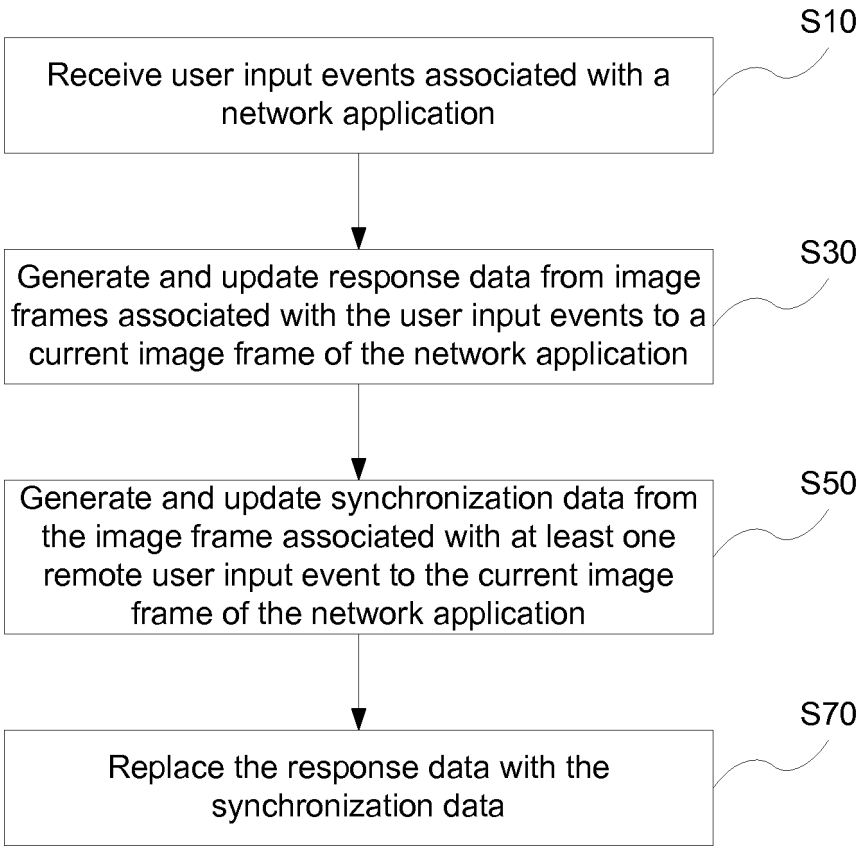
S10
Receive user input events associated with a network application
S30
Generate and update response data from image frames associated with the user input events to a current image frame of the network application
S50
Generate and update synchronization data from the image frame associated with at least one remote user input event to the current image frame of the network application
S70
Replace the response data with the synchronization data

Figure 1

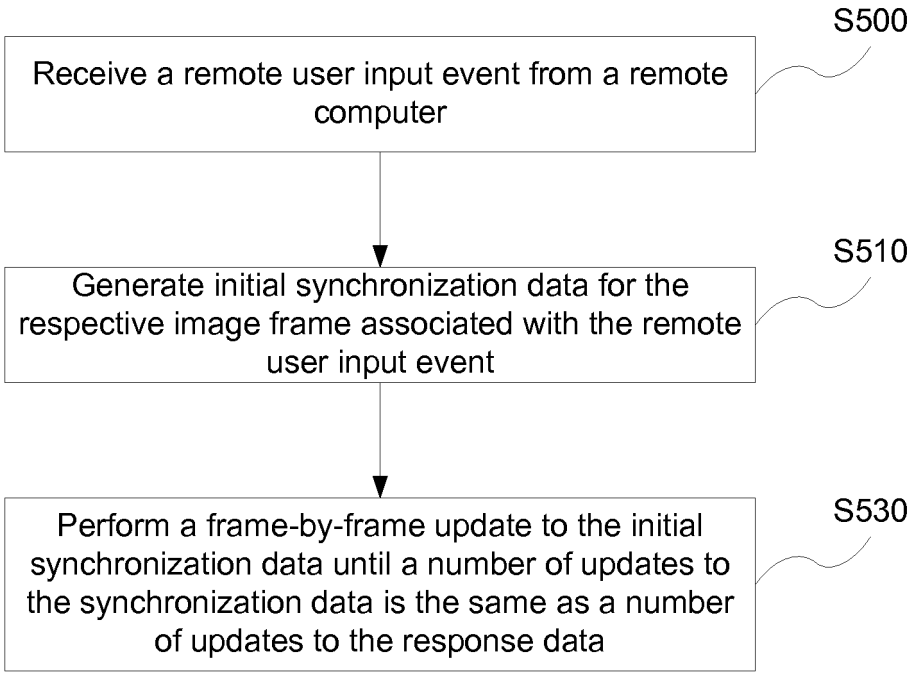
S500
Receive a remote user input event from a remote computer
S510
Generate initial synchronization data for the respective image frame associated with the remote user input event
S530
Perform a frame-by-frame update to the initial synchronization data until a number of updates to the synchronization data is the same as a number of updates to the response data

Figure 2

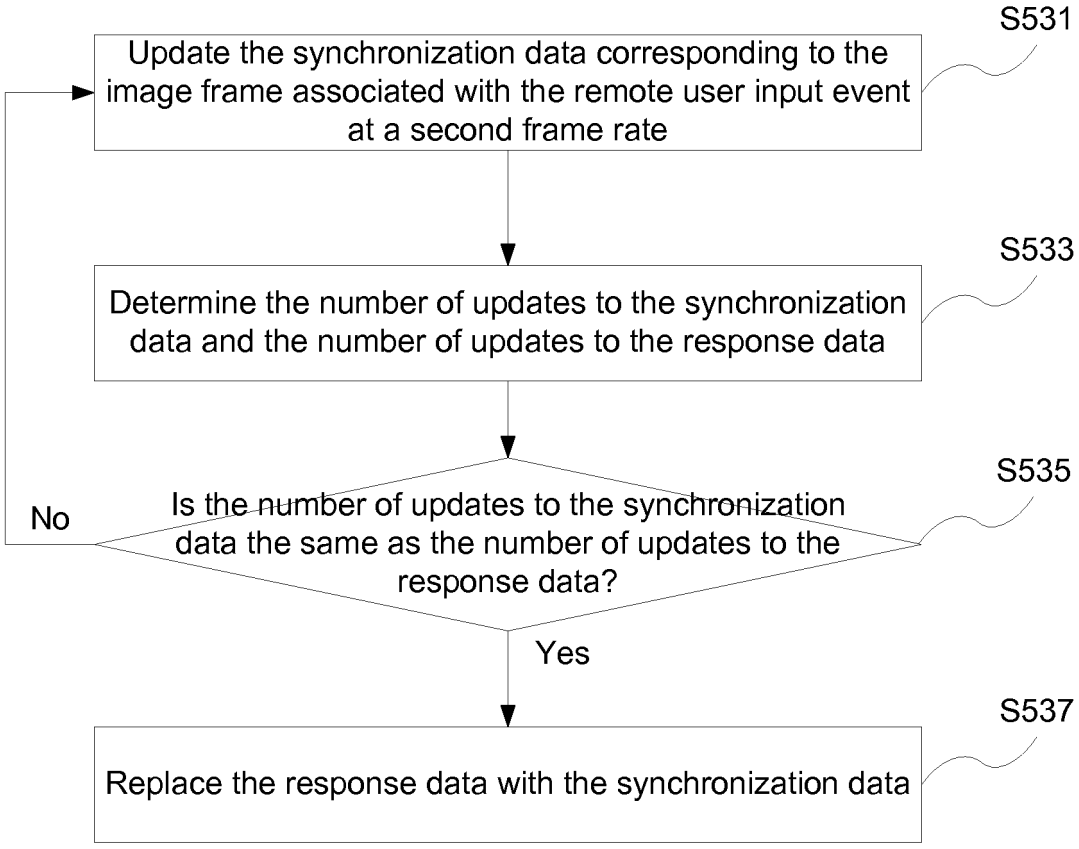
S531
Update the synchronization data corresponding to the image frame associated with the remote user input event at a second frame rate
S533
Determine the number of updates to the synchronization data and the number of updates to the response data
S535
Is the number of updates to the synchronization data the same as the number of updates to the response data?
No
Yes
S537
Replace the response data with the synchronization data

Figure 3

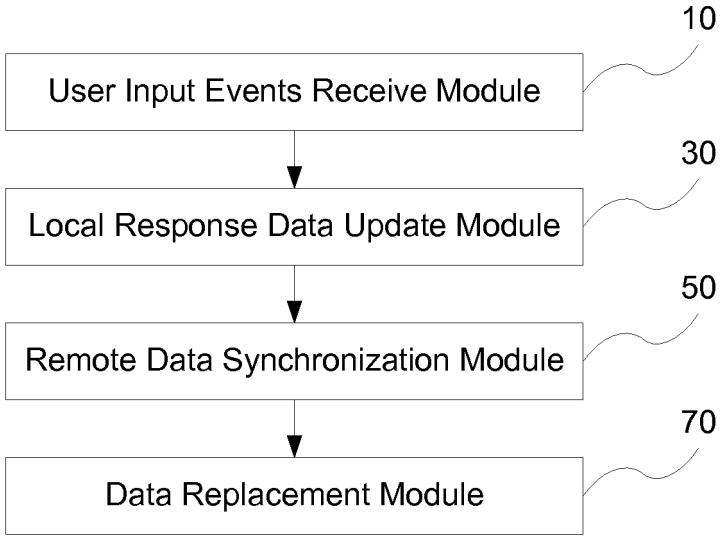

Figure 4

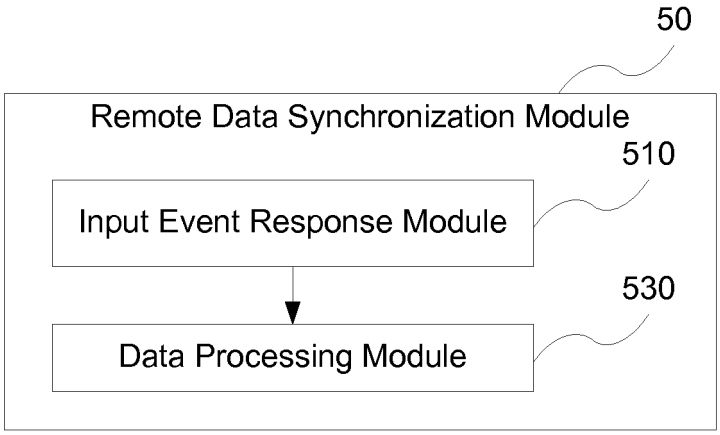

Figure 5

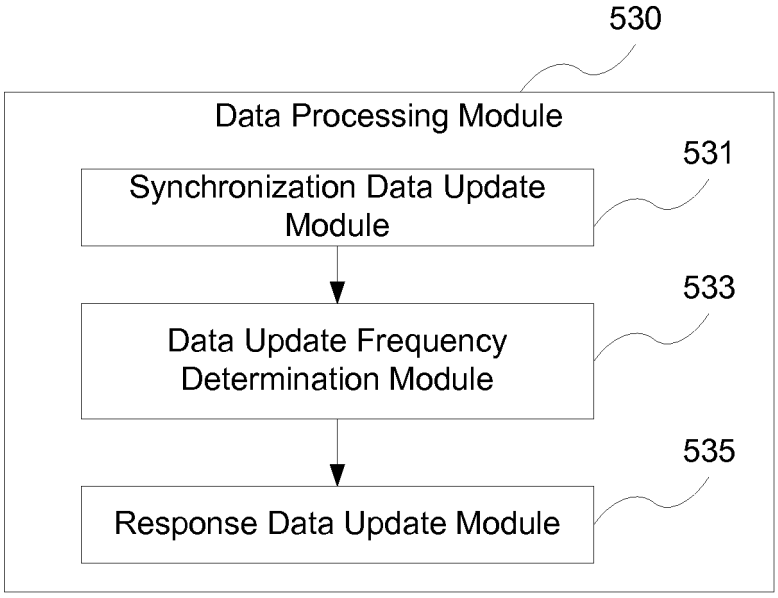

Figure 6

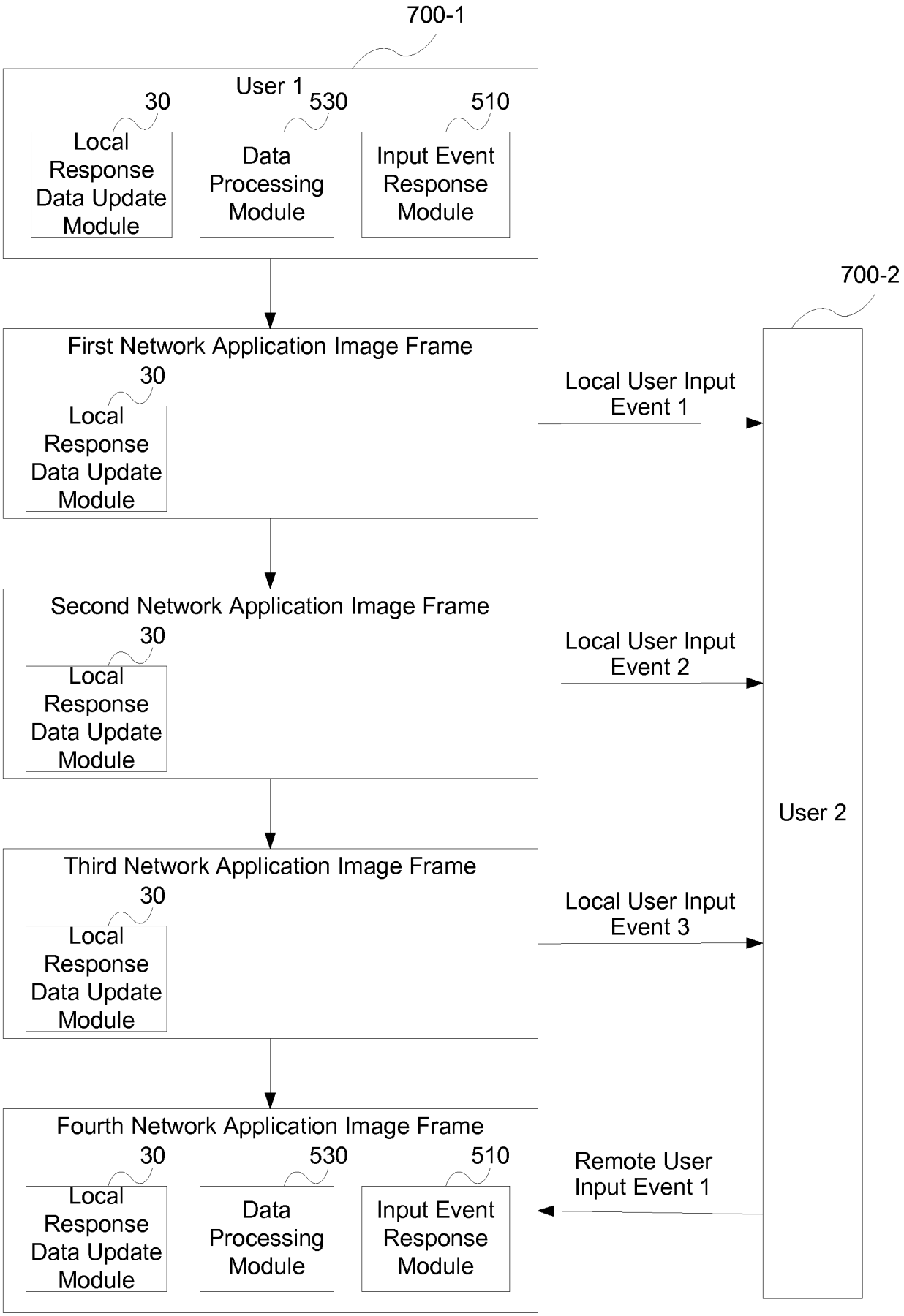
700-1
User 1
30
Local Response Data Update Module
530
Data Processing Module
510
Input Event Response Module
700-2
First Network Application Image Frame
30
Local Response Data Update Module
Local User Input Event 1
Second Network Application Image Frame
30
Local Response Data Update Module
Local User Input Event 2
Third Network Application Image Frame
30
Local Response Data Update Module
Local User Input Event 3
Fourth Network Application Image Frame
30
Local Response Data Update Module
530
Data Processing Module
510
Input Event Response Module
Remote User Input Event 1
User 2

Figure 7

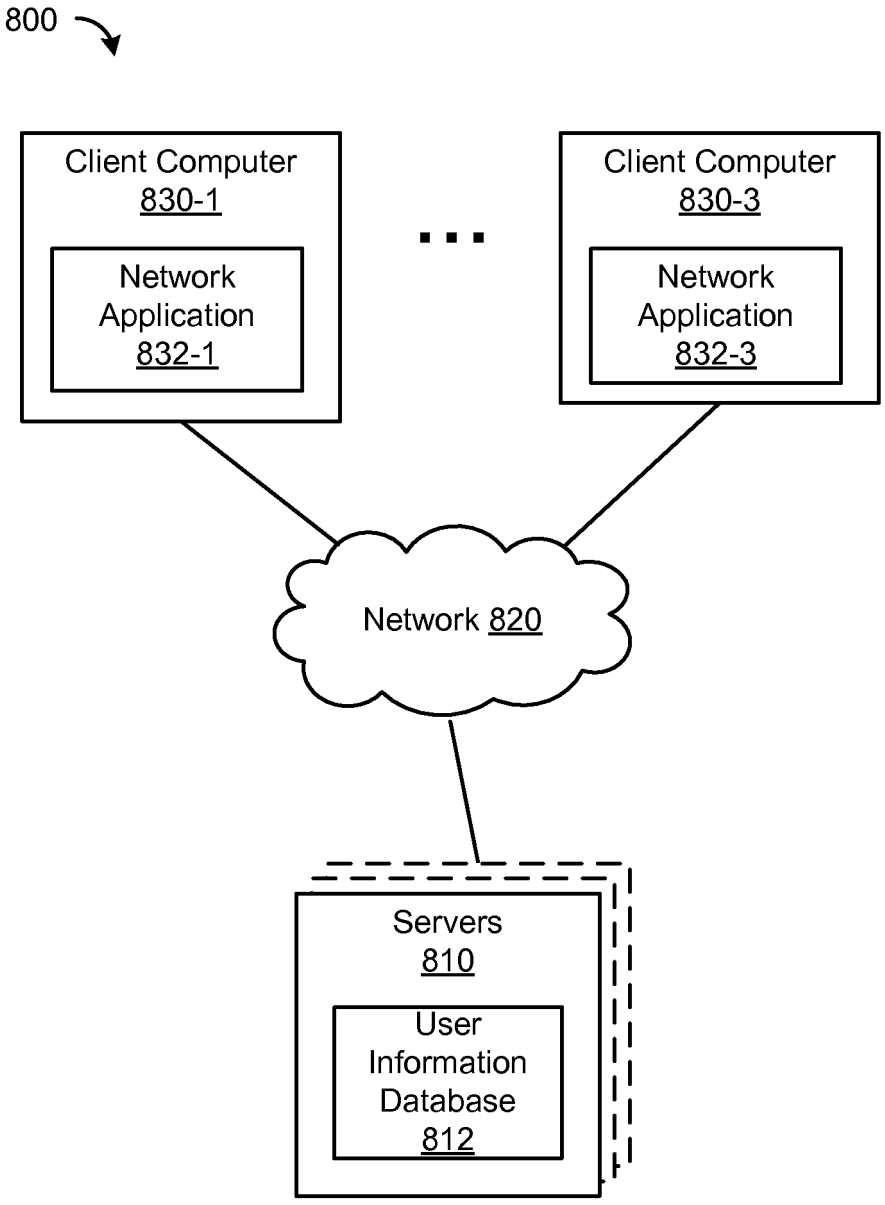
800
Client Computer
830-1
Network
Application
832-1
Client Computer
830-3
Network
Application
832-3
Network 820
Servers
810
User
Information
Database
812

Figure 8

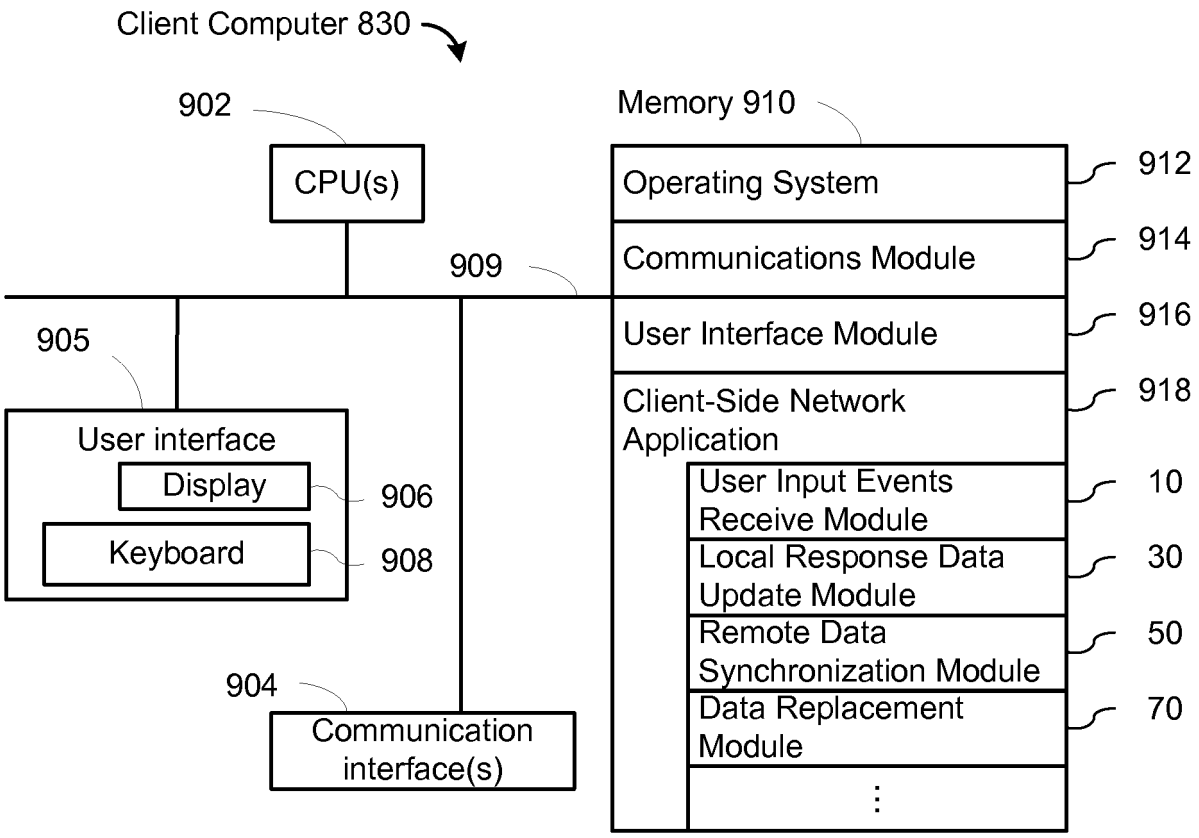

Figure 9

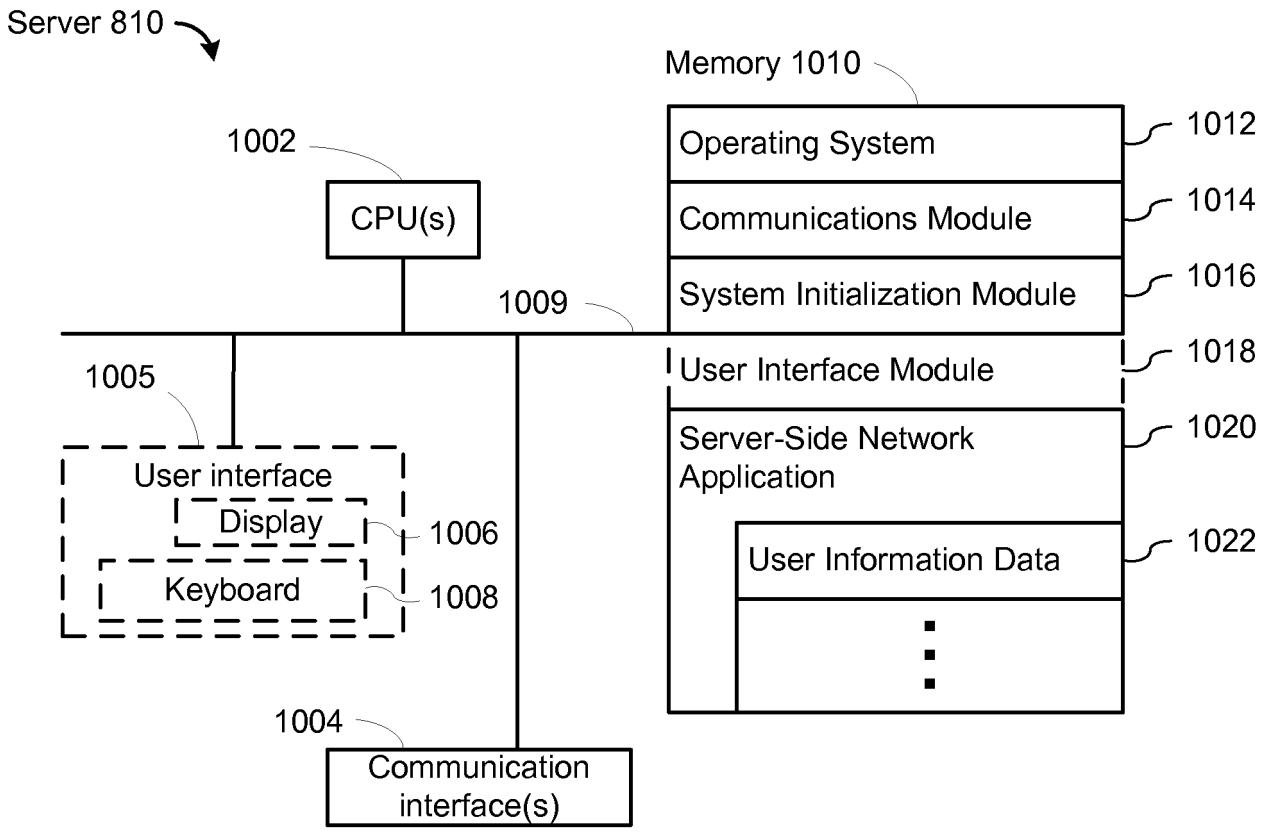

Figure 10