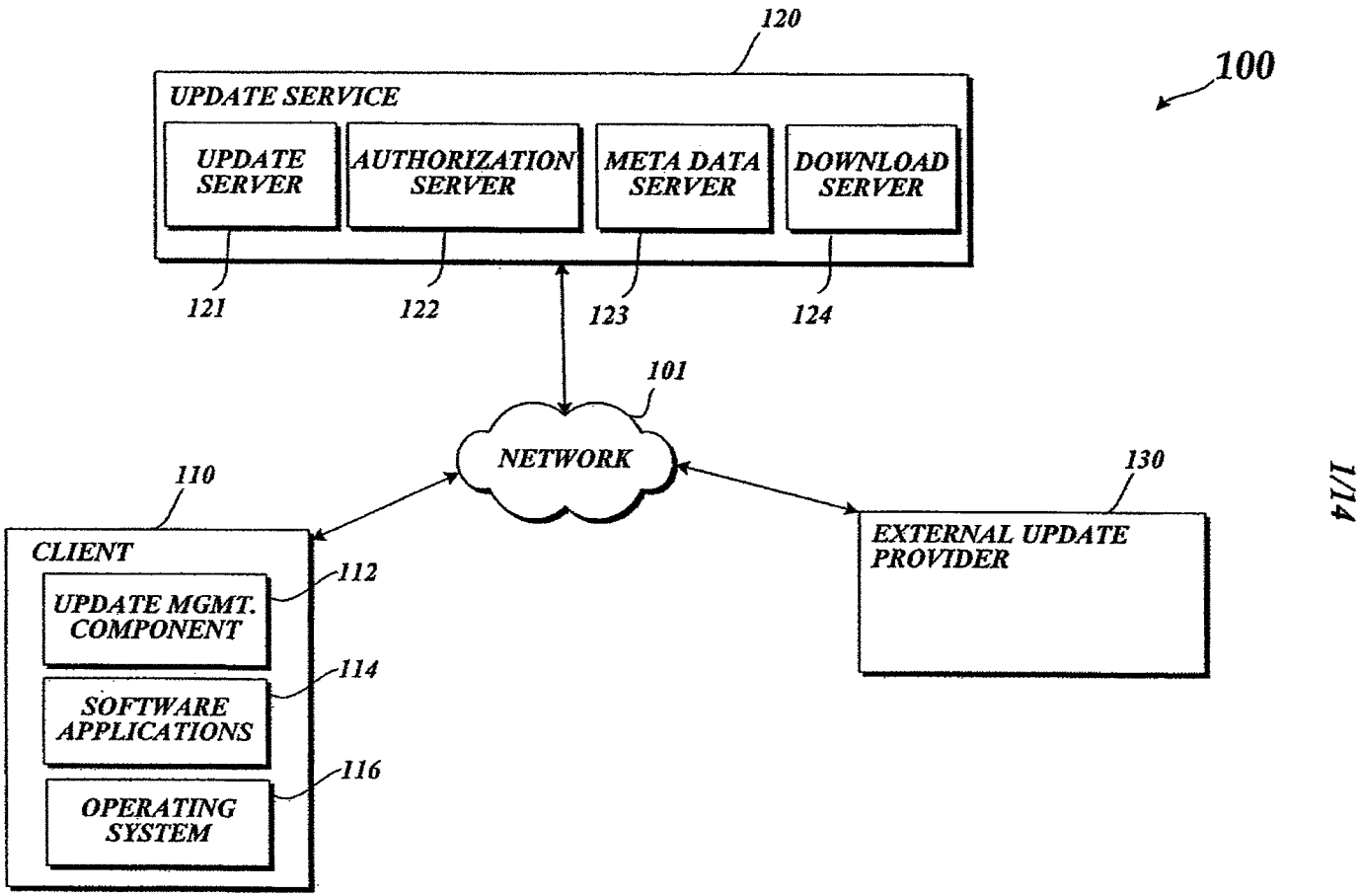

100
120
UPDATE SERVICE
UPDATE SERVER
AUTHORIZATION SERVER
META DATA SERVER
DOWNLOAD SERVER
121
122
123
124
101
NETWORK
110
CLIENT
112
UPDATE MGMT. COMPONENT
114
SOFTWARE APPLICATIONS
116
OPERATING SYSTEM
130
EXTERNAL UPDATE PROVIDER

Fig. 1

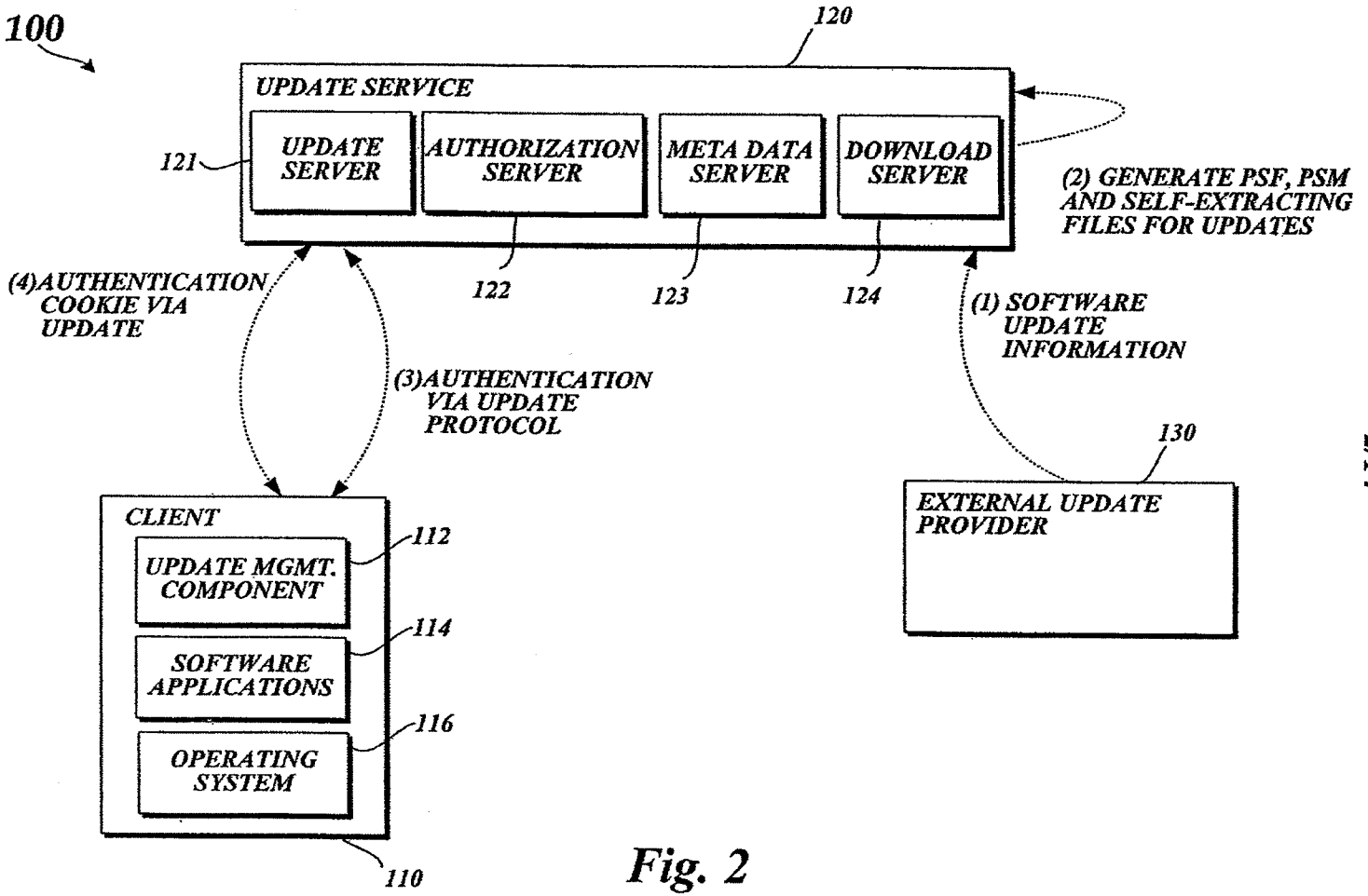

100
120
UPDATE SERVICE
121
UPDATE SERVER
AUTHORIZATION SERVER
META DATA SERVER
DOWNLOAD SERVER
(2) GENERATE PSF, PSM AND SELF-EXTRACTING FILES FOR UPDATES
122
123
124
(4)AUTHENTICATION COOKIE VIA UPDATE
(3)AUTHENTICATION VIA UPDATE PROTOCOL
(1) SOFTWARE UPDATE INFORMATION
130
EXTERNAL UPDATE PROVIDER
CLIENT
112
UPDATE MGMT. COMPONENT
114
SOFTWARE APPLICATIONS
116
OPERATING SYSTEM
110

Fig. 2

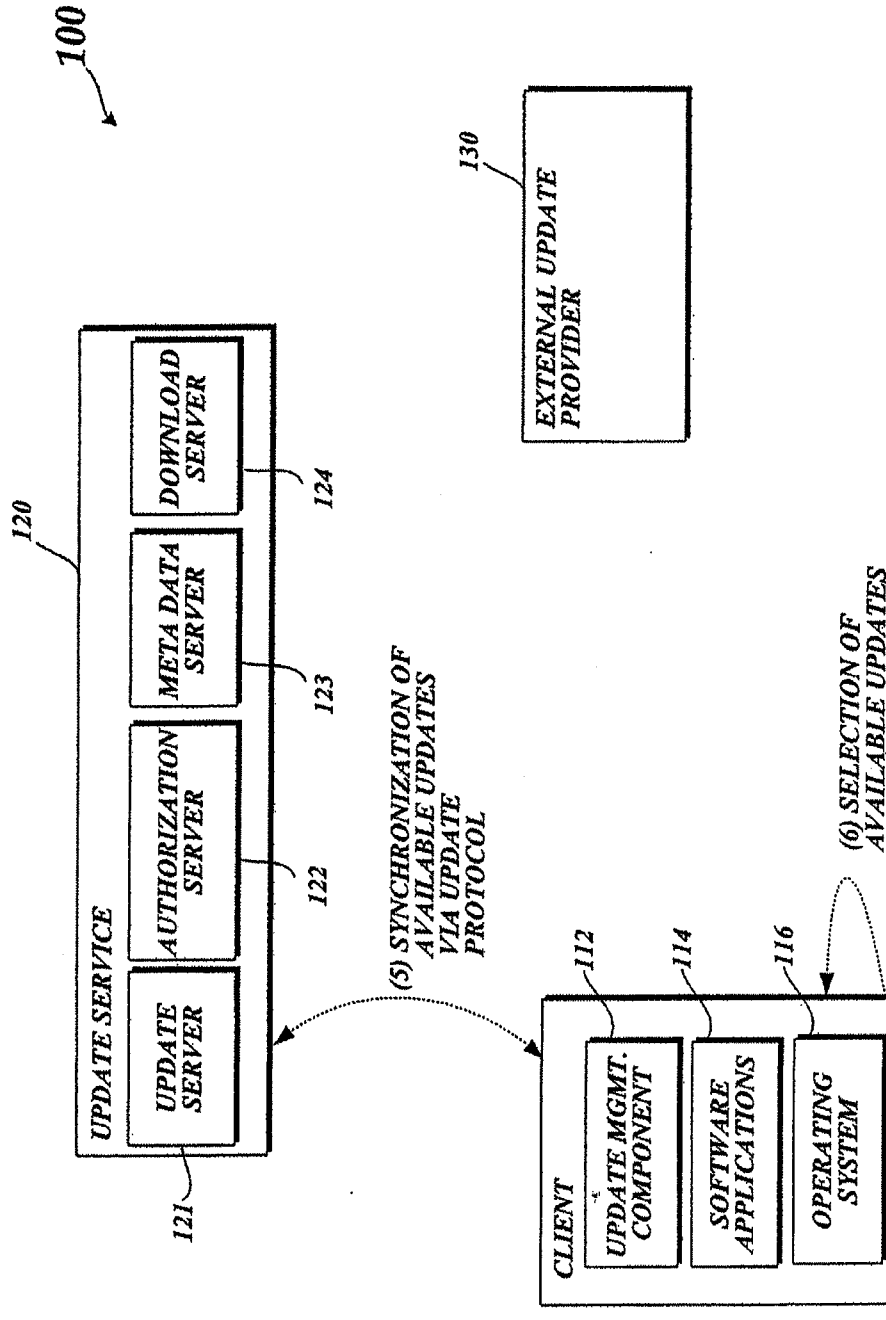

100
UPDATE SERVICE
120
UPDATE SERVER
121
AUTHORIZATION SERVER
122
META DATA SERVER
123
DOWNLOAD SERVER
124
EXTERNAL UPDATE PROVIDER
130
(5) SYNCHRONIZATION OF AVAILABLE UPDATES VIA UPDATE PROTOCOL
(6) SELECTION OF AVAILABLE UPDATES
CLIENT
110
UPDATE MGMT. COMPONENT
112
SOFTWARE APPLICATIONS
114
OPERATING SYSTEM
116

Fig. 3

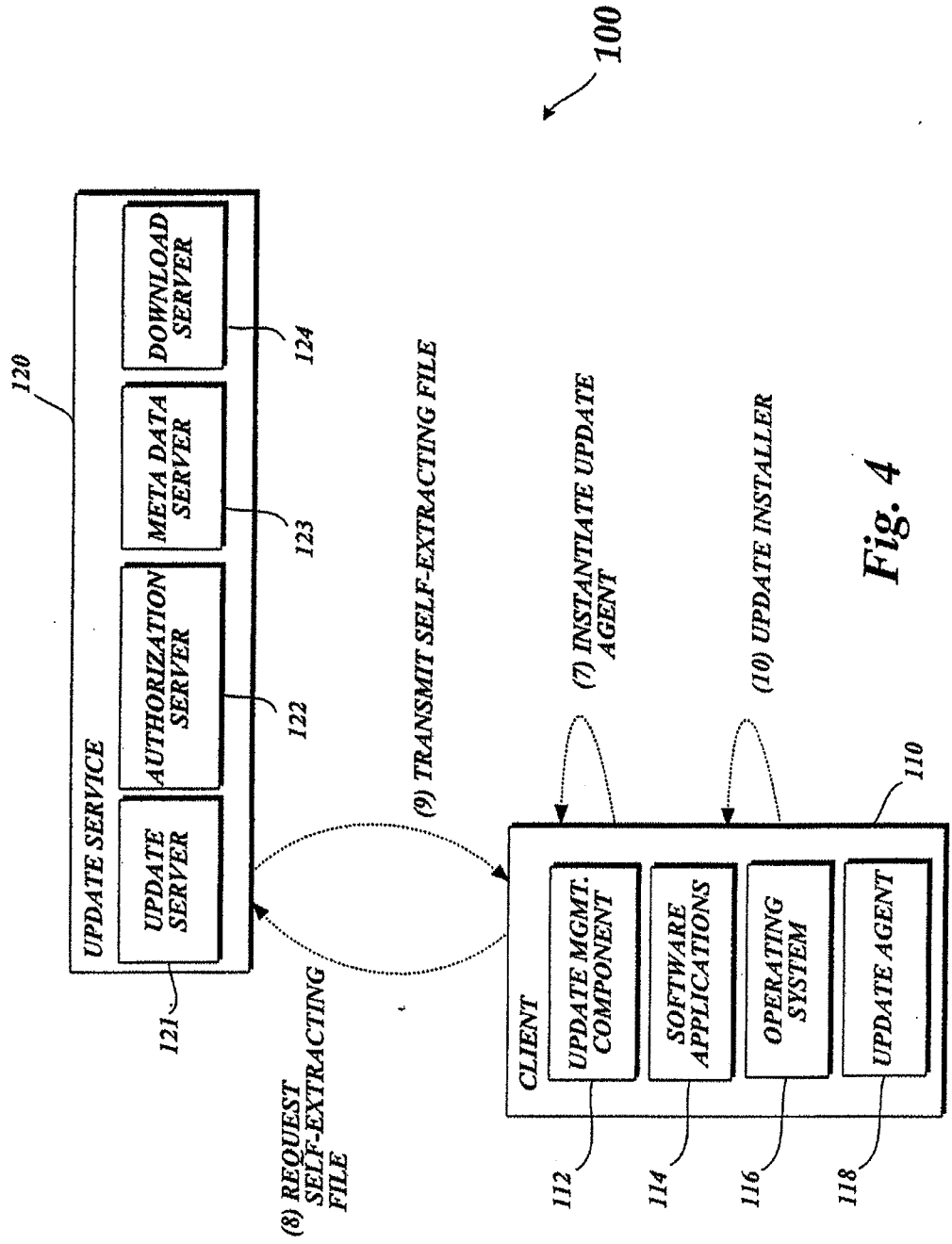

100
120
UPDATE SERVICE
UPDATE SERVER
AUTHORIZATION SERVER
META DATA SERVER
DOWNLOAD SERVER
121
122
123
124
(8) REQUEST SELF-EXTRACTING FILE
(9) TRANSMIT SELF-EXTRACTING FILE
(7) INSTANTIATE UPDATE AGENT
(10) UPDATE INSTALLER
CLIENT
UPDATE MGMT. COMPONENT
SOFTWARE APPLICATIONS
OPERATING SYSTEM
UPDATE AGENT
110
112
114
116
118

Fig. 4

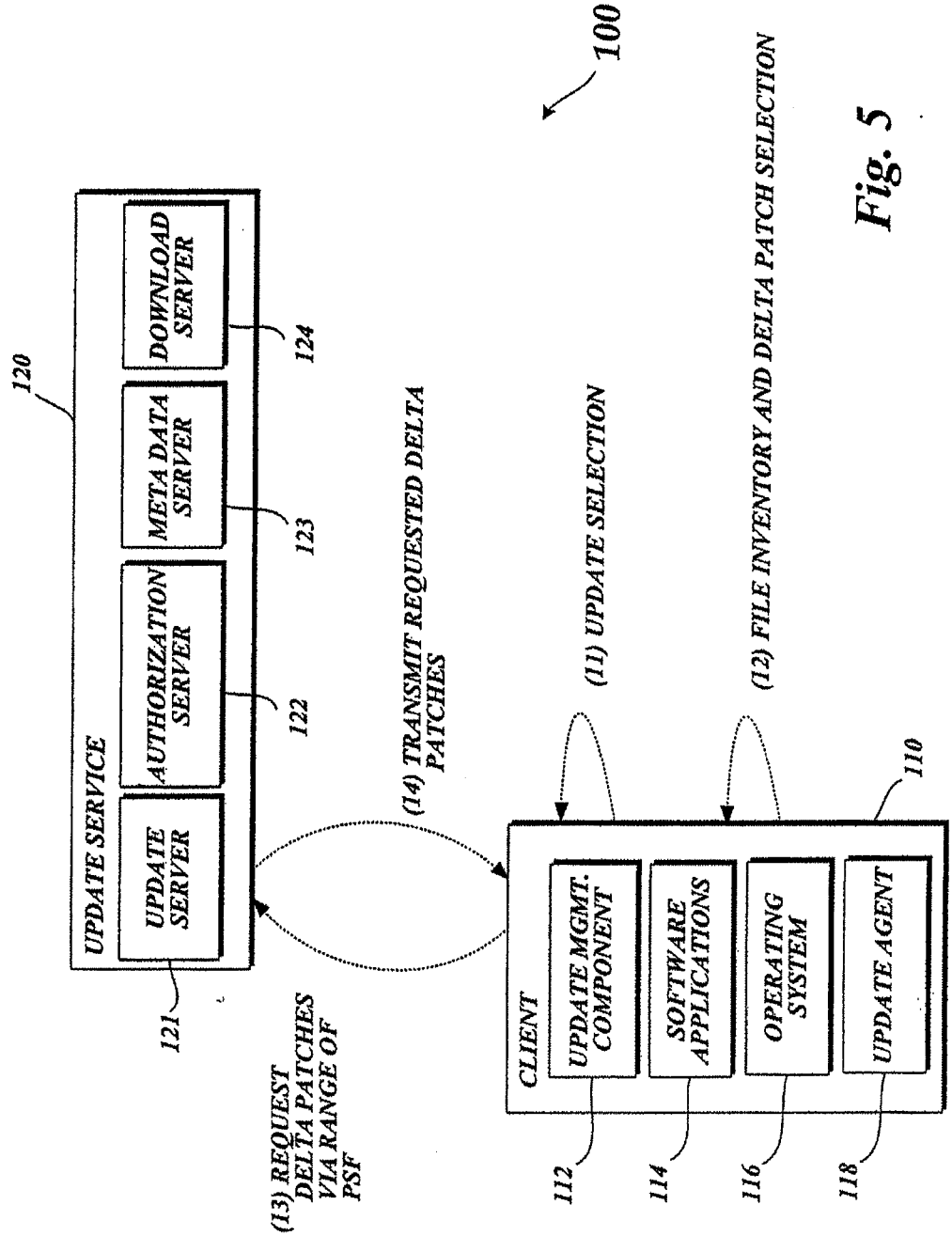

100
UPDATE SERVICE
120
UPDATE SERVER
AUTHORIZATION SERVER
META DATA SERVER
DOWNLOAD SERVER
121
122
123
124
(13) REQUEST DELTA PATCHES VIA RANGE OF PSF
(14) TRANSMIT REQUESTED DELTA PATCHES
(11) UPDATE SELECTION
(12) FILE INVENTORY AND DELTA PATCH SELECTION
CLIENT
110
UPDATE MGMT. COMPONENT
SOFTWARE APPLICATIONS
OPERATING SYSTEM
UPDATE AGENT
112
114
116
118

Fig. 5

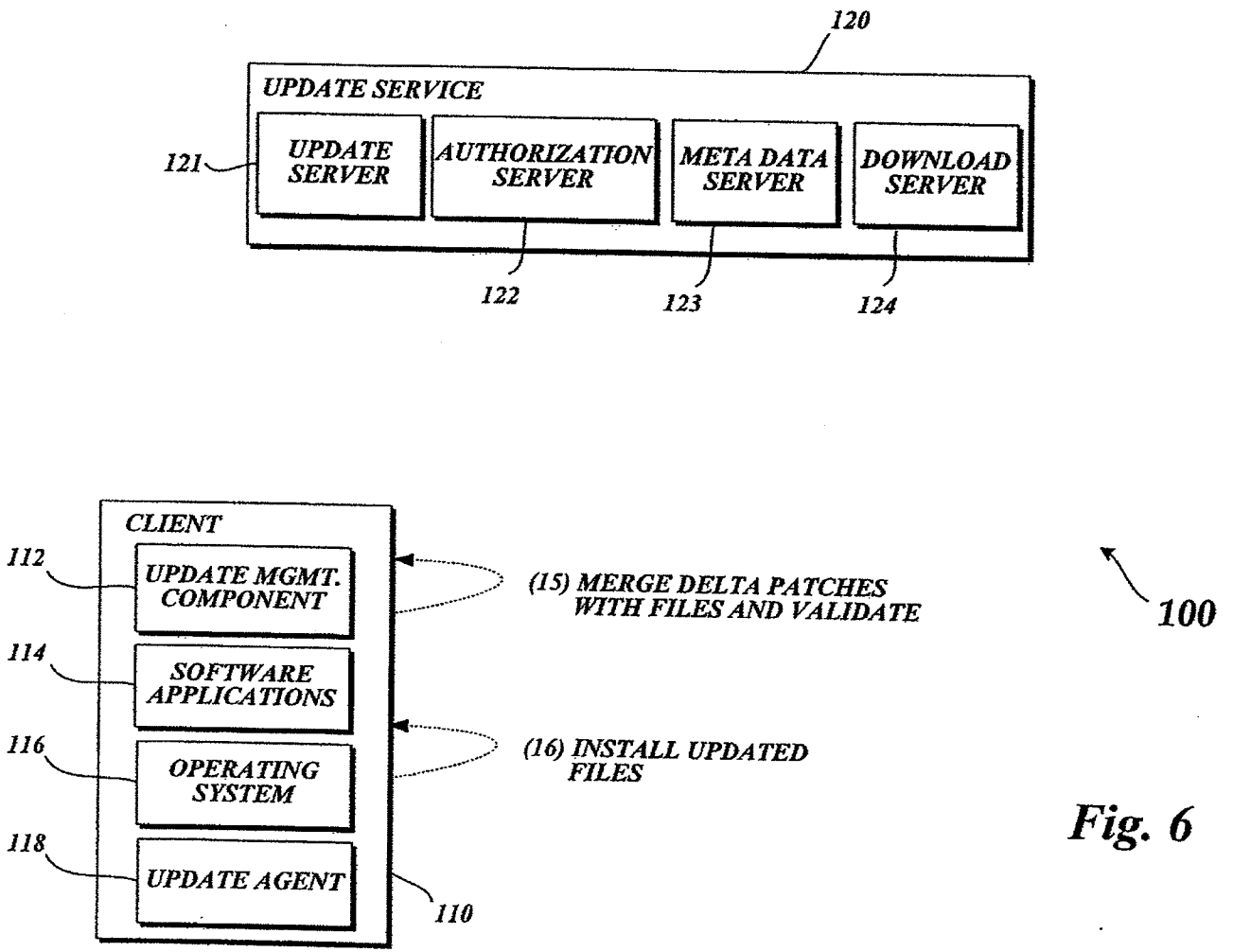

120
UPDATE SERVICE
121
UPDATE SERVER
AUTHORIZATION SERVER
META DATA SERVER
DOWNLOAD SERVER
122
123
124
CLIENT
112
UPDATE MGMT. COMPONENT
114
SOFTWARE APPLICATIONS
116
OPERATING SYSTEM
118
UPDATE AGENT
110
(15) MERGE DELTA PATCHES WITH FILES AND VALIDATE
(16) INSTALL UPDATED FILES
100

Fig. 6

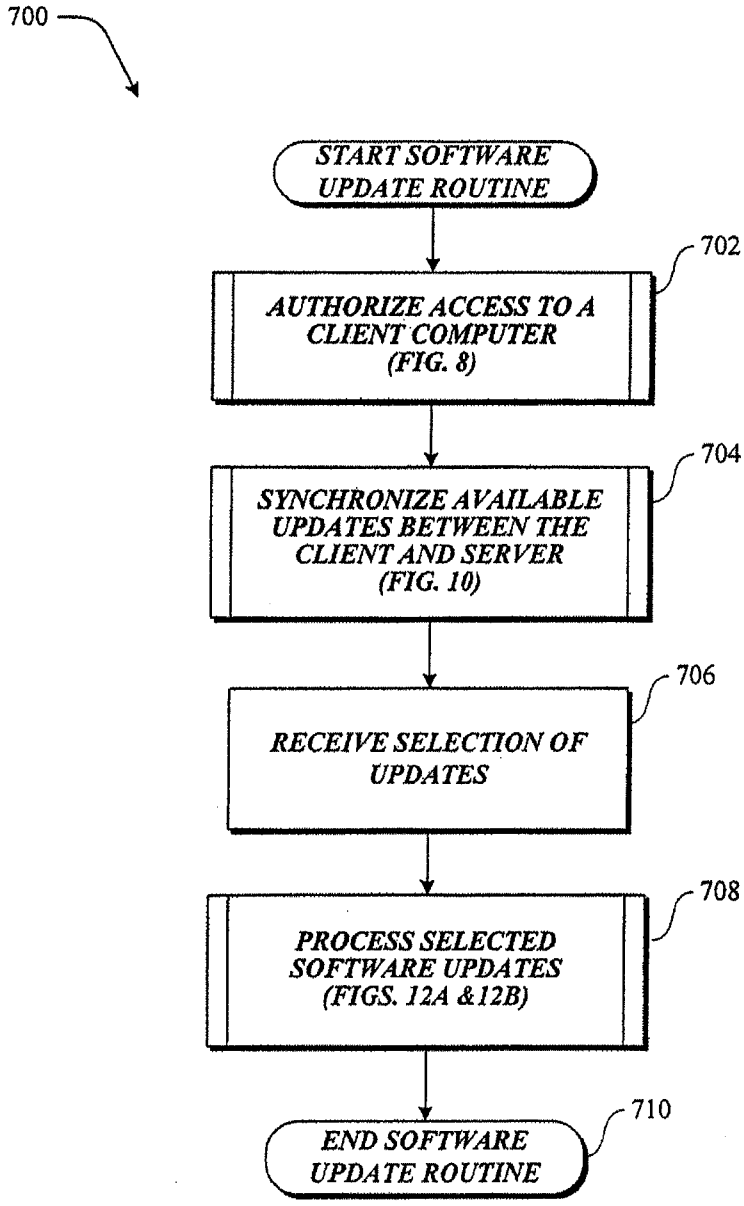

700
START SOFTWARE UPDATE ROUTINE
702
AUTHORIZE ACCESS TO A CLIENT COMPUTER (FIG. 8)
704
SYNCHRONIZE AVAILABLE UPDATES BETWEEN THE CLIENT AND SERVER (FIG. 10)
706
RECEIVE SELECTION OF UPDATES
708
PROCESS SELECTED SOFTWARE UPDATES (FIGS. 12A &12B)
710
END SOFTWARE UPDATE ROUTINE

Fig. 7

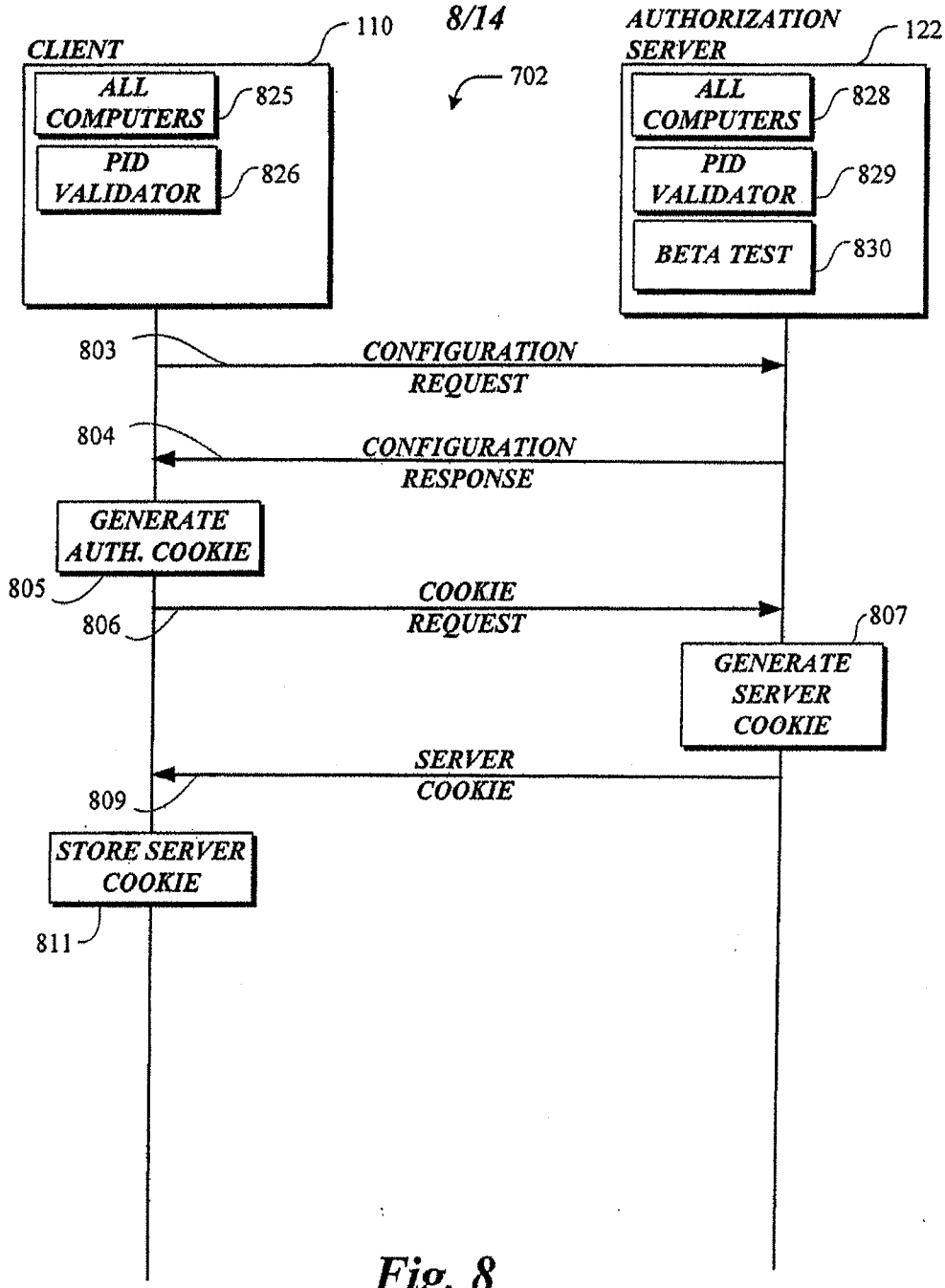

CLIENT
110
ALL COMPUTERS
825
PID VALIDATOR
826
702
AUTHORIZATION SERVER
122
ALL COMPUTERS
828
PID VALIDATOR
829
BETA TEST
830
803
CONFIGURATION REQUEST
804
CONFIGURATION RESPONSE
GENERATE AUTH. COOKIE
805
806
COOKIE REQUEST
807
GENERATE SERVER COOKIE
SERVER COOKIE
809
STORE SERVER COOKIE
811

Fig. 8

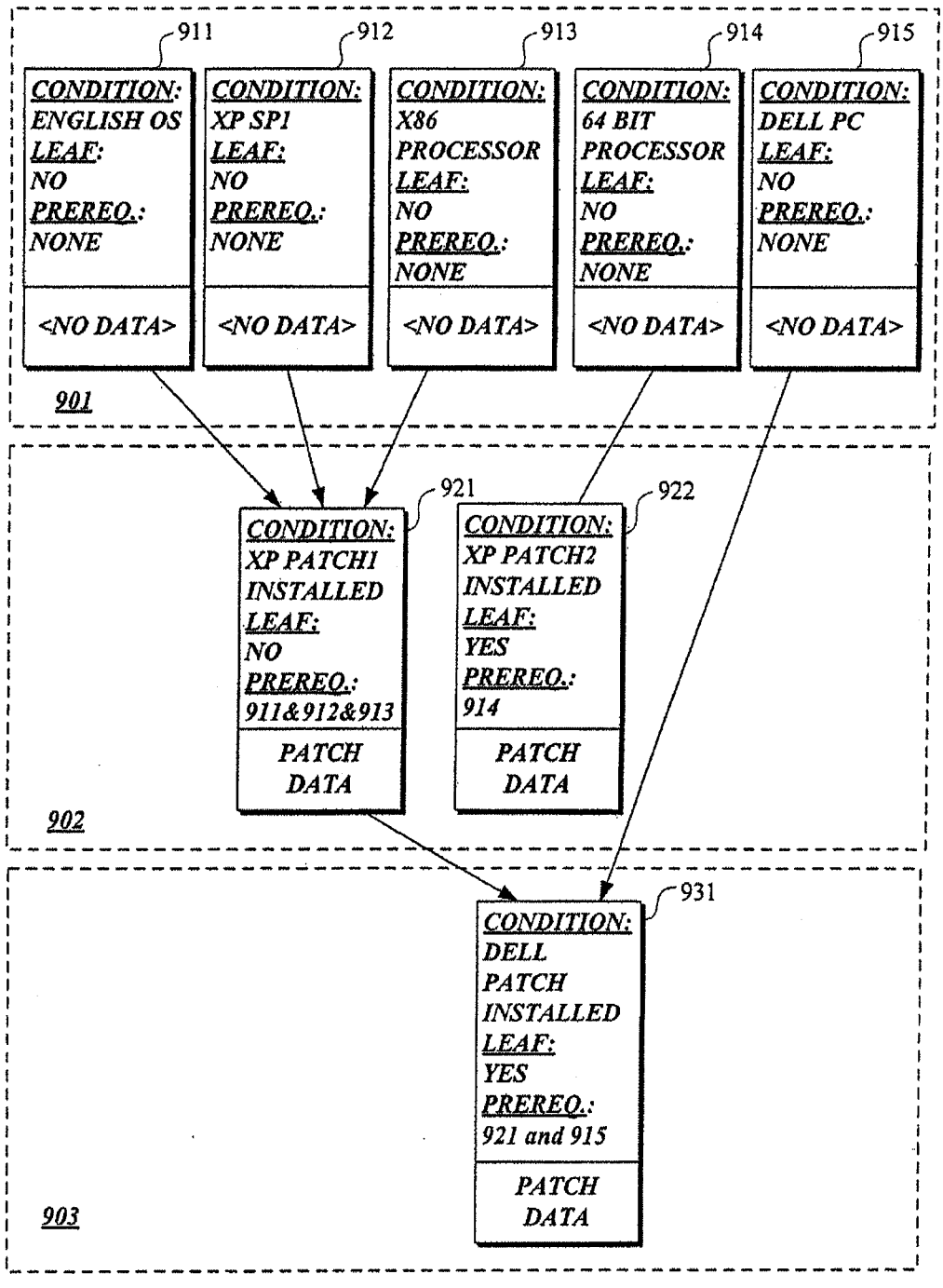

911
912
913
914
915
CONDITION: ENGLISH OS LEAF: NO PREREQ.: NONE
CONDITION: XP SP1 LEAF: NO PREREQ.: NONE
CONDITION: X86 PROCESSOR LEAF: NO PREREQ.: NONE
CONDITION: 64 BIT PROCESSOR LEAF: NO PREREQ.: NONE
CONDITION: DELL PC LEAF: NO PREREQ.: NONE
<NO DATA>
<NO DATA>
<NO DATA>
<NO DATA>
<NO DATA>
901
921
922
CONDITION: XP PATCH1 INSTALLED LEAF: NO PREREQ.: 911&912&913
CONDITION: XP PATCH2 INSTALLED LEAF: YES PREREQ.: 914
PATCH DATA
PATCH DATA
902
931
CONDITION: DELL PATCH INSTALLED LEAF: YES PREREQ.: 921 and 915
PATCH DATA
903
900

Fig. 9

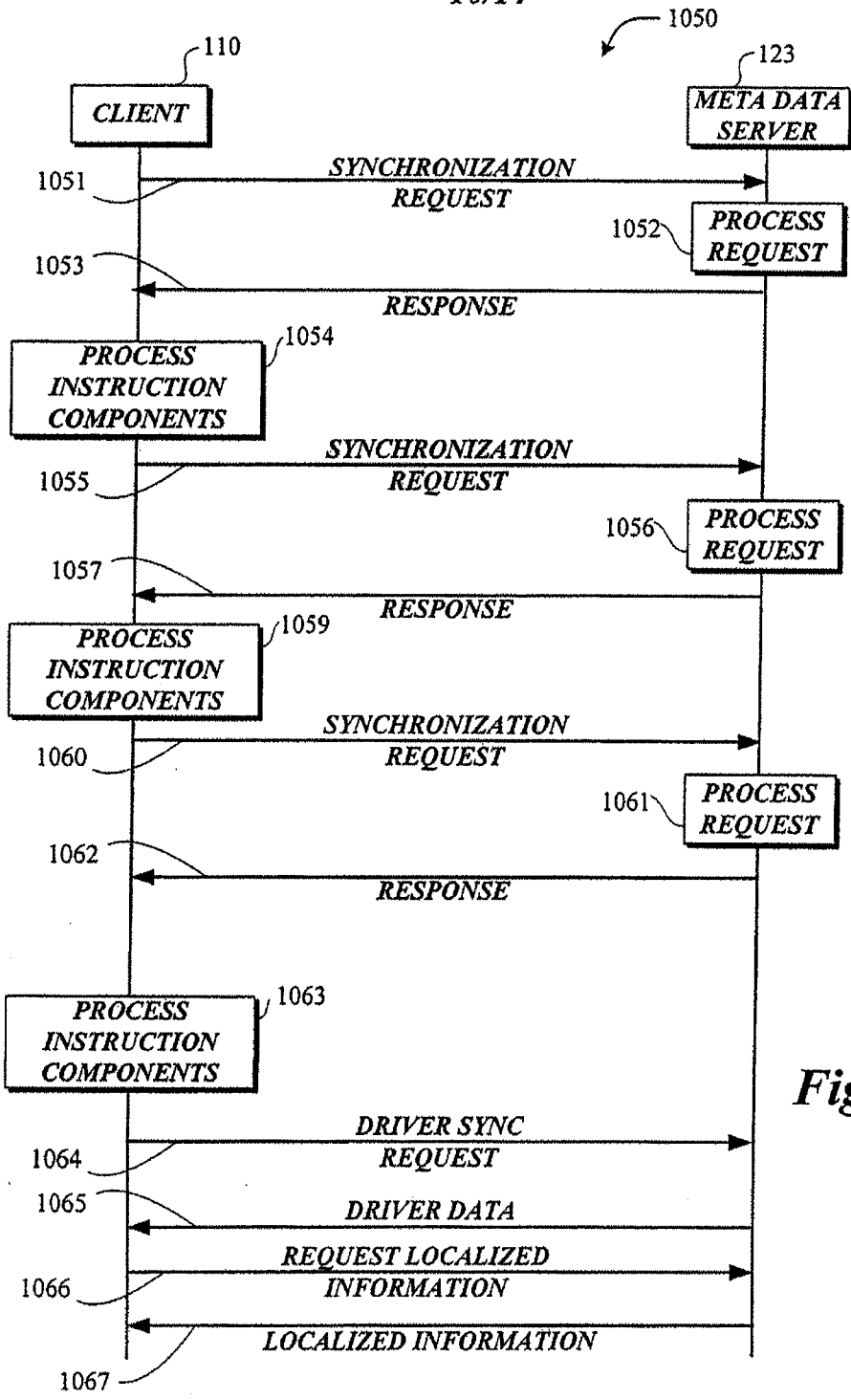
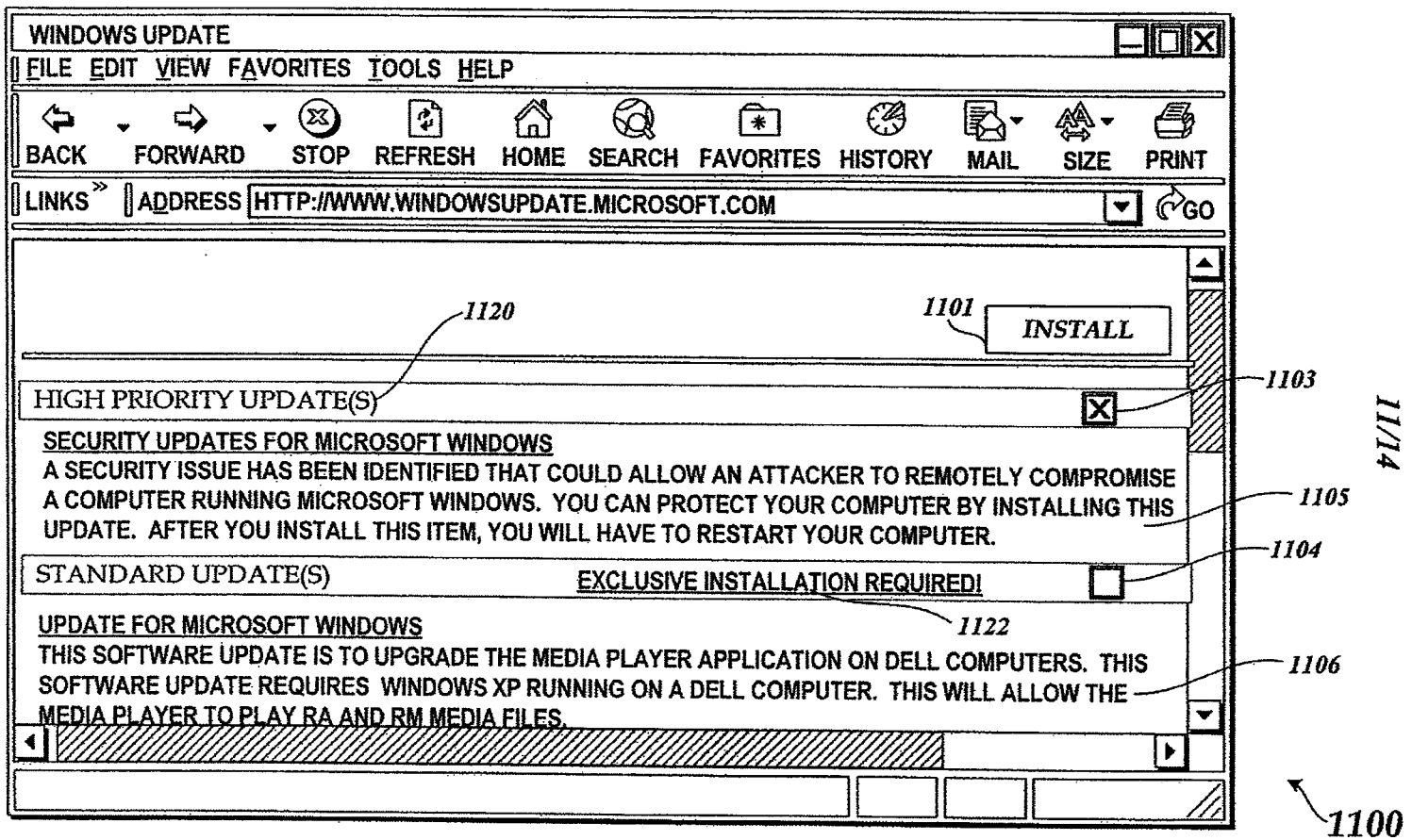

1050
110
CLIENT
123
META DATA SERVER
1051
SYNCHRONIZATION REQUEST
1052
PROCESS REQUEST
1053
RESPONSE
1054
PROCESS INSTRUCTION COMPONENTS
1055
SYNCHRONIZATION REQUEST
1056
PROCESS REQUEST
1057
RESPONSE
1059
PROCESS INSTRUCTION COMPONENTS
1060
SYNCHRONIZATION REQUEST
1061
PROCESS REQUEST
1062
RESPONSE
1063
PROCESS INSTRUCTION COMPONENTS
1064
DRIVER SYNC REQUEST
1065
DRIVER DATA
1066
REQUEST LOCALIZED INFORMATION
LOCALIZED INFORMATION
1067

Fig.10


WINDOWS UPDATE
FILE EDIT VIEW FAVORITES TOOLS HELP
BACK FORWARD STOP REFRESH HOME SEARCH FAVORITES HISTORY MAIL SIZE PRINT
LINKS ADDRESS HTTP://WWW.WINDOWSUPDATE.MICROSOFT.COM GO
1120
1101
INSTALL
1103
HIGH PRIORITY UPDATE(S)
SECURITY UPDATES FOR MICROSOFT WINDOWS
A SECURITY ISSUE HAS BEEN IDENTIFIED THAT COULD ALLOW AN ATTACKER TO REMOTELY COMPROMISE A COMPUTER RUNNING MICROSOFT WINDOWS. YOU CAN PROTECT YOUR COMPUTER BY INSTALLING THIS UPDATE. AFTER YOU INSTALL THIS ITEM, YOU WILL HAVE TO RESTART YOUR COMPUTER.
1105
1104
STANDARD UPDATE(S)
EXCLUSIVE INSTALLATION REQUIRED!
1122
UPDATE FOR MICROSOFT WINDOWS
THIS SOFTWARE UPDATE IS TO UPGRADE THE MEDIA PLAYER APPLICATION ON DELL COMPUTERS. THIS SOFTWARE UPDATE REQUIRES WINDOWS XP RUNNING ON A DELL COMPUTER. THIS WILL ALLOW THE MEDIA PLAYER TO PLAY RA AND RM MEDIA FILES.
1106
1100

11/14

Fig. 11

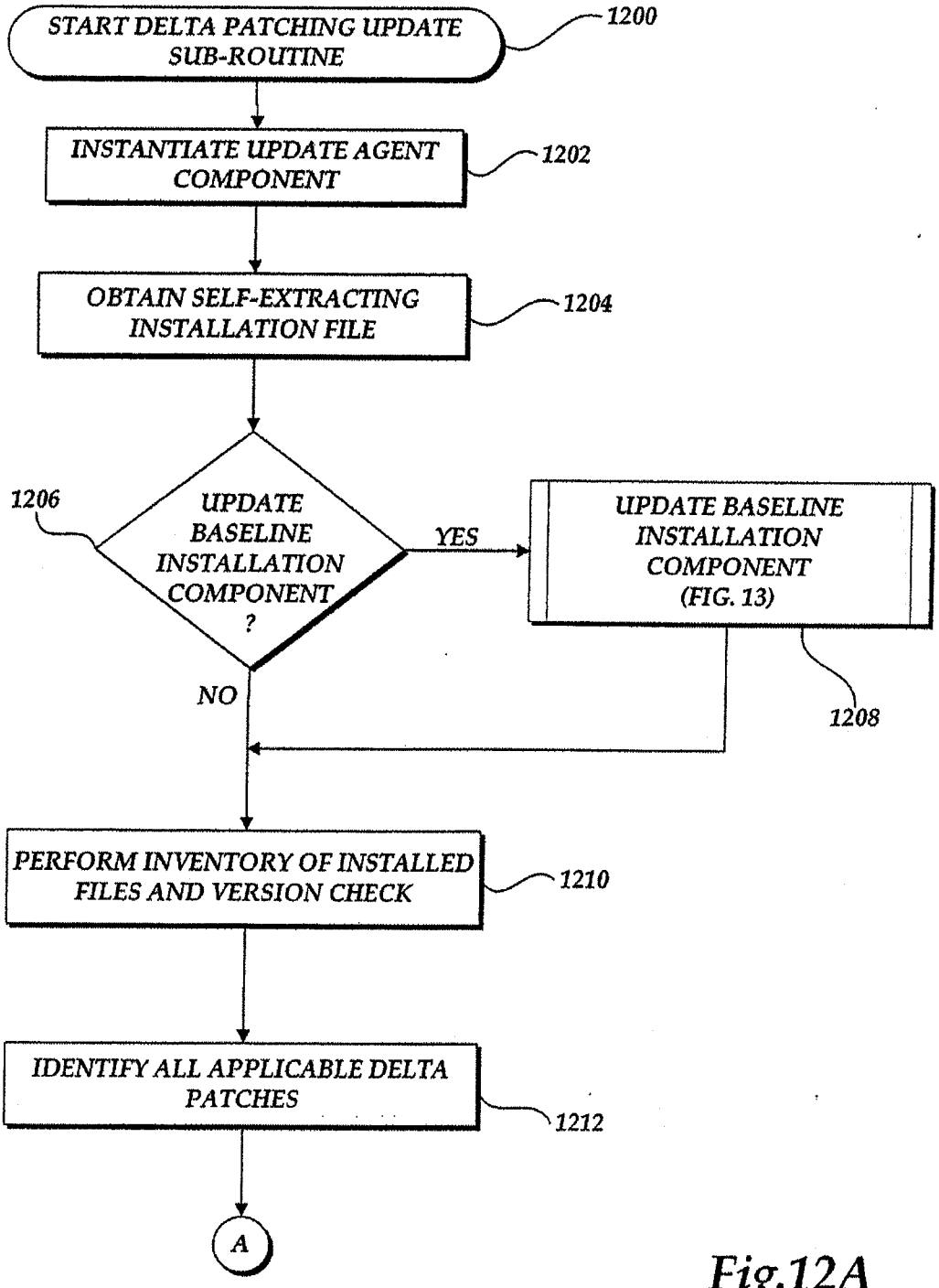

START DELTA PATCHING UPDATE SUB-ROUTINE
1200
INSTANTIATE UPDATE AGENT COMPONENT
1202
OBTAIN SELF-EXTRACTING INSTALLATION FILE
1204
1206
UPDATE BASELINE INSTALLATION COMPONENT ?
YES
UPDATE BASELINE INSTALLATION COMPONENT (FIG. 13)
1208
NO
PERFORM INVENTORY OF INSTALLED FILES AND VERSION CHECK
1210
IDENTIFY ALL APPLICABLE DELTA PATCHES
1212
A

Fig.12A

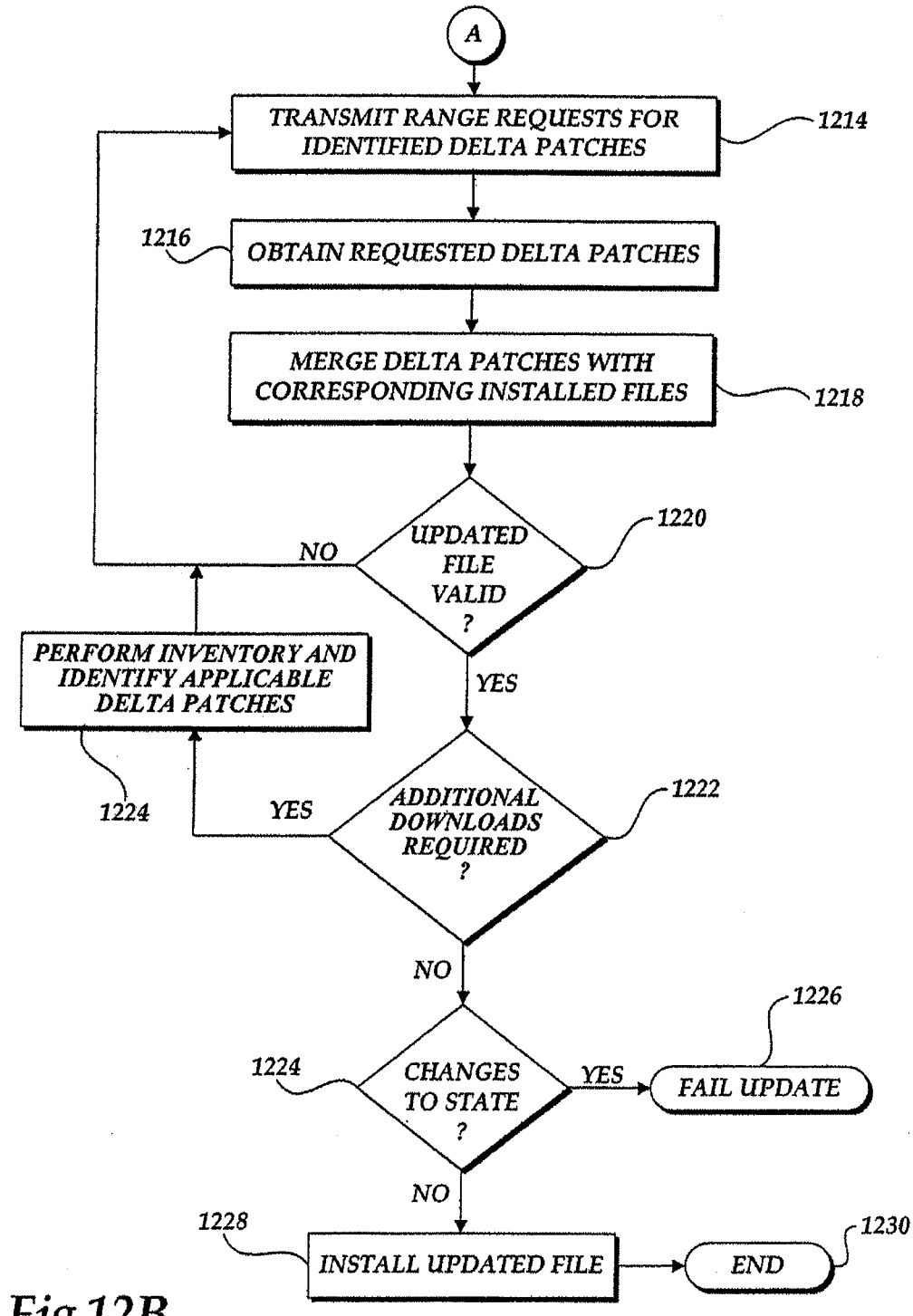

A
TRANSMIT RANGE REQUESTS FOR IDENTIFIED DELTA PATCHES
1214
1216
OBTAIN REQUESTED DELTA PATCHES
MERGE DELTA PATCHES WITH CORRESPONDING INSTALLED FILES
1218
UPDATED FILE VALID ?
1220
NO
YES
PERFORM INVENTORY AND IDENTIFY APPLICABLE DELTA PATCHES
1224
YES
ADDITIONAL DOWNLOADS REQUIRED ?
1222
NO
1226
1224
CHANGES TO STATE ?
YES
FAIL UPDATE
NO
1228
INSTALL UPDATED FILE
END
1230

Fig.12B

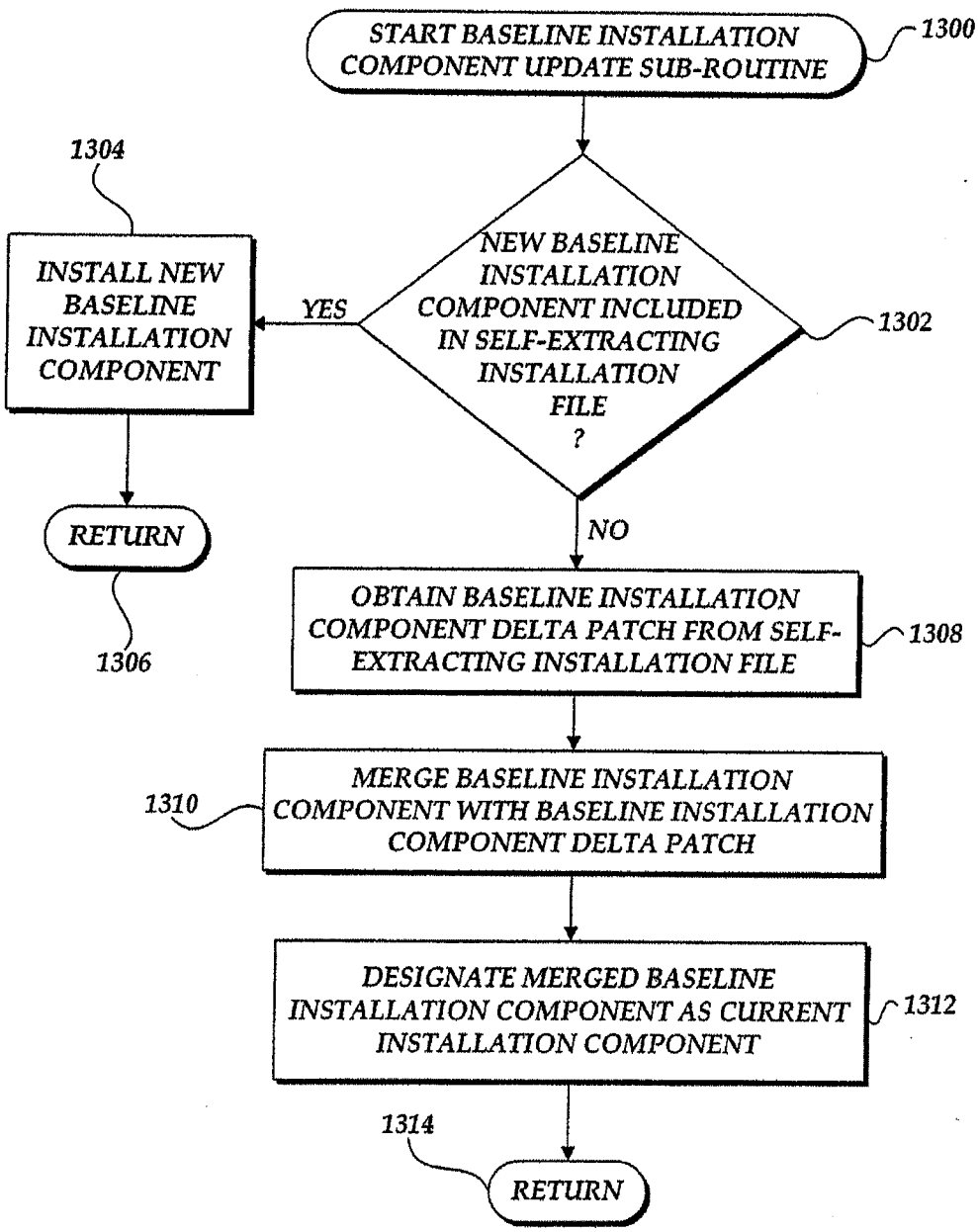

START BASELINE INSTALLATION COMPONENT UPDATE SUB-ROUTINE
1300
NEW BASELINE INSTALLATION COMPONENT INCLUDED IN SELF-EXTRACTING INSTALLATION FILE ?
1302
YES
1304
INSTALL NEW BASELINE INSTALLATION COMPONENT
RETURN
1306
NO
OBTAIN BASELINE INSTALLATION COMPONENT DELTA PATCH FROM SELF-EXTRACTING INSTALLATION FILE
1308
MERGE BASELINE INSTALLATION COMPONENT WITH BASELINE INSTALLATION COMPONENT DELTA PATCH
1310
DESIGNATE MERGED BASELINE INSTALLATION COMPONENT AS CURRENT INSTALLATION COMPONENT
1312
1314
RETURN

Fig.13