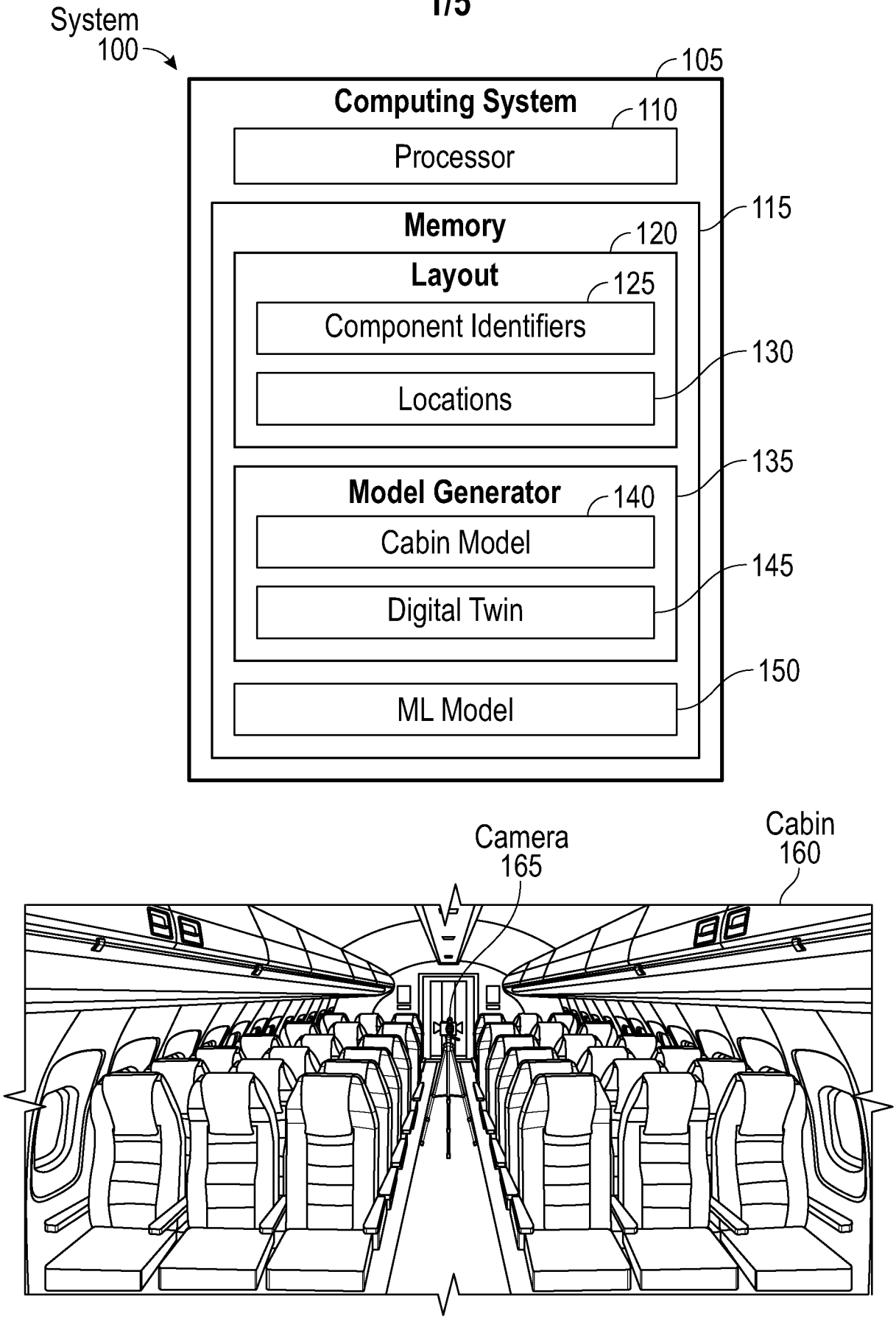

System
100
105
Computing System
110
Processor
115
Memory
120
Layout
125
Component Identifiers
130
Locations
135
Model Generator
140
Cabin Model
145
Digital Twin
150
ML Model
Camera
165
Cabin
160

FIG. 1

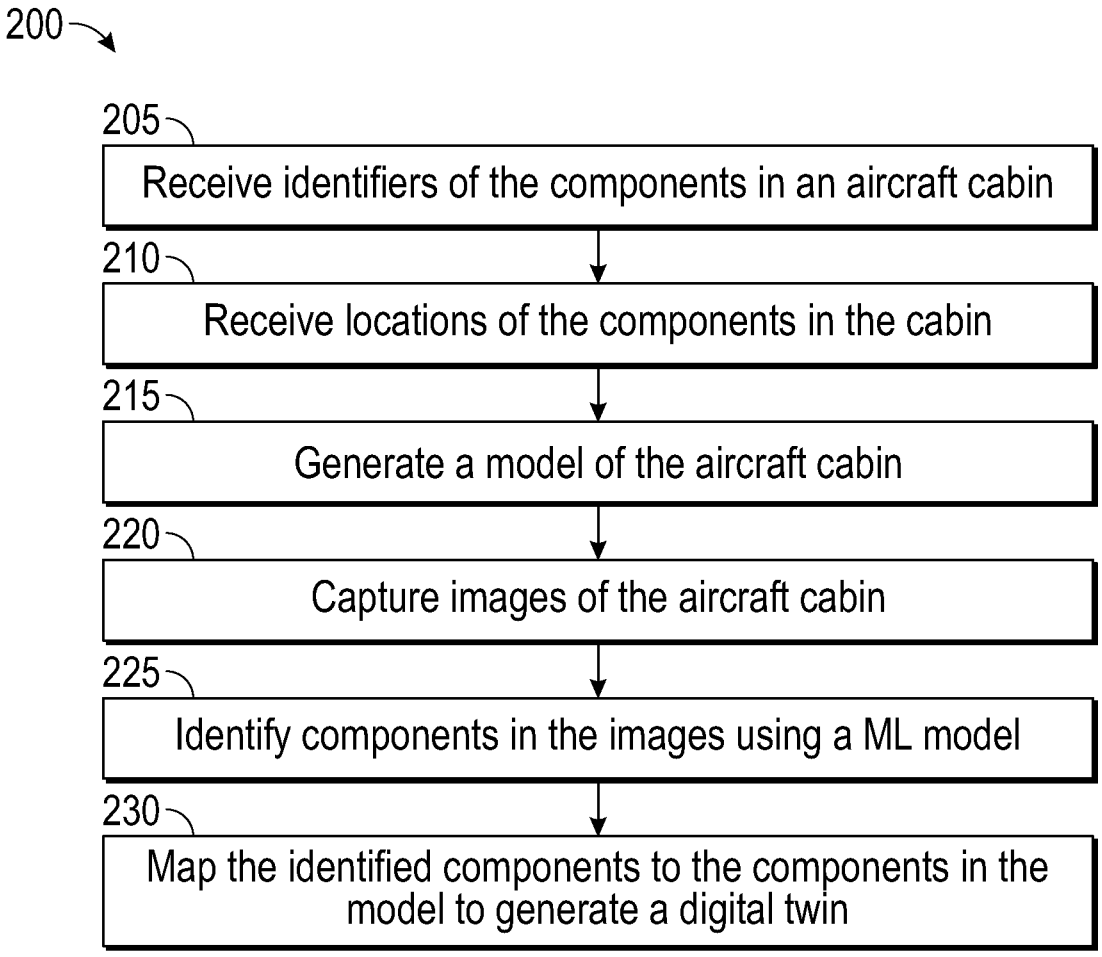

200
205
Receive identifiers of the components in an aircraft cabin
210
Receive locations of the components in the cabin
215
Generate a model of the aircraft cabin
220
Capture images of the aircraft cabin
225
Identify components in the images using a ML model
230
Map the identified components to the components in the model to generate a digital twin

FIG. 2

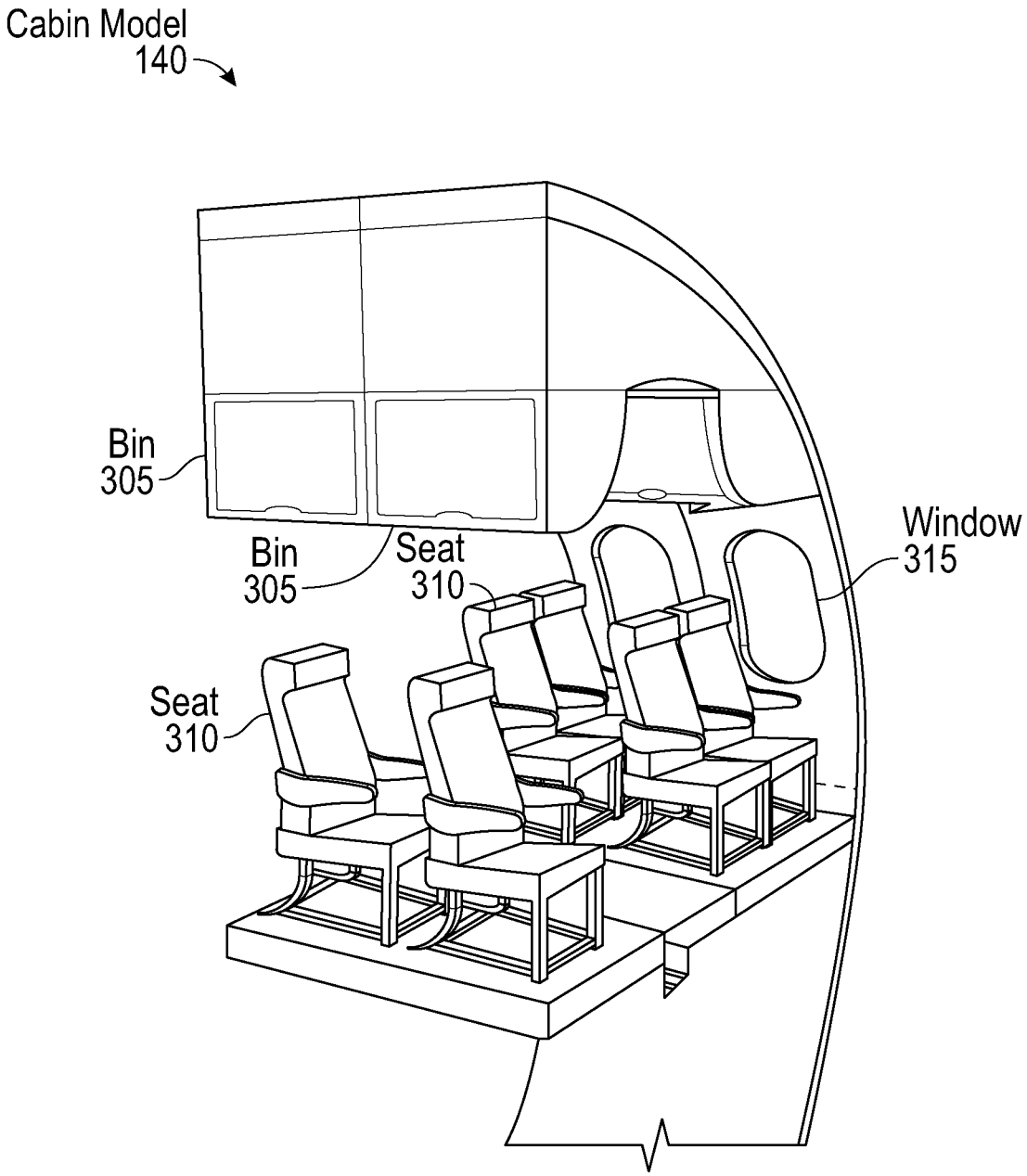


FIG. 3

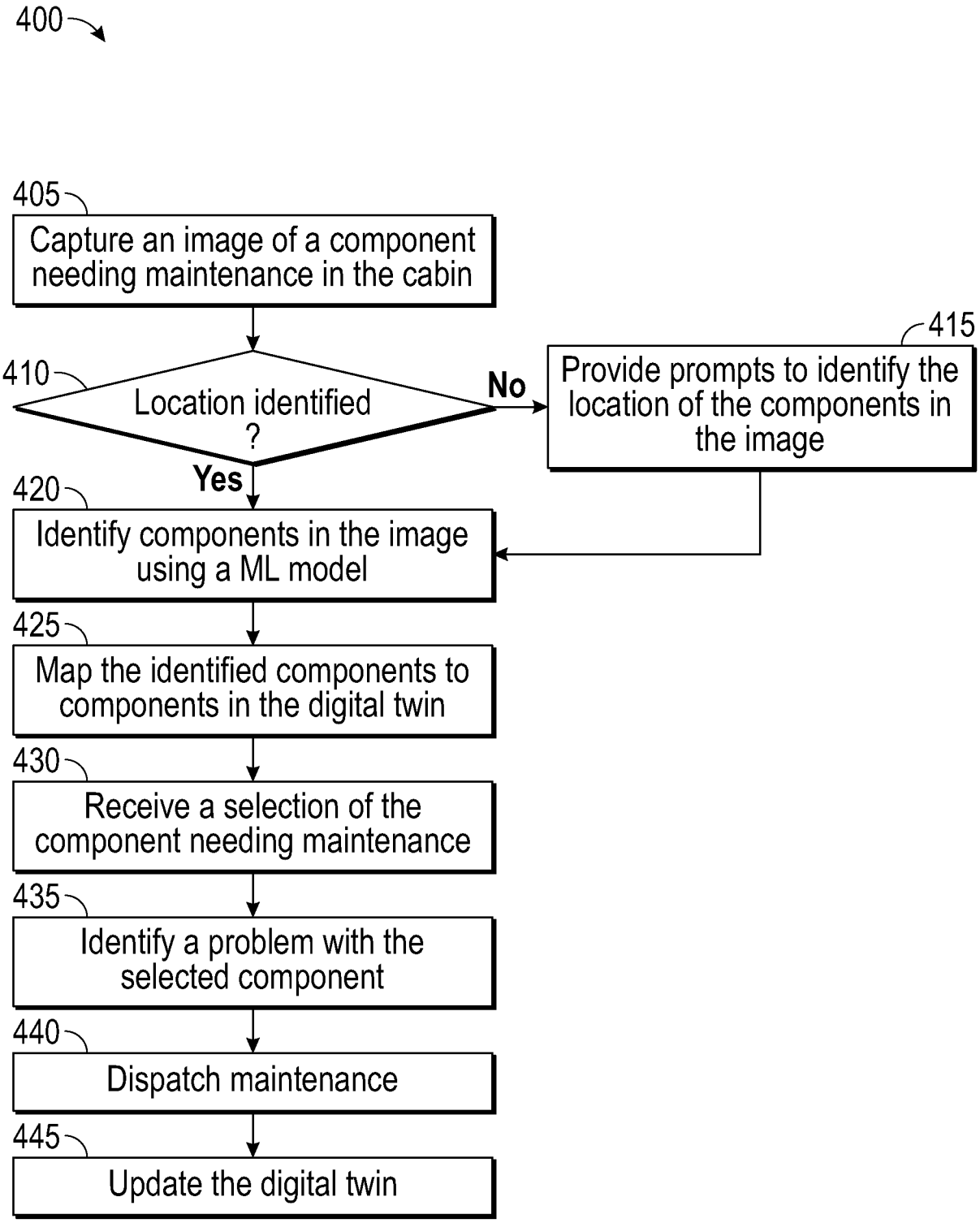

400
405
Capture an image of a component needing maintenance in the cabin
410
Location identified ?
No
415
Provide prompts to identify the location of the components in the image
Yes
420
Identify components in the image using a ML model
425
Map the identified components to components in the digital twin
430
Receive a selection of the component needing maintenance
435
Identify a problem with the selected component
440
Dispatch maintenance
445
Update the digital twin

FIG. 4

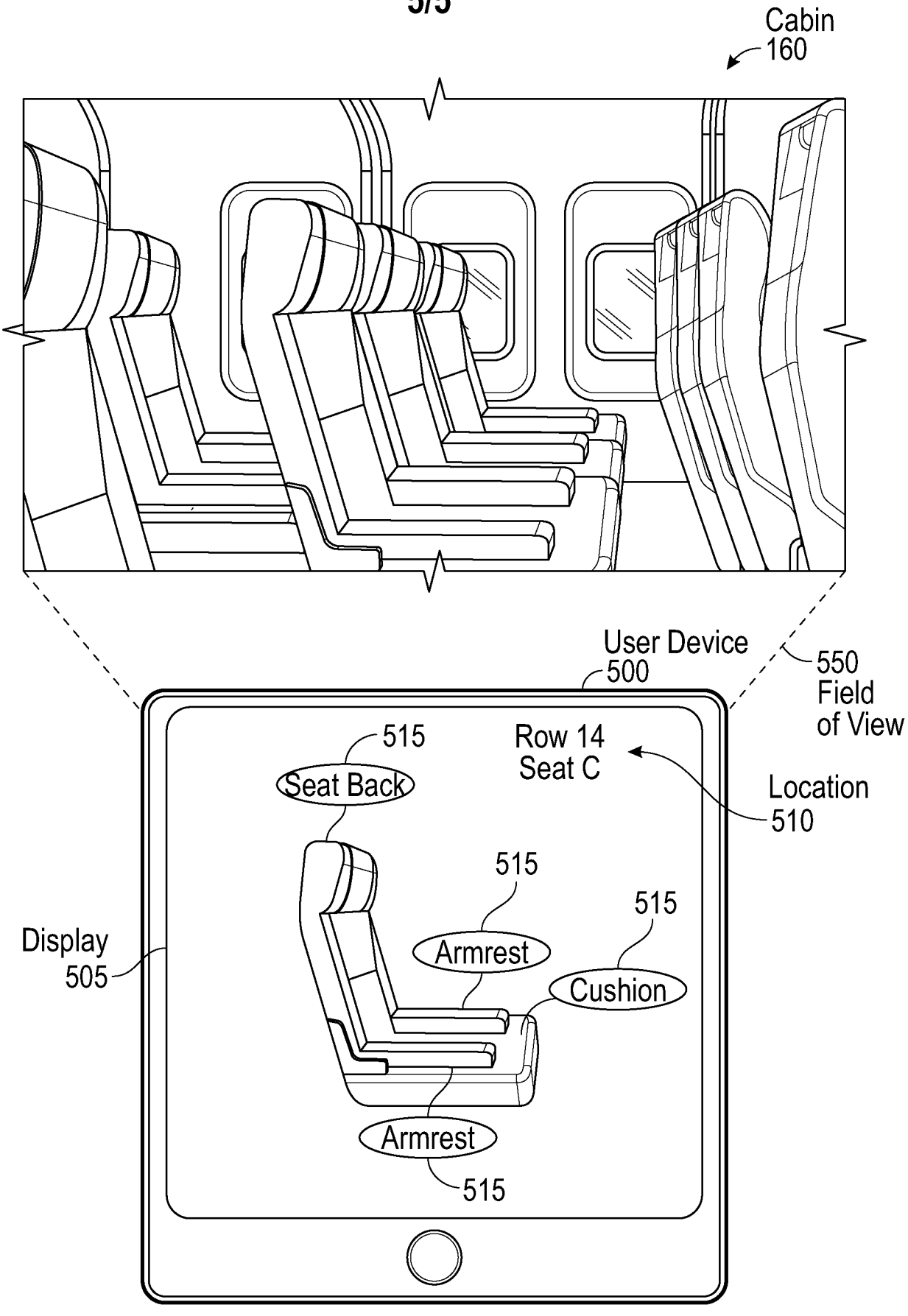

Cabin
160
User Device
500
550
Field
of View
515
Seat Back
Row 14
Seat C
Location
510
515
515
Armrest
Cushion
Display
505
Armrest
515

FIG. 5