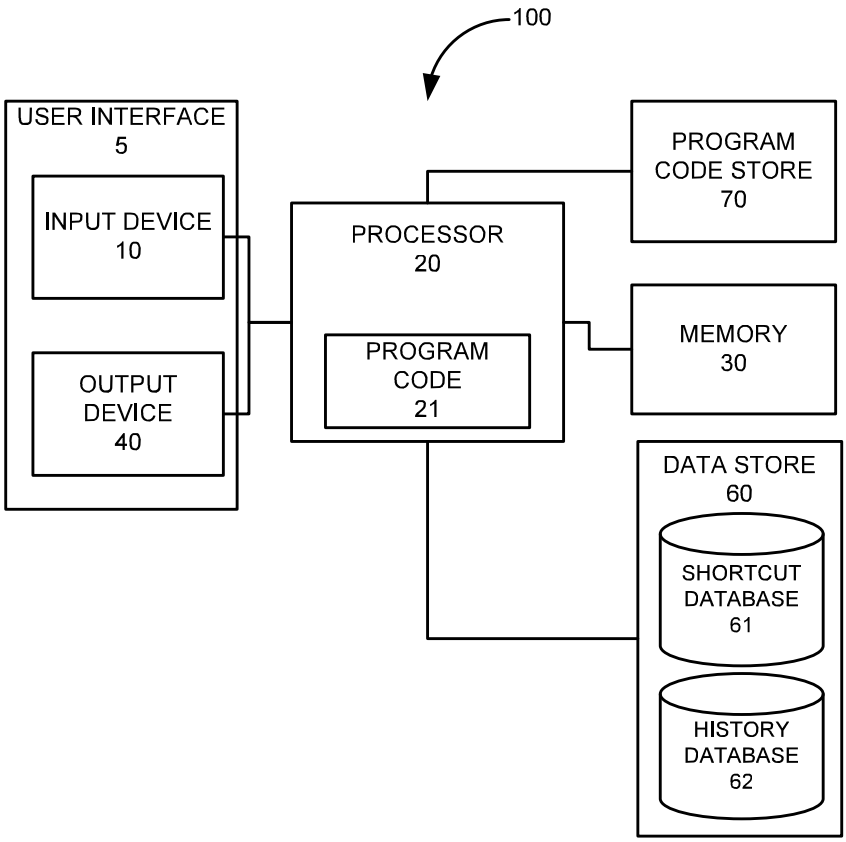

100
USER INTERFACE
5
INPUT DEVICE
10
OUTPUT
DEVICE
40
PROCESSOR
20
PROGRAM
CODE
21
PROGRAM
CODE STORE
70
MEMORY
30
DATA STORE
60
SHORTCUT
DATABASE
61
HISTORY
DATABASE
62

Figure 1

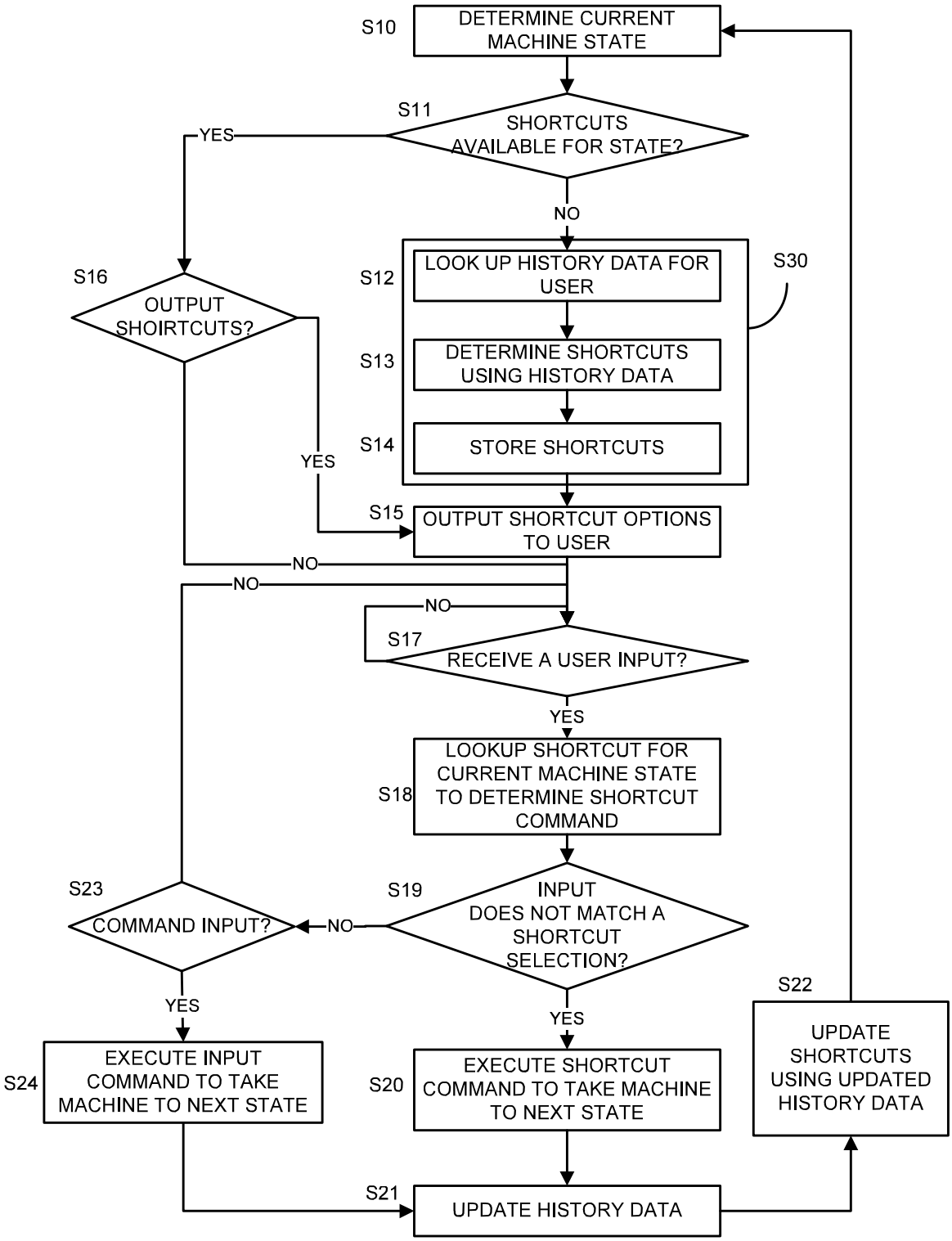

S10
DETERMINE CURRENT MACHINE STATE
S11
SHORTCUTS AVAILABLE FOR STATE?
YES
NO
S12
LOOK UP HISTORY DATA FOR USER
S13
DETERMINE SHORTCUTS USING HISTORY DATA
S14
STORE SHORTCUTS
S30
S16
OUTPUT SHOIRTCUTS?
YES
S15
OUTPUT SHORTCUT OPTIONS TO USER
NO
NO
NO
S17
RECEIVE A USER INPUT?
YES
S18
LOOKUP SHORTCUT FOR CURRENT MACHINE STATE TO DETERMINE SHORTCUT COMMAND
S19
INPUT DOES NOT MATCH A SHORTCUT SELECTION?
NO
S23
COMMAND INPUT?
YES
YES
S24
EXECUTE INPUT COMMAND TO TAKE MACHINE TO NEXT STATE
S20
EXECUTE SHORTCUT COMMAND TO TAKE MACHINE TO NEXT STATE
S22
UPDATE SHORTCUTS USING UPDATED HISTORY DATA
S21
UPDATE HISTORY DATA

Figure 2

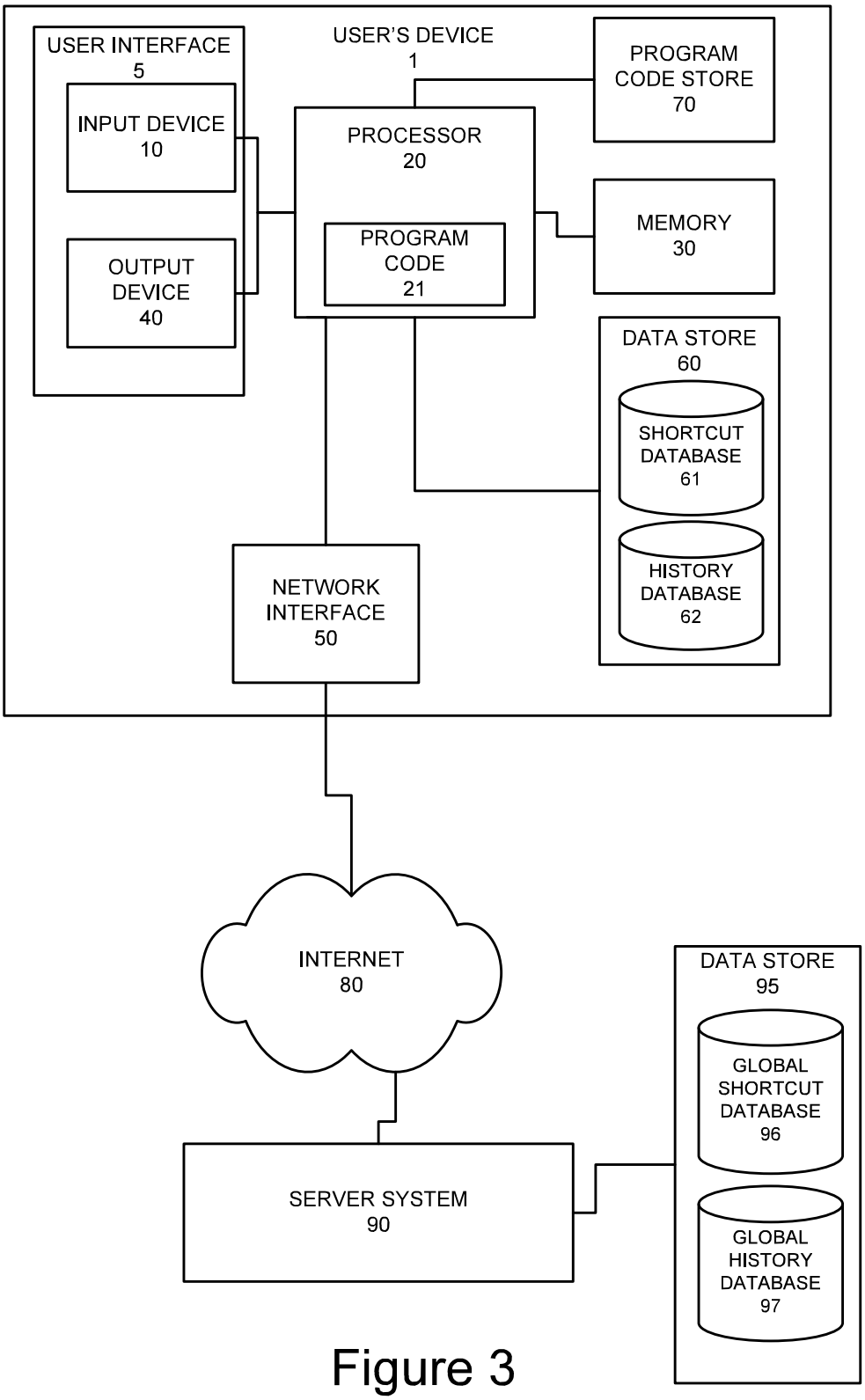

USER INTERFACE
5
INPUT DEVICE
10
OUTPUT
DEVICE
40
USER'S DEVICE
1
PROCESSOR
20
PROGRAM
CODE
21
PROGRAM
CODE STORE
70
MEMORY
30
DATA STORE
60
SHORTCUT
DATABASE
61
HISTORY
DATABASE
62
NETWORK
INTERFACE
50
INTERNET
80
SERVER SYSTEM
90
DATA STORE
95
GLOBAL
SHORTCUT
DATABASE
96
GLOBAL
HISTORY
DATABASE
97

Figure 3

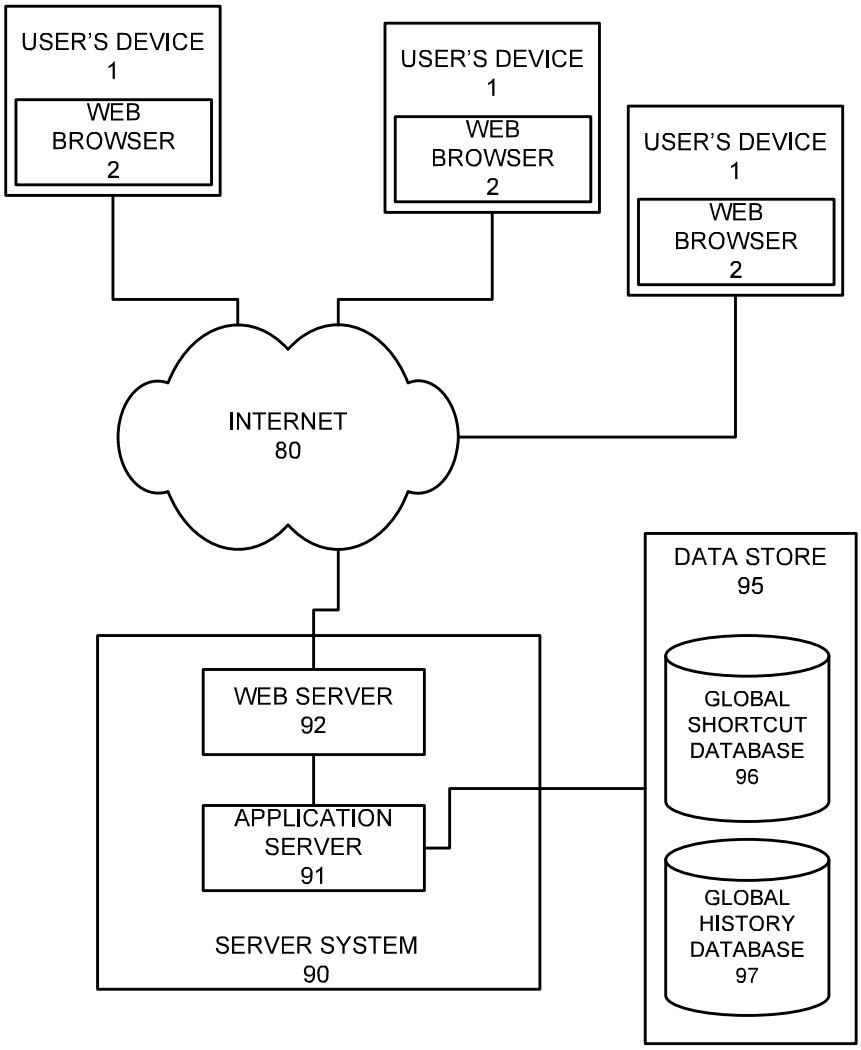

USER'S DEVICE
1
WEB
BROWSER
2
USER'S DEVICE
1
WEB
BROWSER
2
USER'S DEVICE
1
WEB
BROWSER
2
INTERNET
80
DATA STORE
95
WEB SERVER
92
APPLICATION
SERVER
91
SERVER SYSTEM
90
GLOBAL
SHORTCUT
DATABASE
96
GLOBAL
HISTORY
DATABASE
97

Figure 4

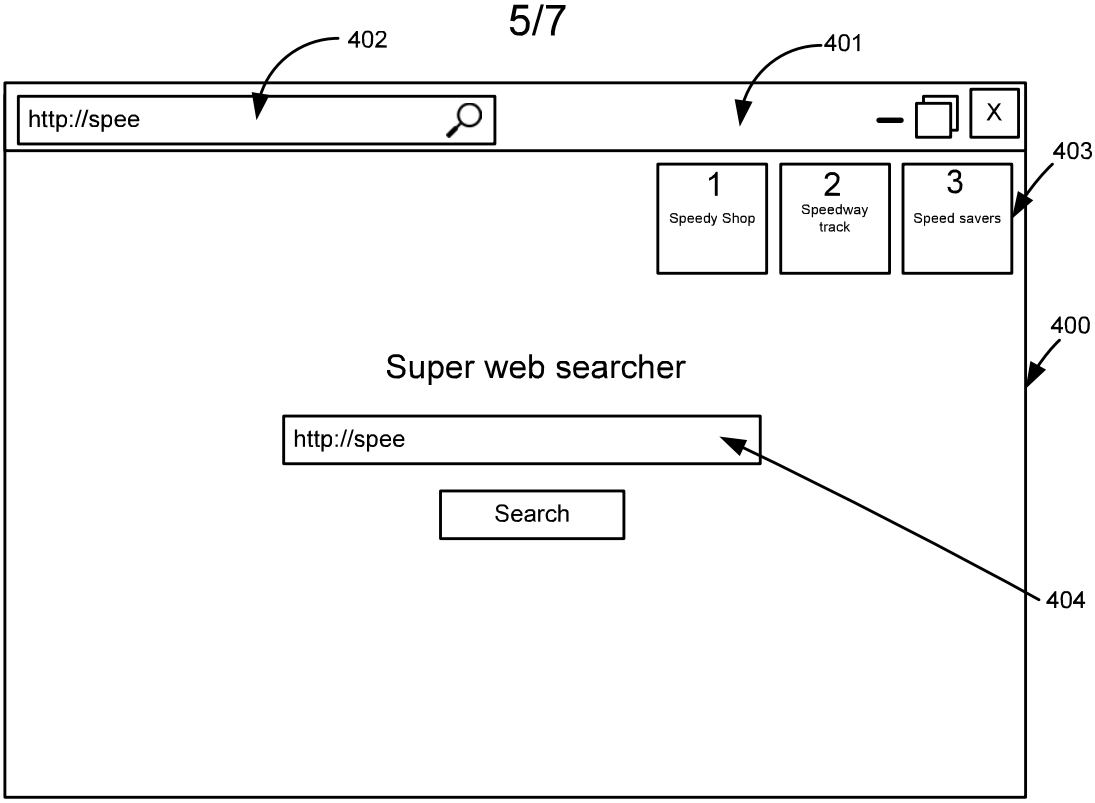


Figure 5a

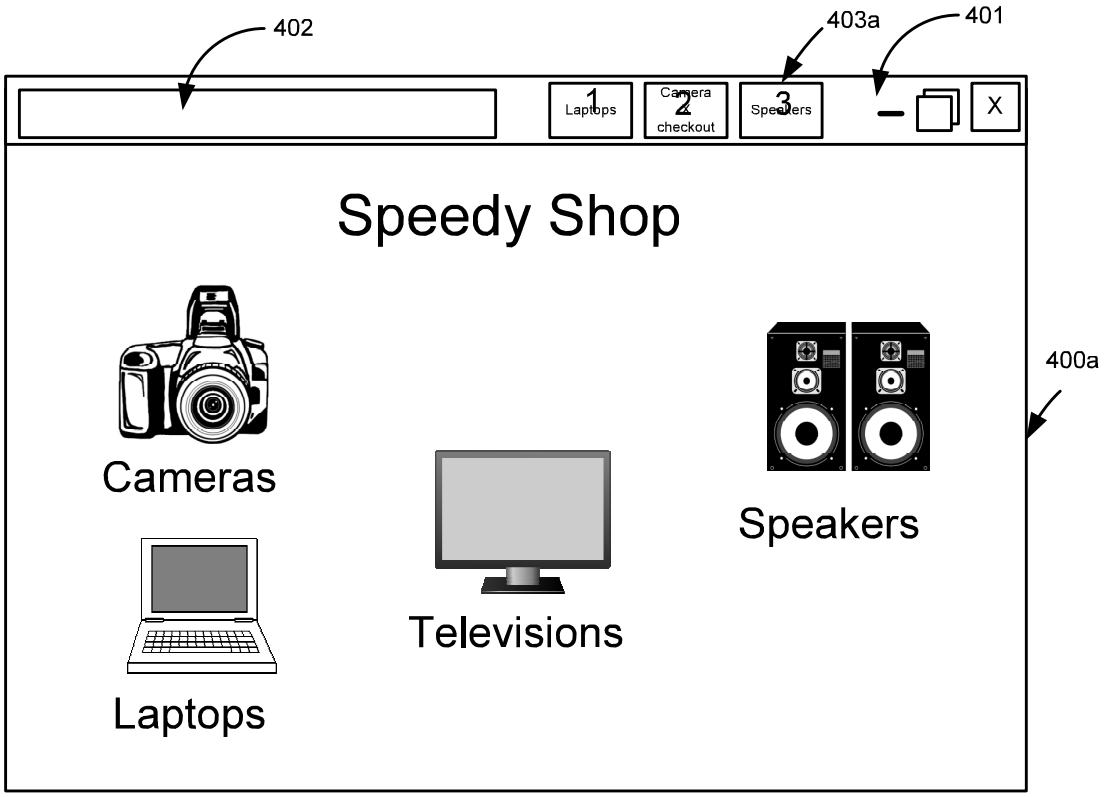


Figure 5b

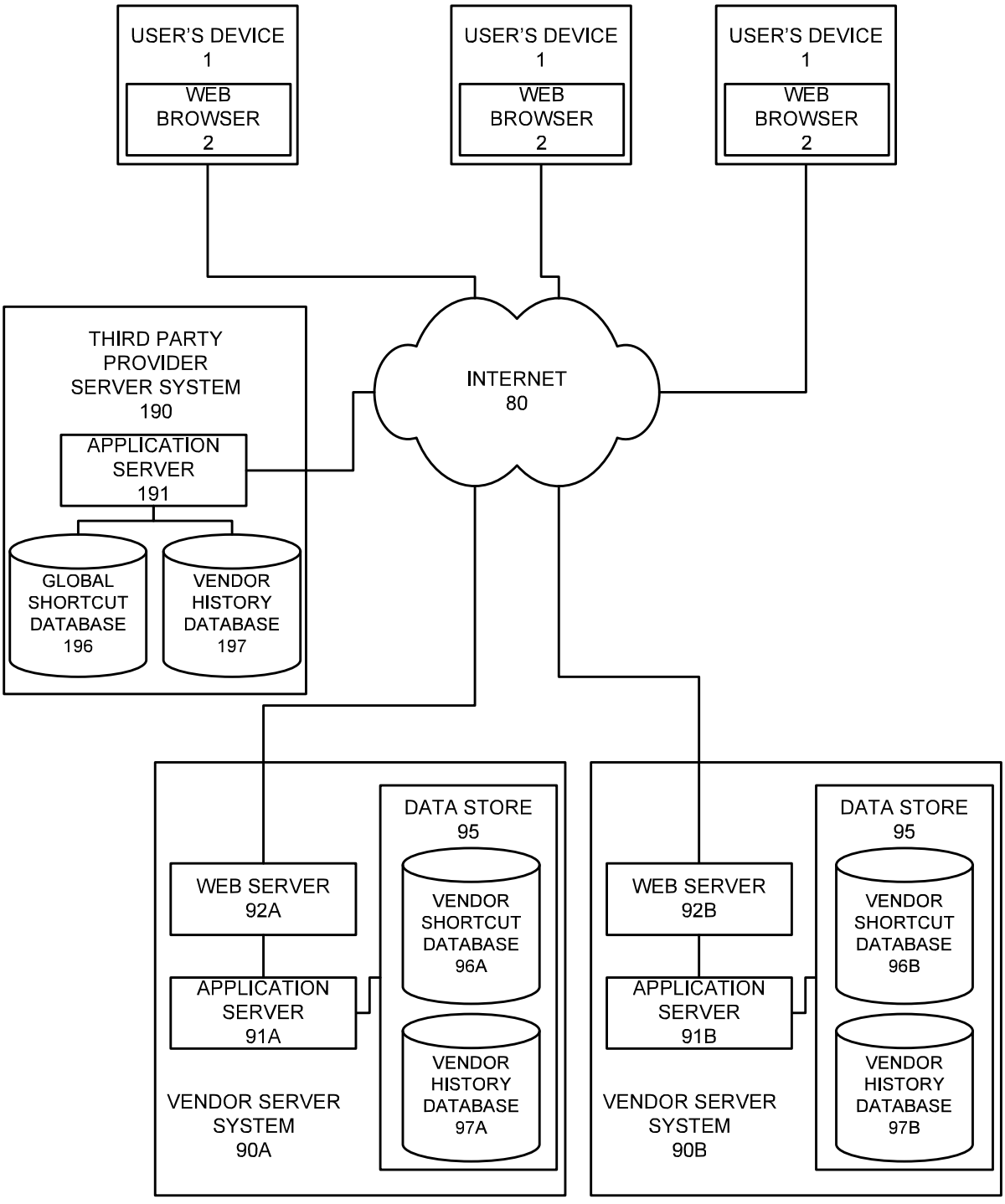

USER'S DEVICE
1
WEB
BROWSER
2
USER'S DEVICE
1
WEB
BROWSER
2
USER'S DEVICE
1
WEB
BROWSER
2
INTERNET
80
THIRD PARTY
PROVIDER
SERVER SYSTEM
190
APPLICATION
SERVER
191
GLOBAL
SHORTCUT
DATABASE
196
VENDOR
HISTORY
DATABASE
197
DATA STORE
95
WEB SERVER
92A
VENDOR
SHORTCUT
DATABASE
96A
APPLICATION
SERVER
91A
VENDOR
HISTORY
DATABASE
97A
VENDOR SERVER
SYSTEM
90A
DATA STORE
95
WEB SERVER
92B
VENDOR
SHORTCUT
DATABASE
96B
APPLICATION
SERVER
91B
VENDOR
HISTORY
DATABASE
97B
VENDOR SERVER
SYSTEM
90B

Figure 6

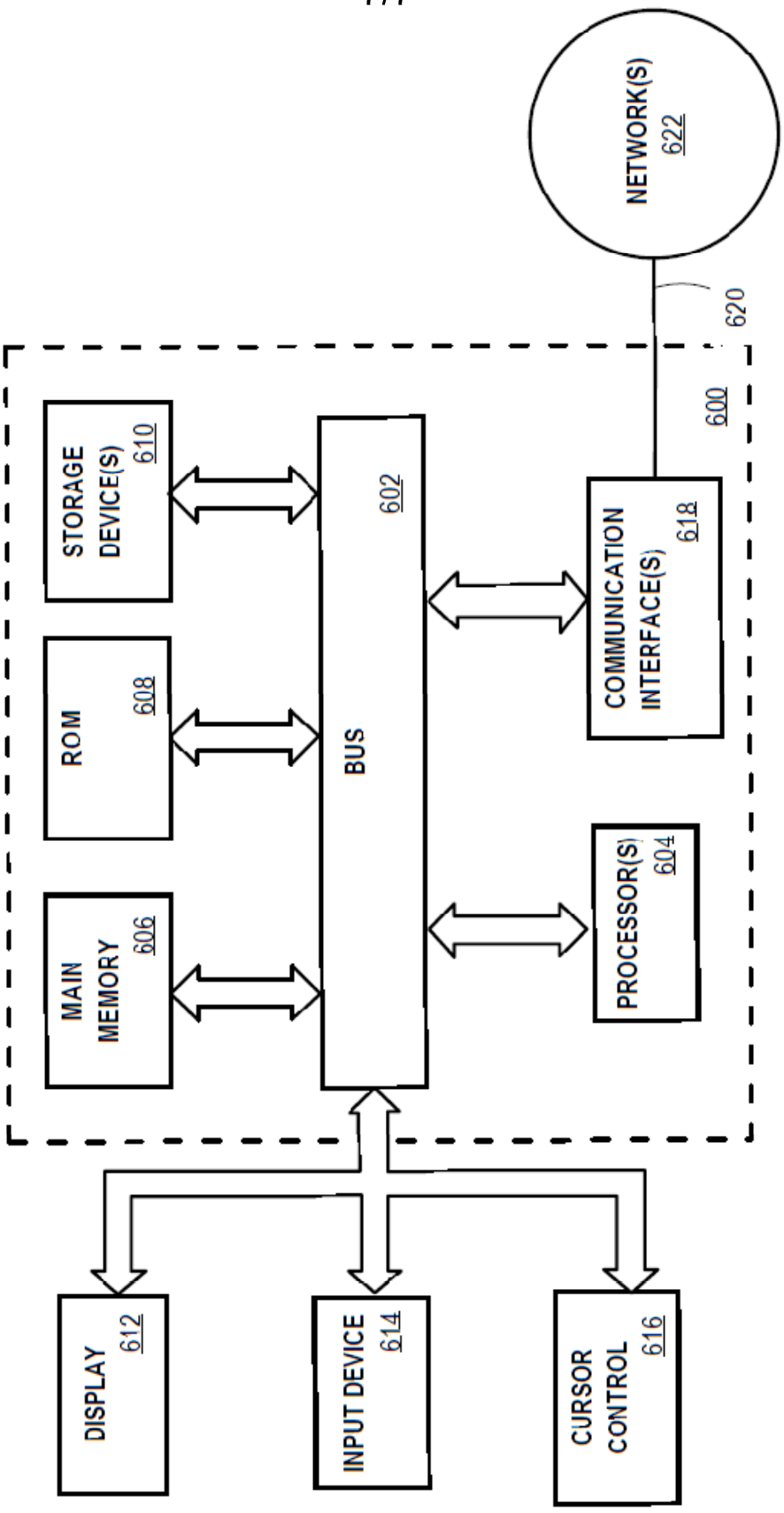

NETWORK(S)
622
620
600
STORAGE DEVICE(S)
610
ROM
608
MAIN MEMORY
606
BUS
602
COMMUNICATION INTERFACE(S)
618
PROCESSOR(S)
604
DISPLAY
612
INPUT DEVICE
614
CURSOR CONTROL
616

Figure 7