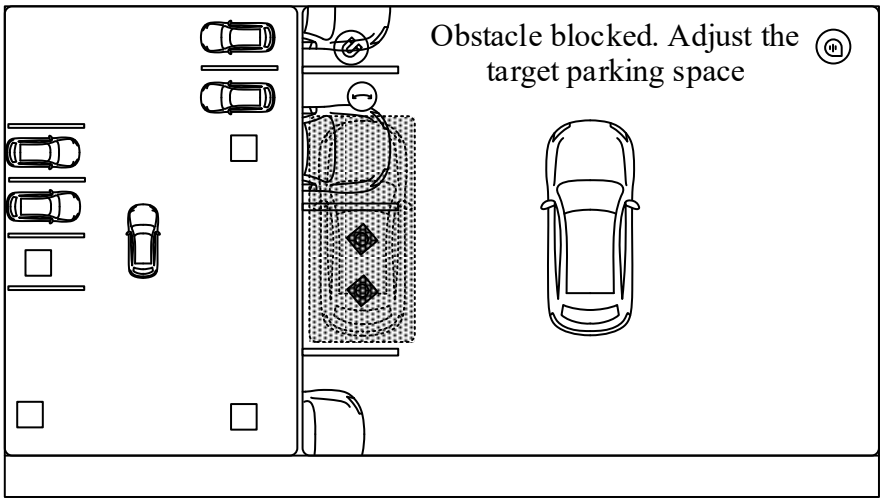


FIG. 12f

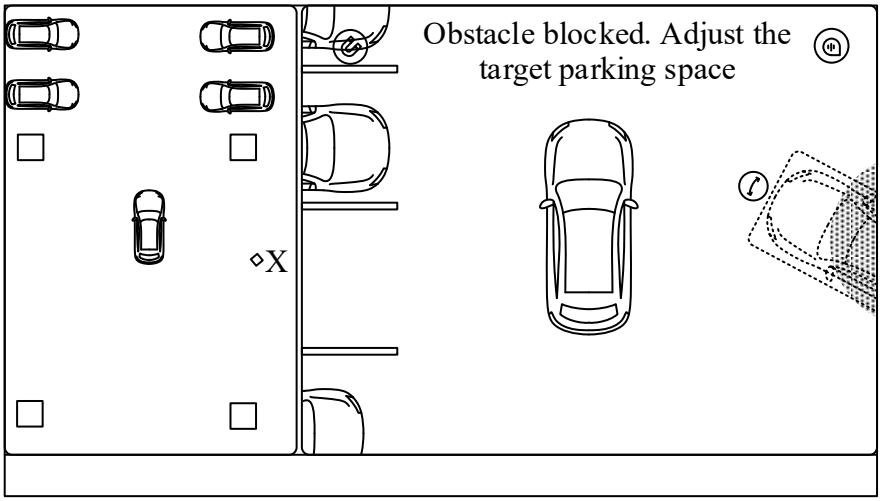


FIG. 12g

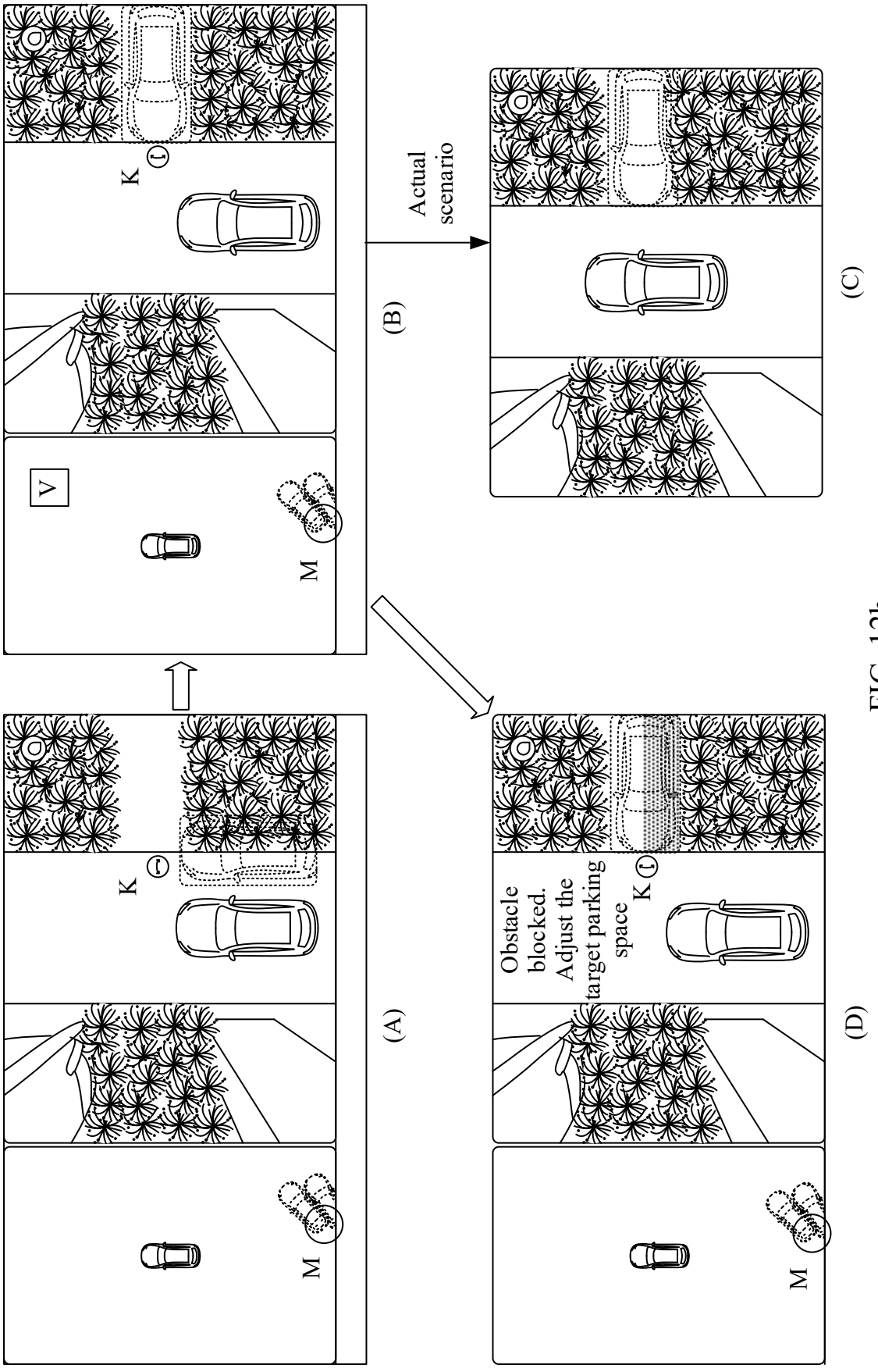

(A)
(B)
(C)
(D)
Actual scenario
K
M
V
Obstacle blocked. Adjust the target parking space

FIG. 12h

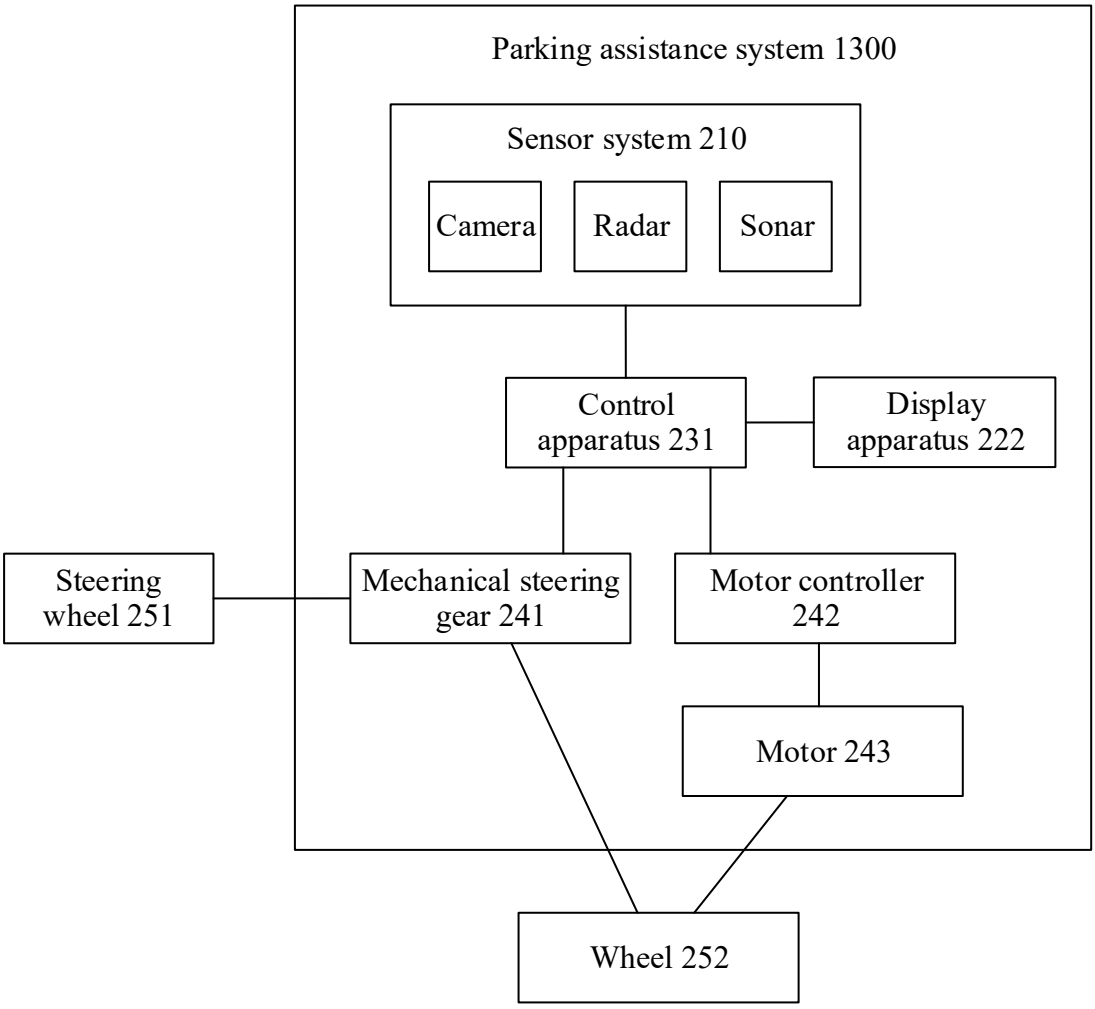

Parking assistance system 1300
Sensor system 210
Camera
Radar
Sonar
Control apparatus 231
Display apparatus 222
Steering wheel 251
Mechanical steering gear 241
Motor controller 242
Motor 243
Wheel 252

FIG. 13

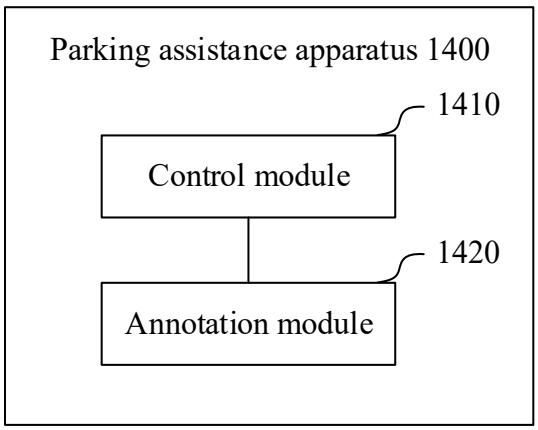

Parking assistance apparatus 1400
1410
Control module
1420
Annotation module

FIG. 14

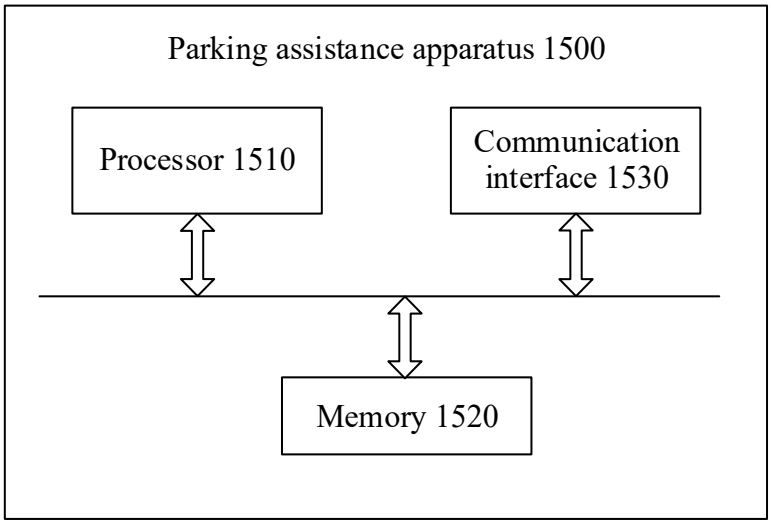

Parking assistance apparatus 1500
Processor 1510
Communication interface 1530
Memory 1520

FIG. 15