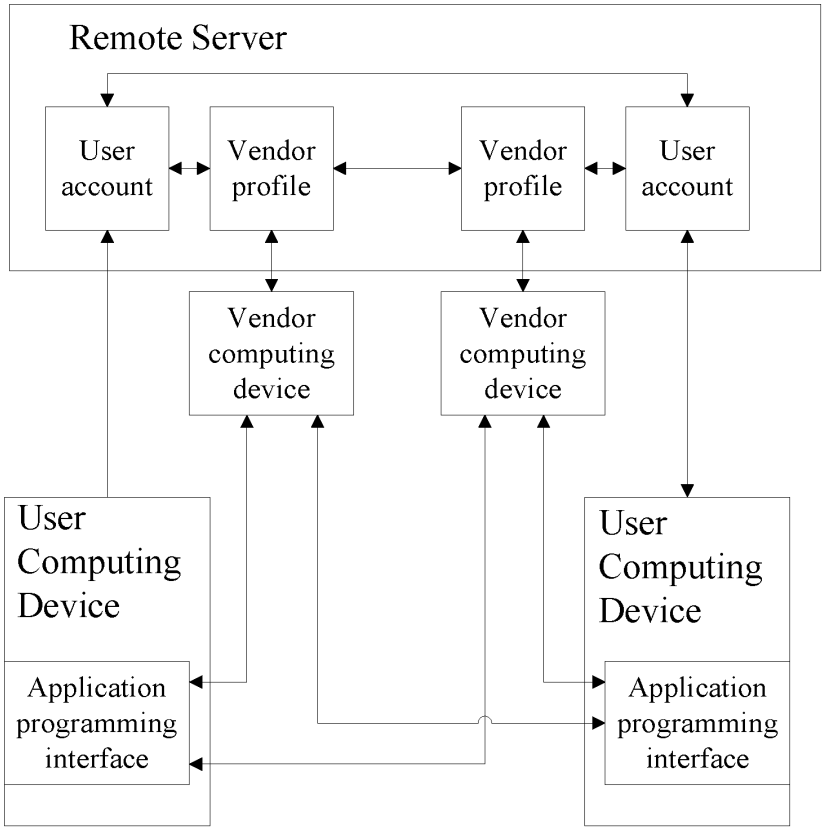

Remote Server
User account
Vendor profile
Vendor profile
User account
Vendor computing device
Vendor computing device
User Computing Device
Application programming interface
User Computing Device
Application programming interface

FIG. 1

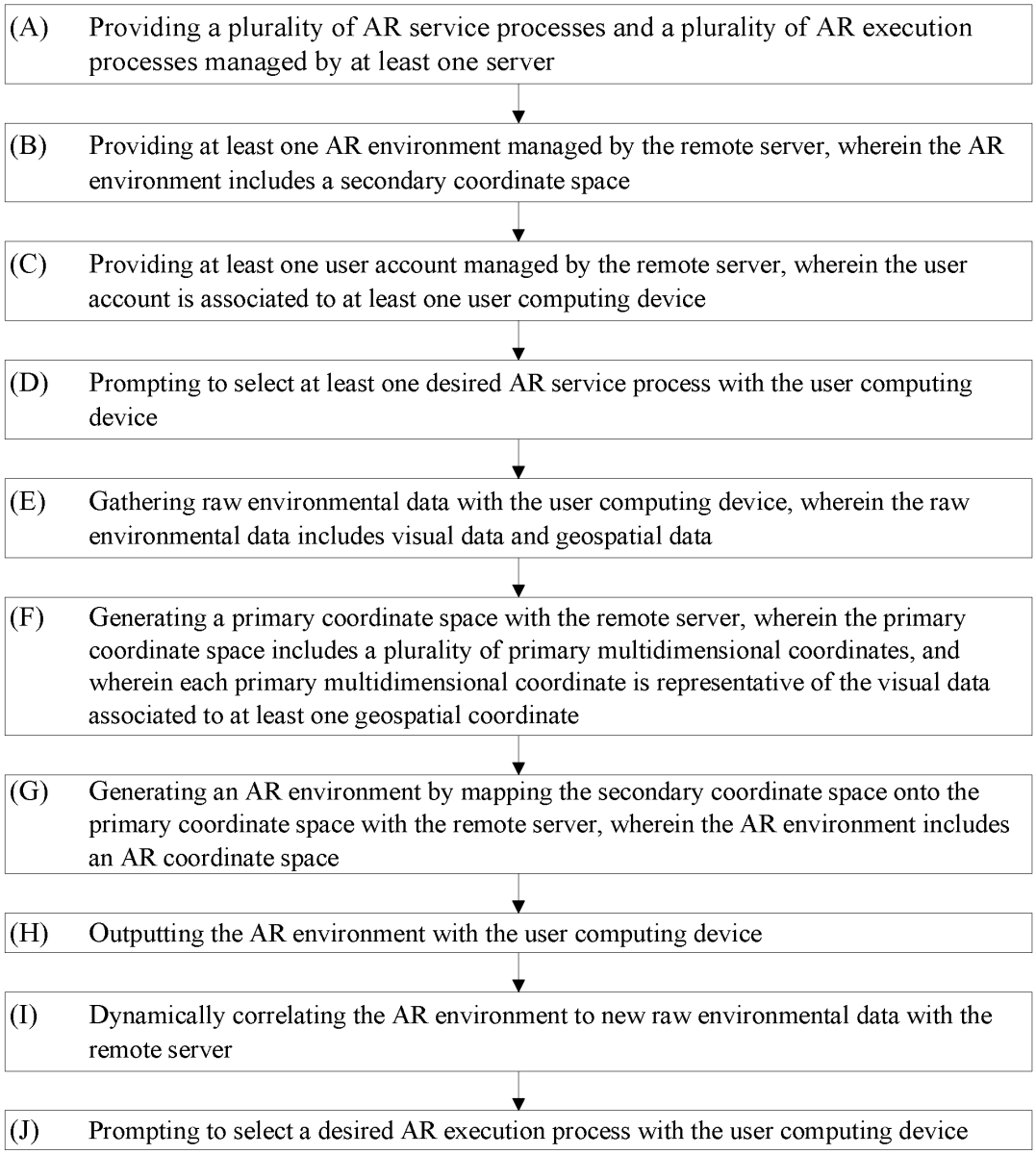
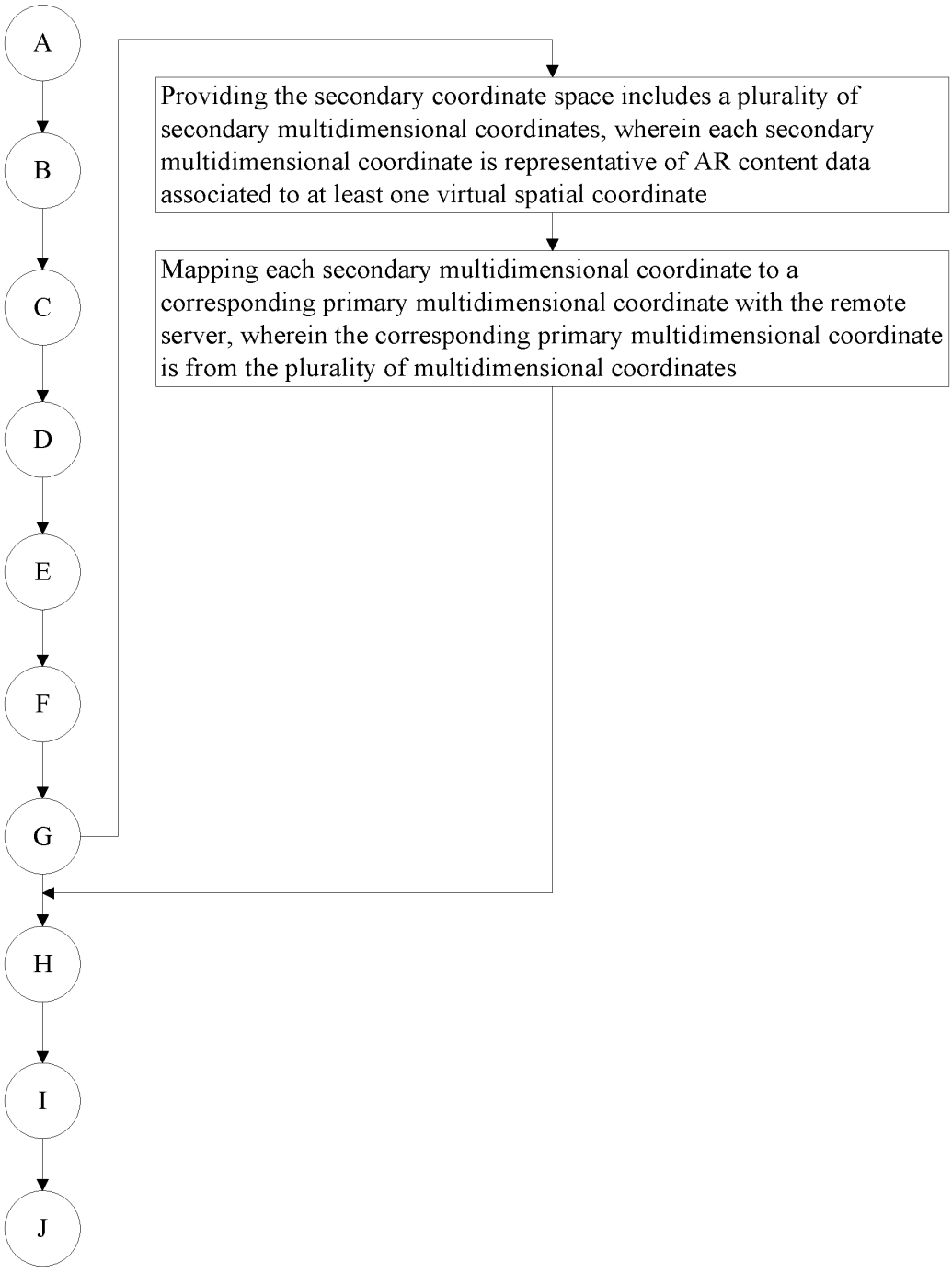

(A) Providing a plurality of AR service processes and a plurality of AR execution processes managed by at least one server
(B) Providing at least one AR environment managed by the remote server, wherein the AR environment includes a secondary coordinate space
(C) Providing at least one user account managed by the remote server, wherein the user account is associated to at least one user computing device
(D) Prompting to select at least one desired AR service process with the user computing device
(E) Gathering raw environmental data with the user computing device, wherein the raw environmental data includes visual data and geospatial data
(F) Generating a primary coordinate space with the remote server, wherein the primary coordinate space includes a plurality of primary multidimensional coordinates, and wherein each primary multidimensional coordinate is representative of the visual data associated to at least one geospatial coordinate
(G) Generating an AR environment by mapping the secondary coordinate space onto the primary coordinate space with the remote server, wherein the AR environment includes an AR coordinate space
(H) Outputting the AR environment with the user computing device
(I) Dynamically correlating the AR environment to new raw environmental data with the remote server
(J) Prompting to select a desired AR execution process with the user computing device

FIG. 2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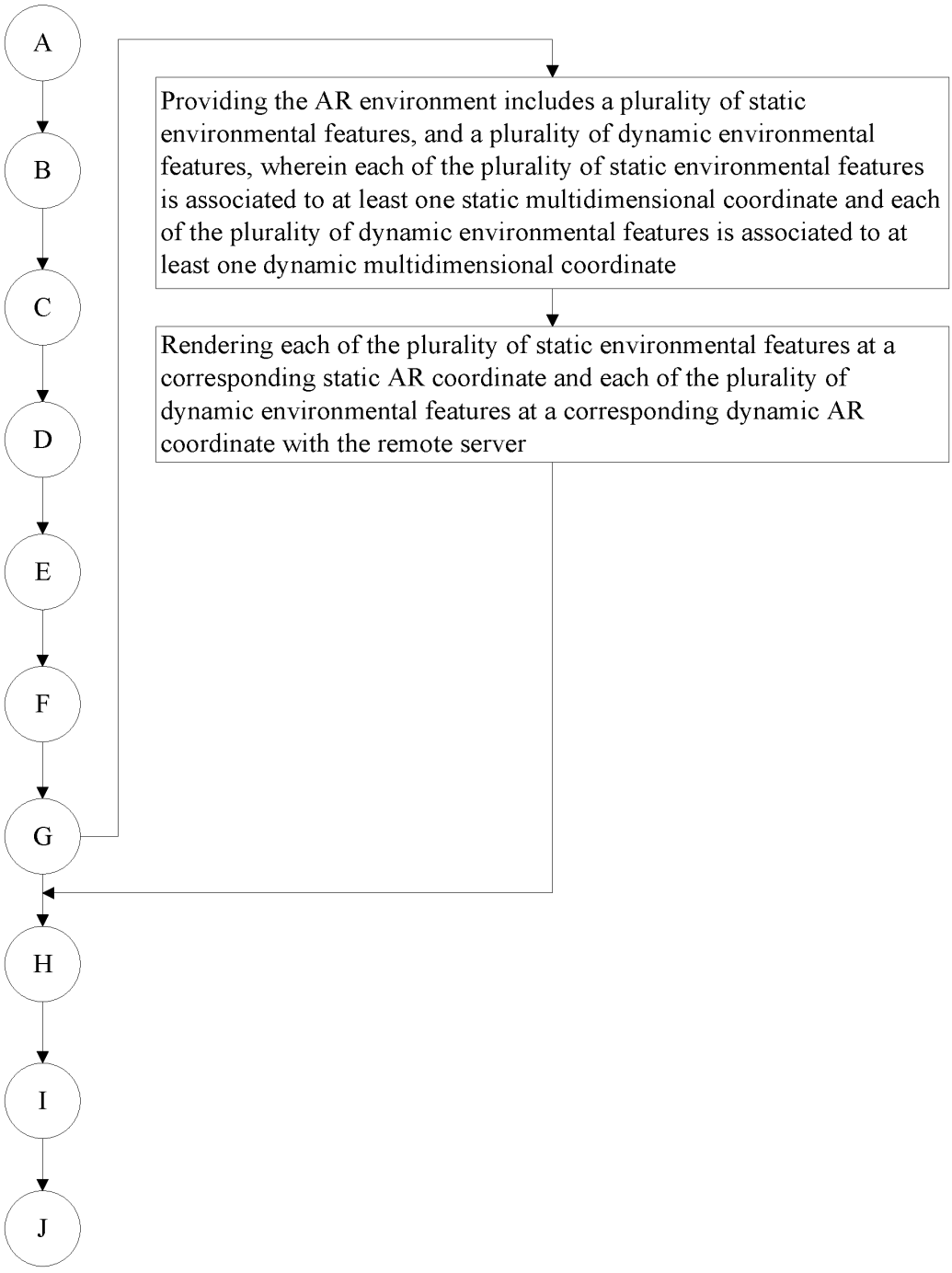
Providing the secondary coordinate space includes a plurality of secondary multidimensional coordinates, wherein each secondary multidimensional coordinate is representative of AR content data associated to at least one virtual spatial coordinate
Mapping each secondary multidimensional coordinate to a corresponding primary multidimensional coordinate with the remote server, wherein the corresponding primary multidimensional coordinate is from the plurality of multidimensional coordinates

FIG. 3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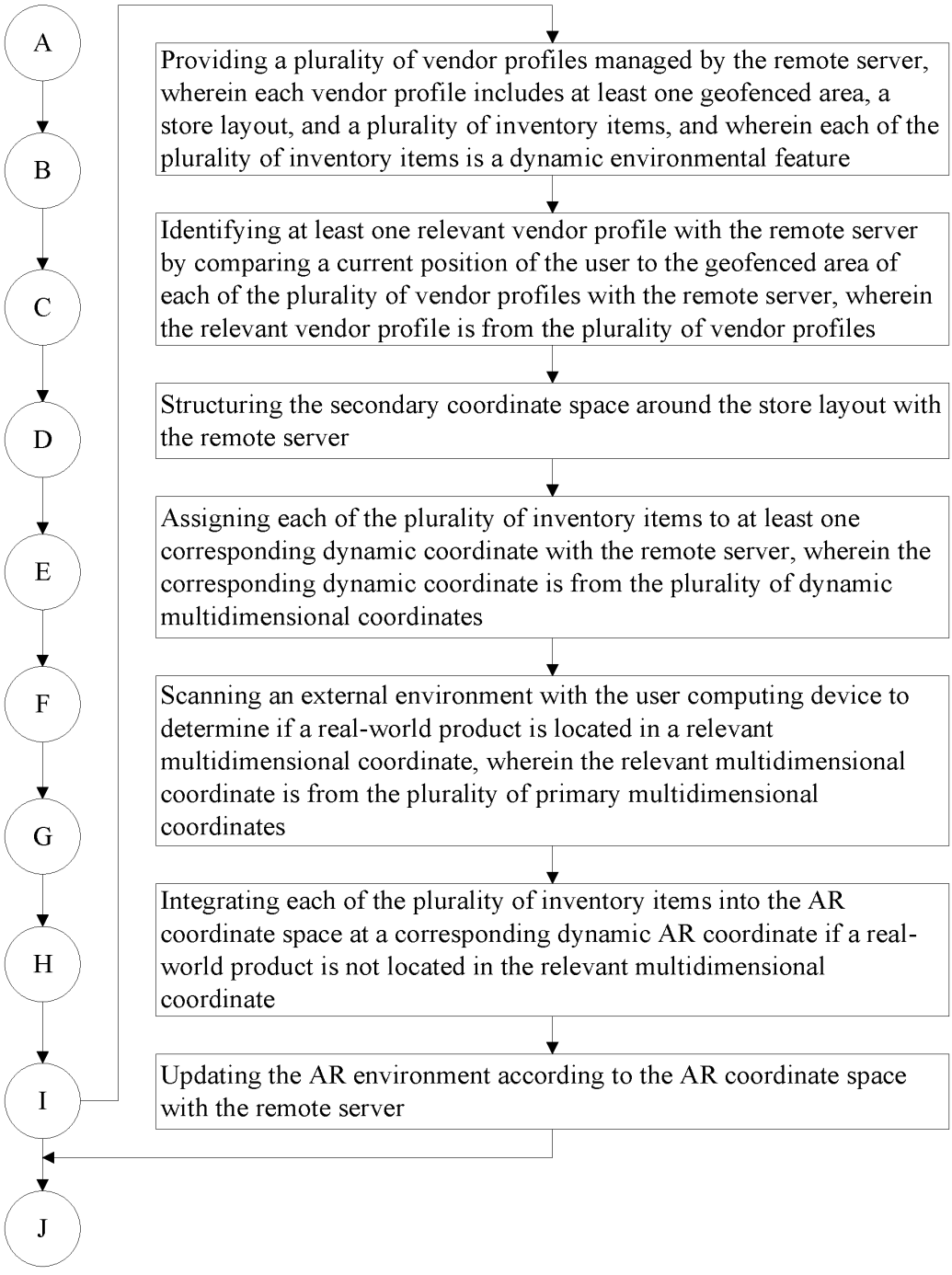
Providing the AR environment includes a plurality of static environmental features, and a plurality of dynamic environmental features, wherein each of the plurality of static environmental features is associated to at least one static multidimensional coordinate and each of the plurality of dynamic environmental features is associated to at least one dynamic multidimensional coordinate
Rendering each of the plurality of static environmental features at a corresponding static AR coordinate and each of the plurality of dynamic environmental features at a corresponding dynamic AR coordinate with the remote server

FIG. 4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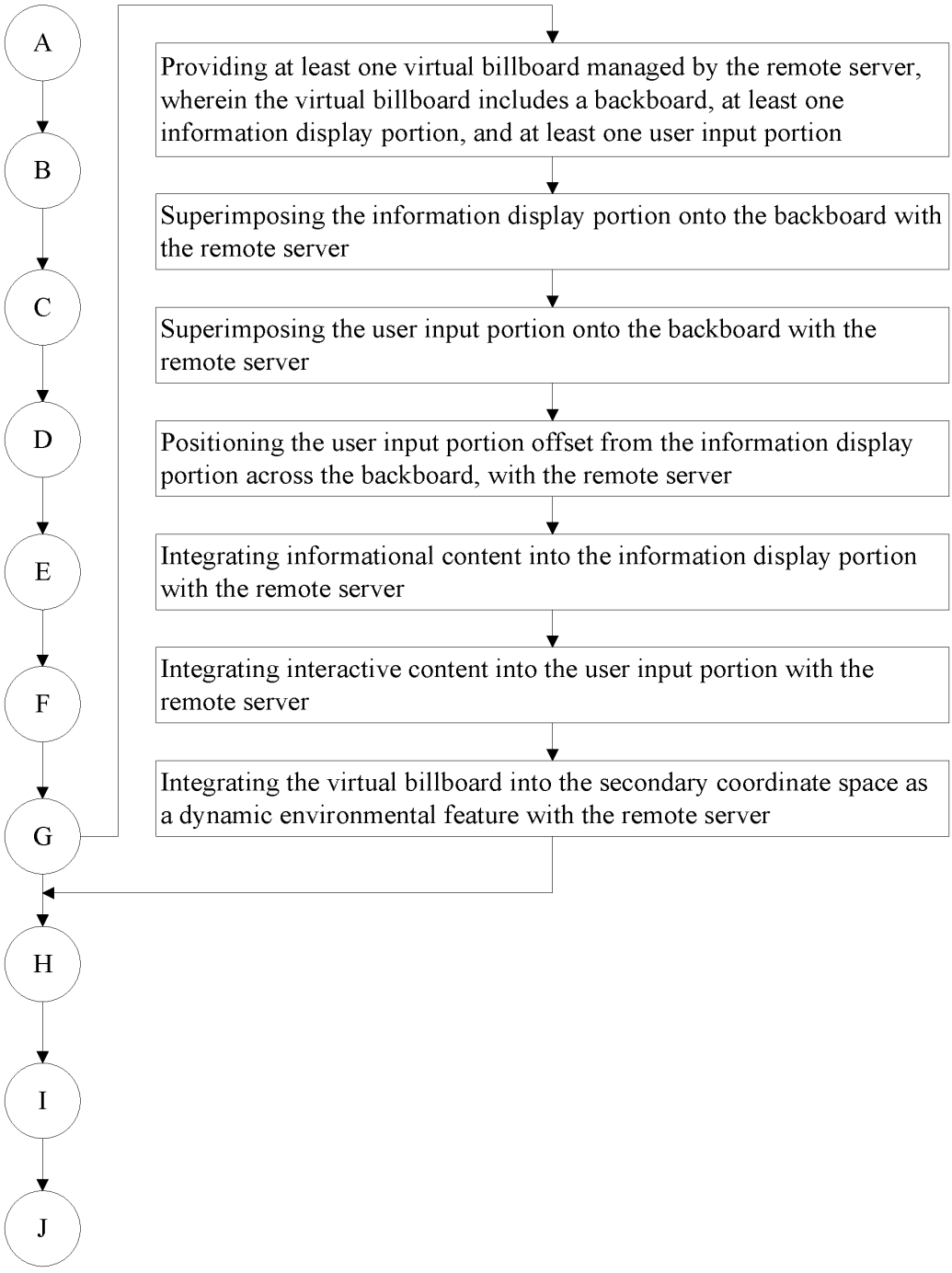
Providing a plurality of vendor profiles managed by the remote server, wherein each vendor profile includes at least one geofenced area, a store layout, and a plurality of inventory items, and wherein each of the plurality of inventory items is a dynamic environmental feature
Identifying at least one relevant vendor profile with the remote server by comparing a current position of the user to the geofenced area of each of the plurality of vendor profiles with the remote server, wherein the relevant vendor profile is from the plurality of vendor profiles
Structuring the secondary coordinate space around the store layout with the remote server
Assigning each of the plurality of inventory items to at least one corresponding dynamic coordinate with the remote server, wherein the corresponding dynamic coordinate is from the plurality of dynamic multidimensional coordinates
Scanning an external environment with the user computing device to determine if a real-world product is located in a relevant multidimensional coordinate, wherein the relevant multidimensional coordinate is from the plurality of primary multidimensional coordinates
Integrating each of the plurality of inventory items into the AR coordinate space at a corresponding dynamic AR coordinate if a real-world product is not located in the relevant multidimensional coordinate
Updating the AR environment according to the AR coordinate space with the remote server

FIG. 5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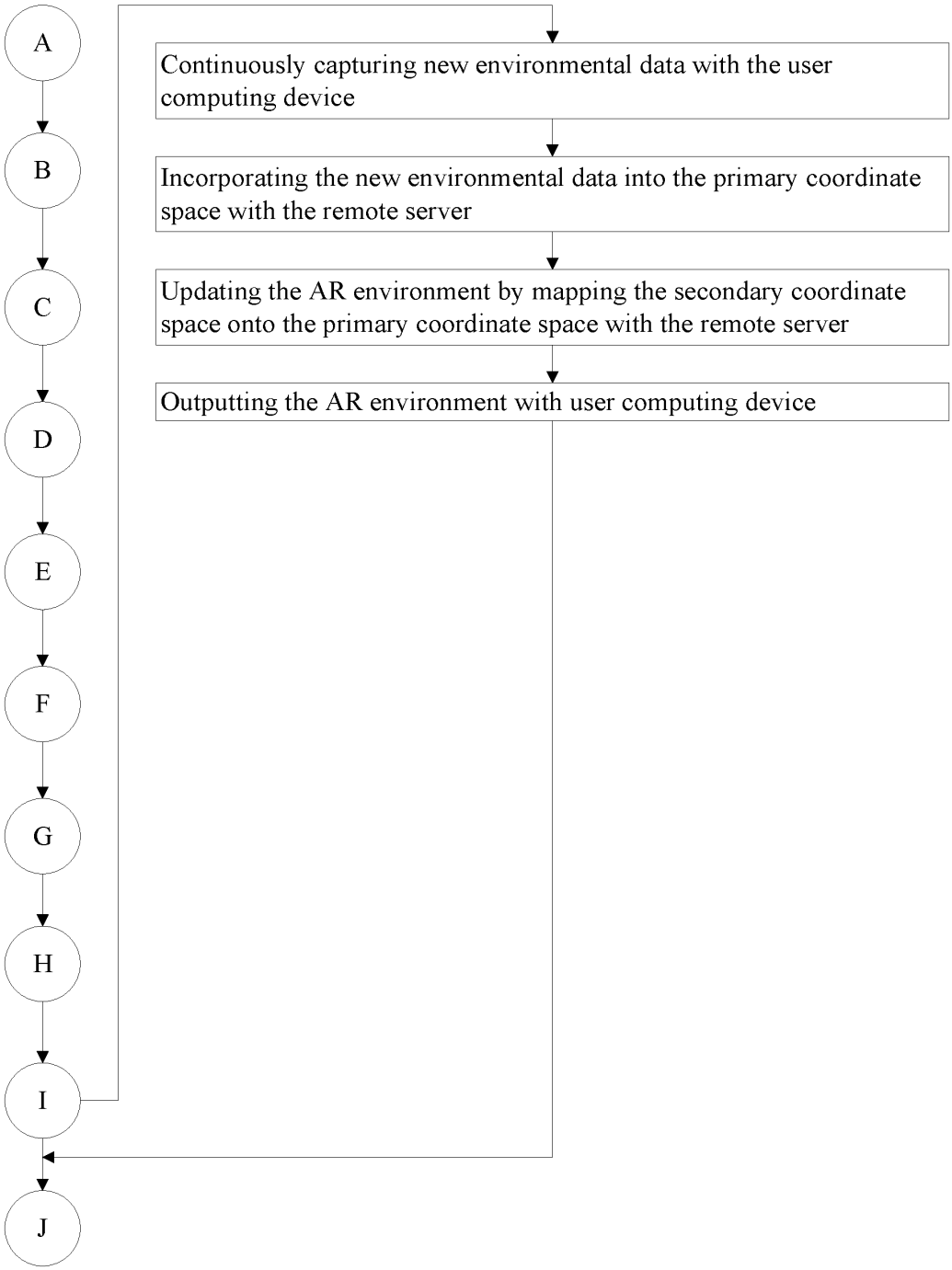
Providing at least one virtual billboard managed by the remote server, wherein the virtual billboard includes a backboard, at least one information display portion, and at least one user input portion
Superimposing the information display portion onto the backboard with the remote server
Superimposing the user input portion onto the backboard with the remote server
Positioning the user input portion offset from the information display portion across the backboard, with the remote server
Integrating informational content into the information display portion with the remote server
Integrating interactive content into the user input portion with the remote server
Integrating the virtual billboard into the secondary coordinate space as a dynamic environmental feature with the remote server

FIG. 6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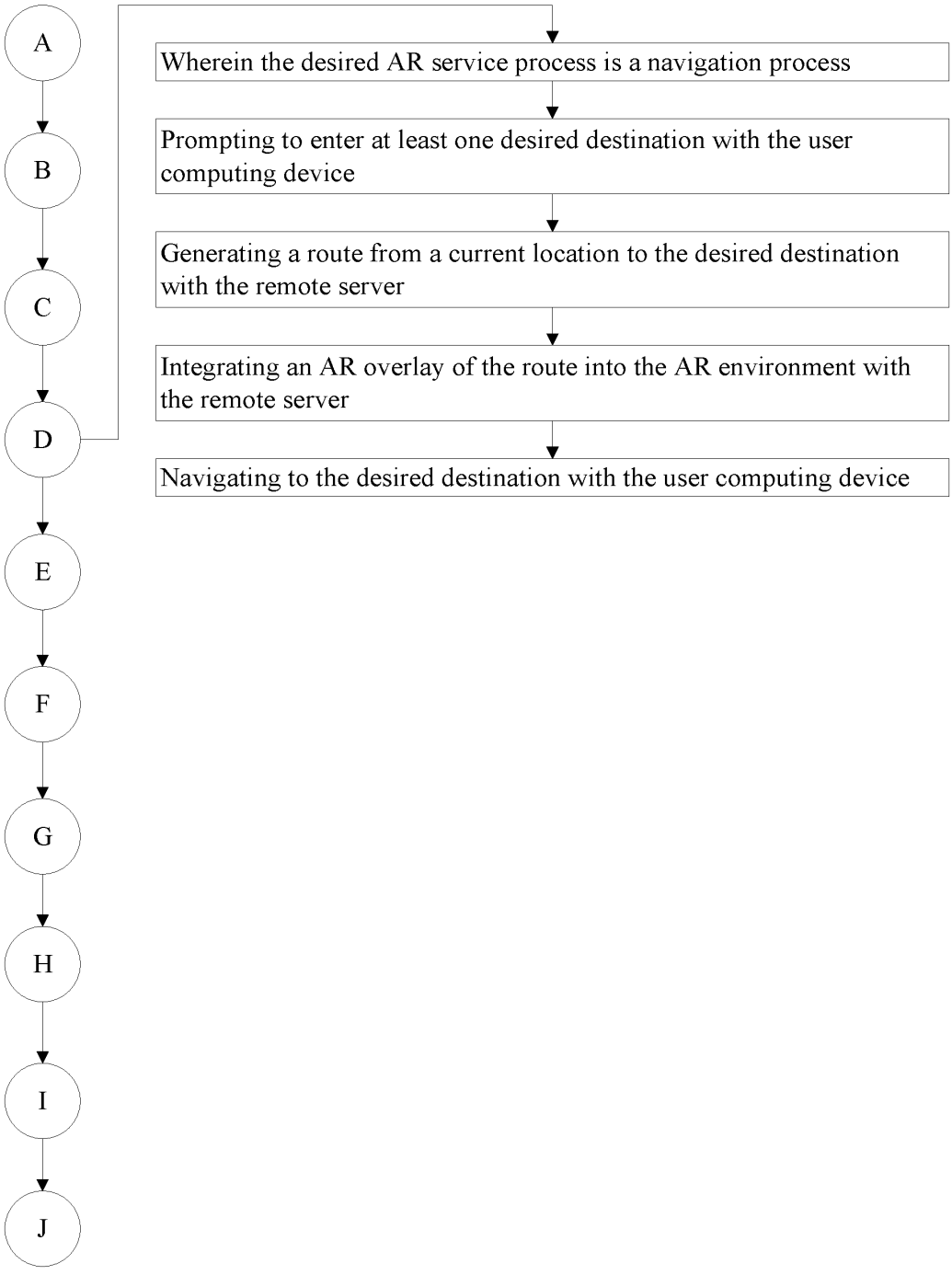
Continuously capturing new environmental data with the user computing device
Incorporating the new environmental data into the primary coordinate space with the remote server
Updating the AR environment by mapping the secondary coordinate space onto the primary coordinate space with the remote server
Outputting the AR environment with user computing device

FIG. 7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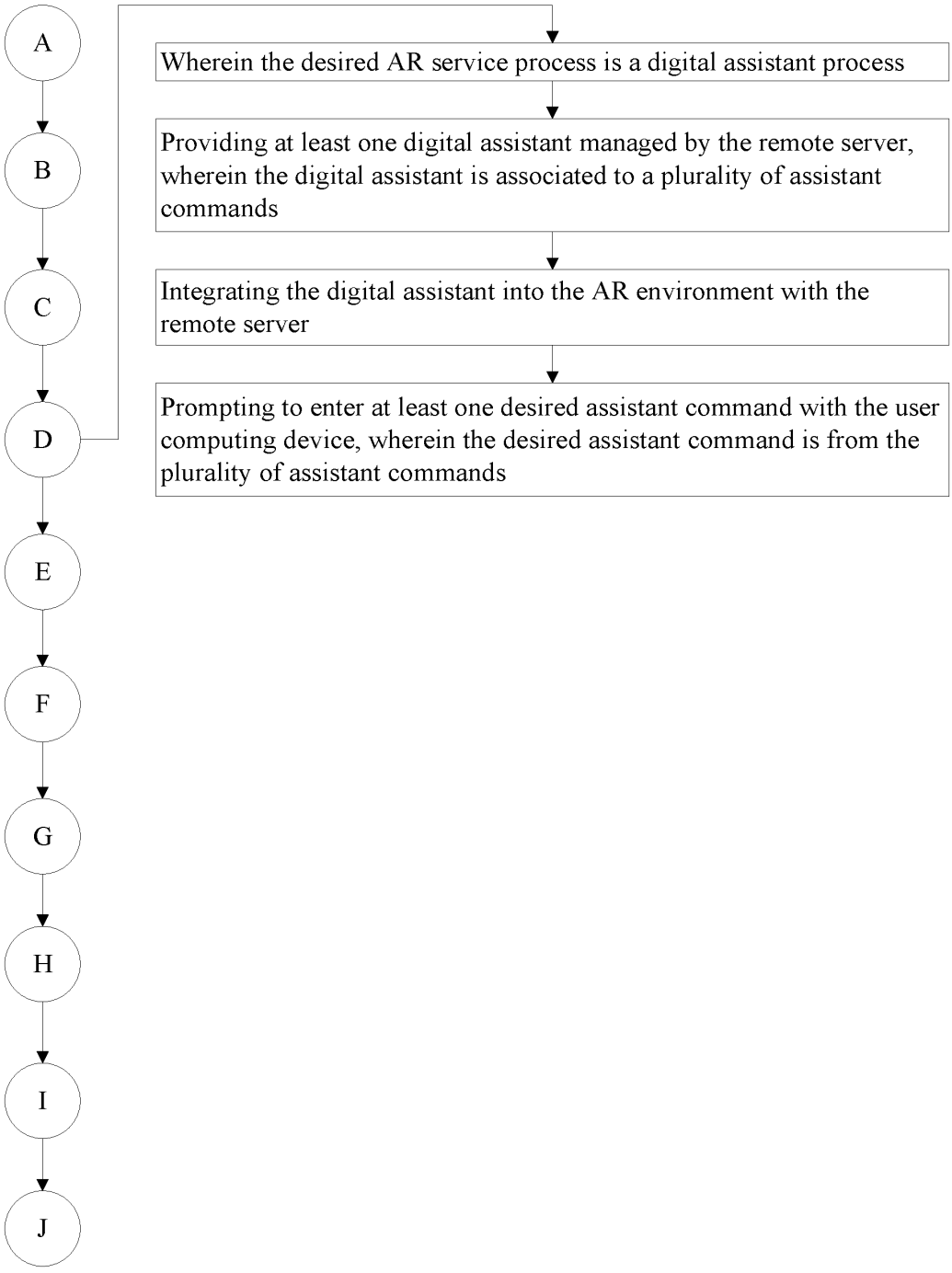
Wherein the desired AR service process is a navigation process
Prompting to enter at least one desired destination with the user computing device
Generating a route from a current location to the desired destination with the remote server
Integrating an AR overlay of the route into the AR environment with the remote server
Navigating to the desired destination with the user computing device

FIG. 8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Wherein the desired AR service process is a digital assistant process
Providing at least one digital assistant managed by the remote server, wherein the digital assistant is associated to a plurality of assistant commands
Integrating the digital assistant into the AR environment with the remote server
Prompting to enter at least one desired assistant command with the user computing device, wherein the desired assistant command is from the plurality of assistant commands

FIG. 9

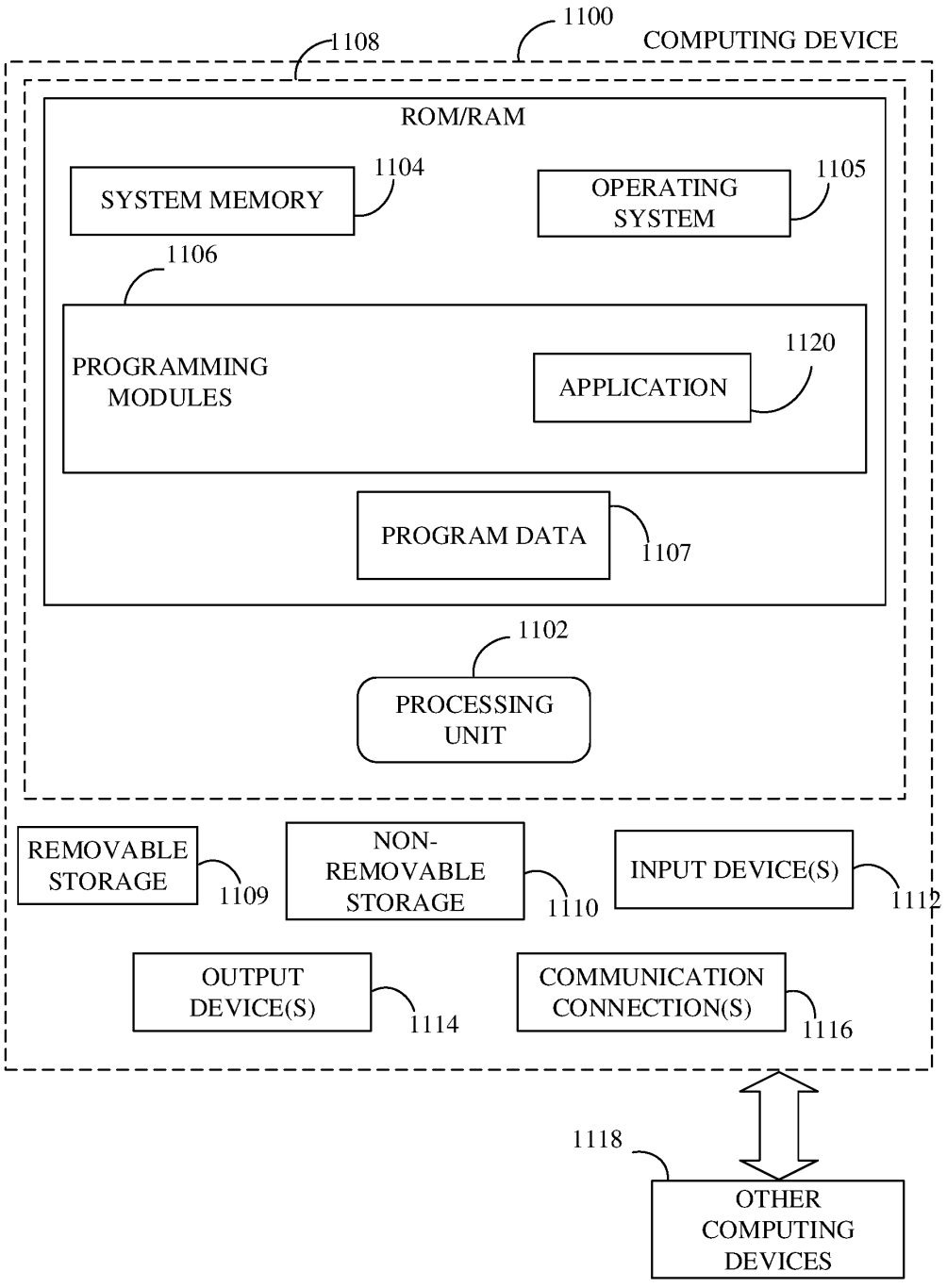
1100
COMPUTING DEVICE
1108
ROM/RAM
SYSTEM MEMORY
1104
OPERATING SYSTEM
1105
1106
PROGRAMMING MODULES
APPLICATION
1120
PROGRAM DATA
1107
1102
PROCESSING UNIT
REMOVABLE STORAGE
1109
NON-REMOVABLE STORAGE
1110
INPUT DEVICE(S)
1112
OUTPUT DEVICE(S)
1114
COMMUNICATION CONNECTION(S)
1116
1118
OTHER COMPUTING DEVICES

FIG. 10

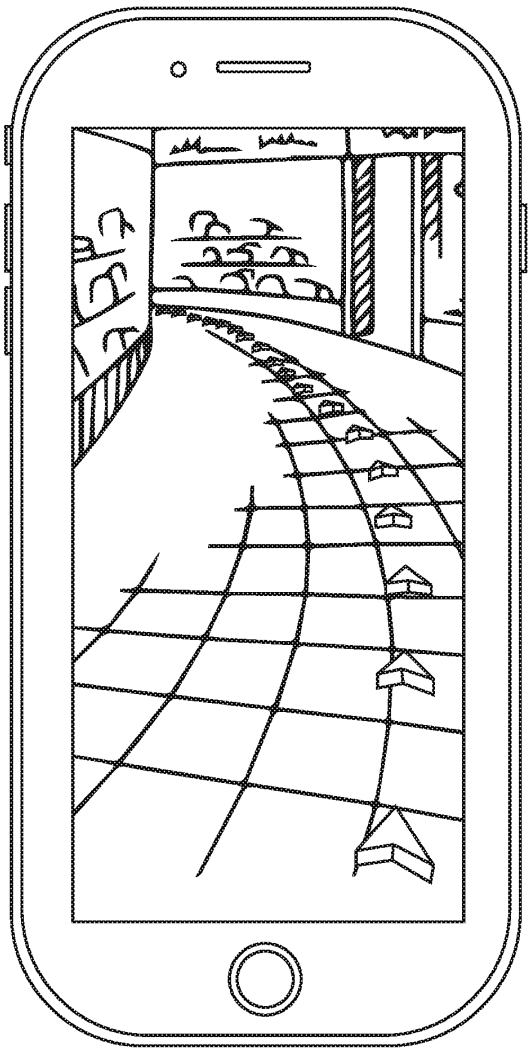

FIG. 11

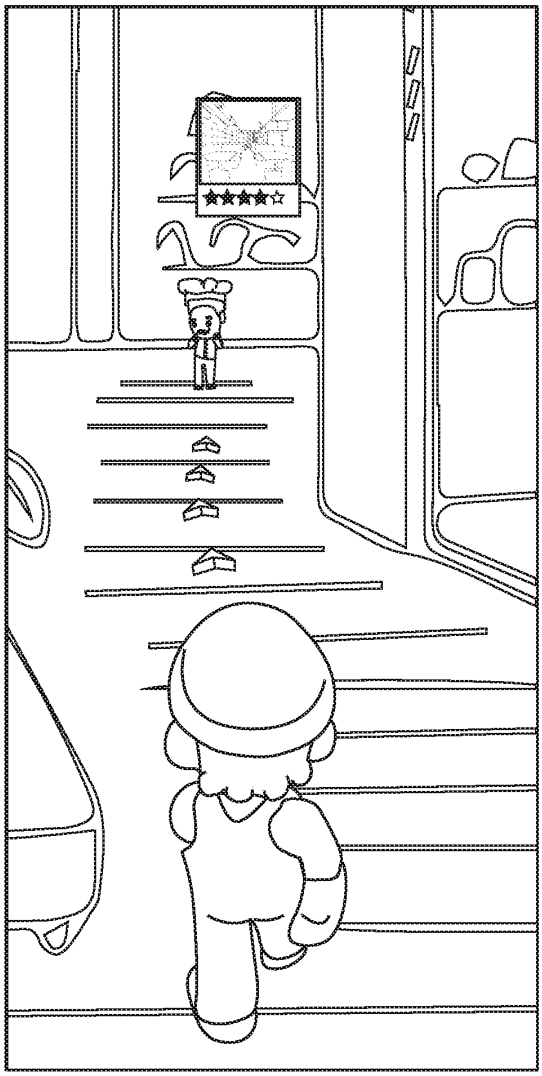

FIG. 12

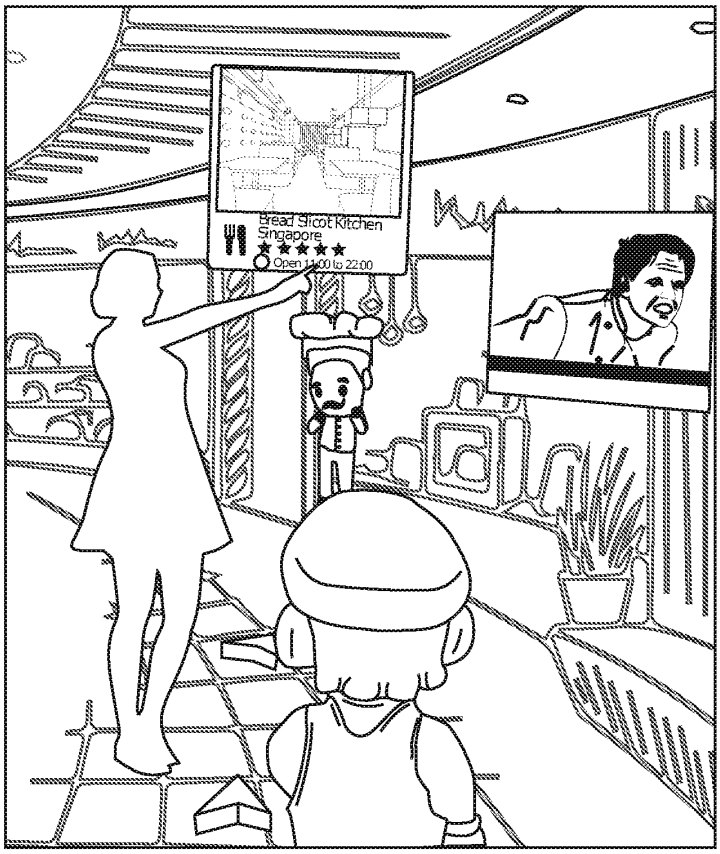

FIG. 13



FIG. 14