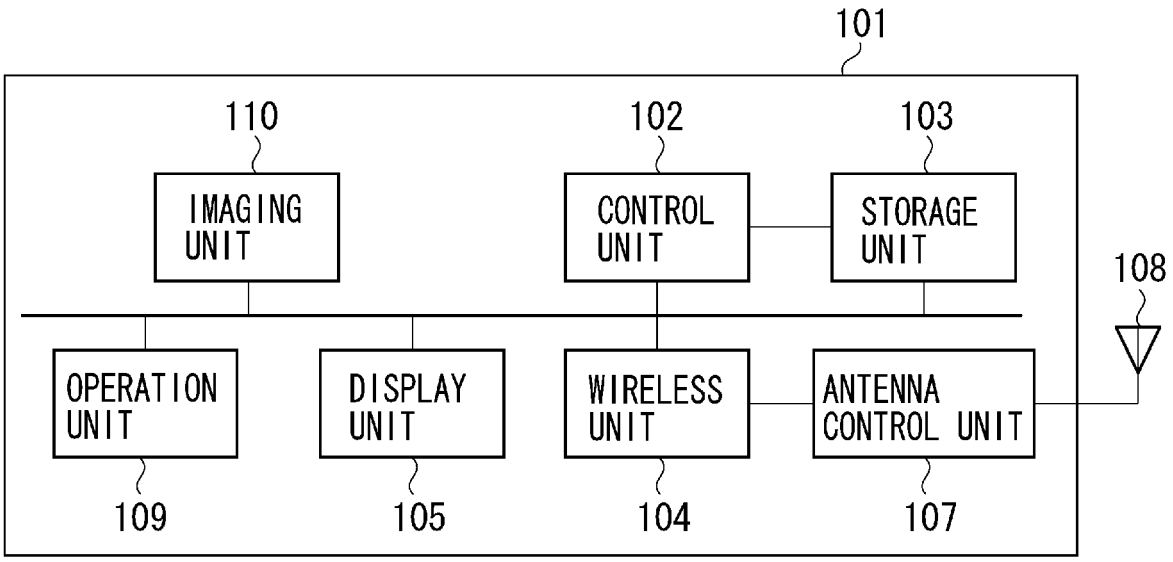
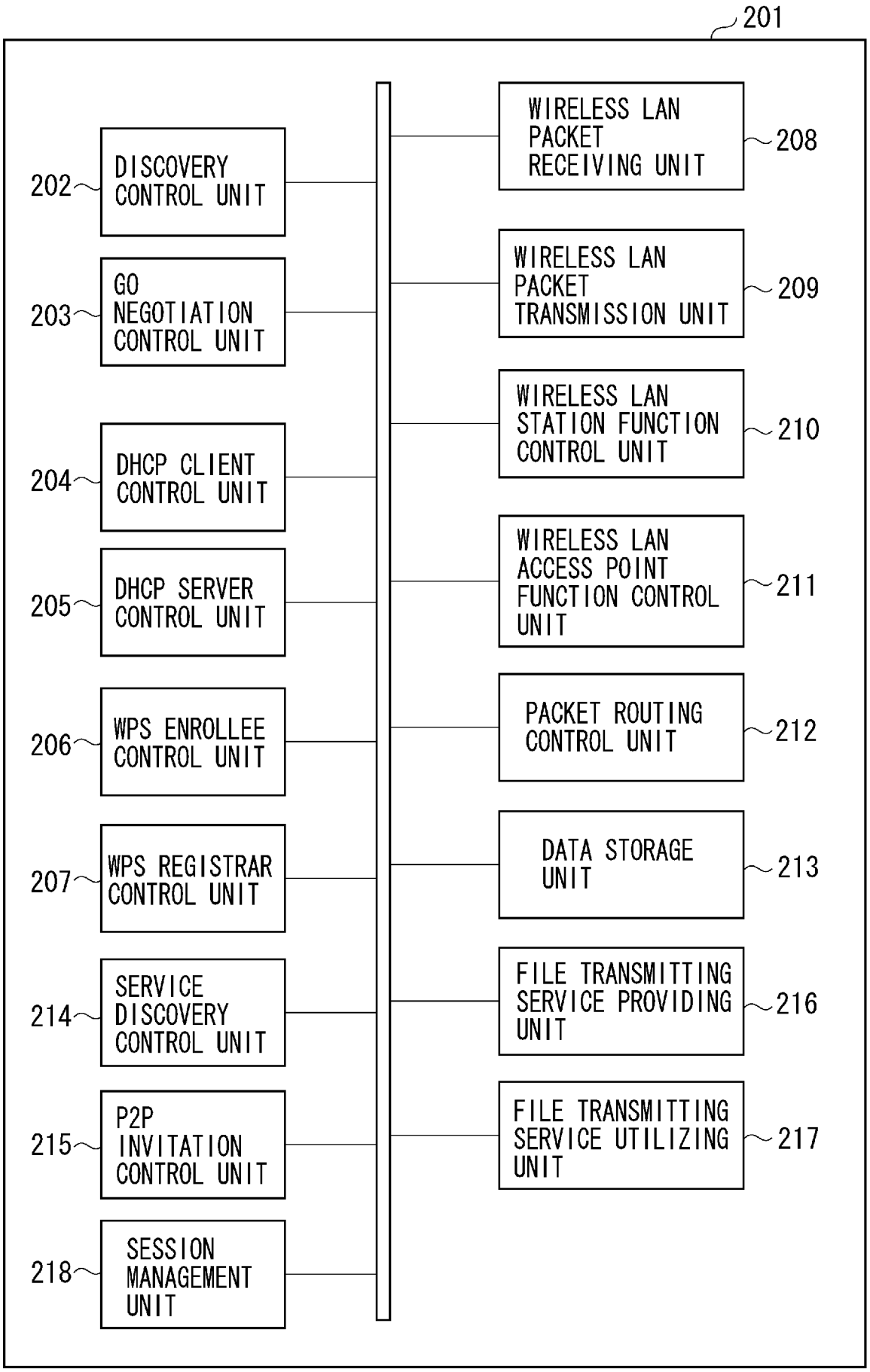
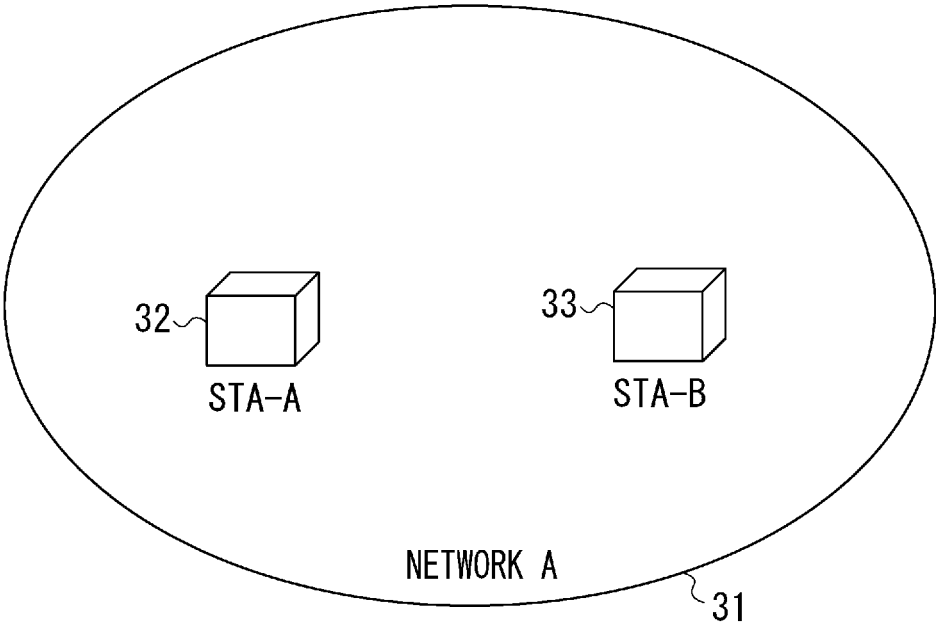
[Fig. 1]


101
110
IMAGING UNIT
102
CONTROL UNIT
103
STORAGE UNIT
108
OPERATION UNIT
DISPLAY UNIT
WIRELESS UNIT
ANTENNA CONTROL UNIT
109
105
104
107

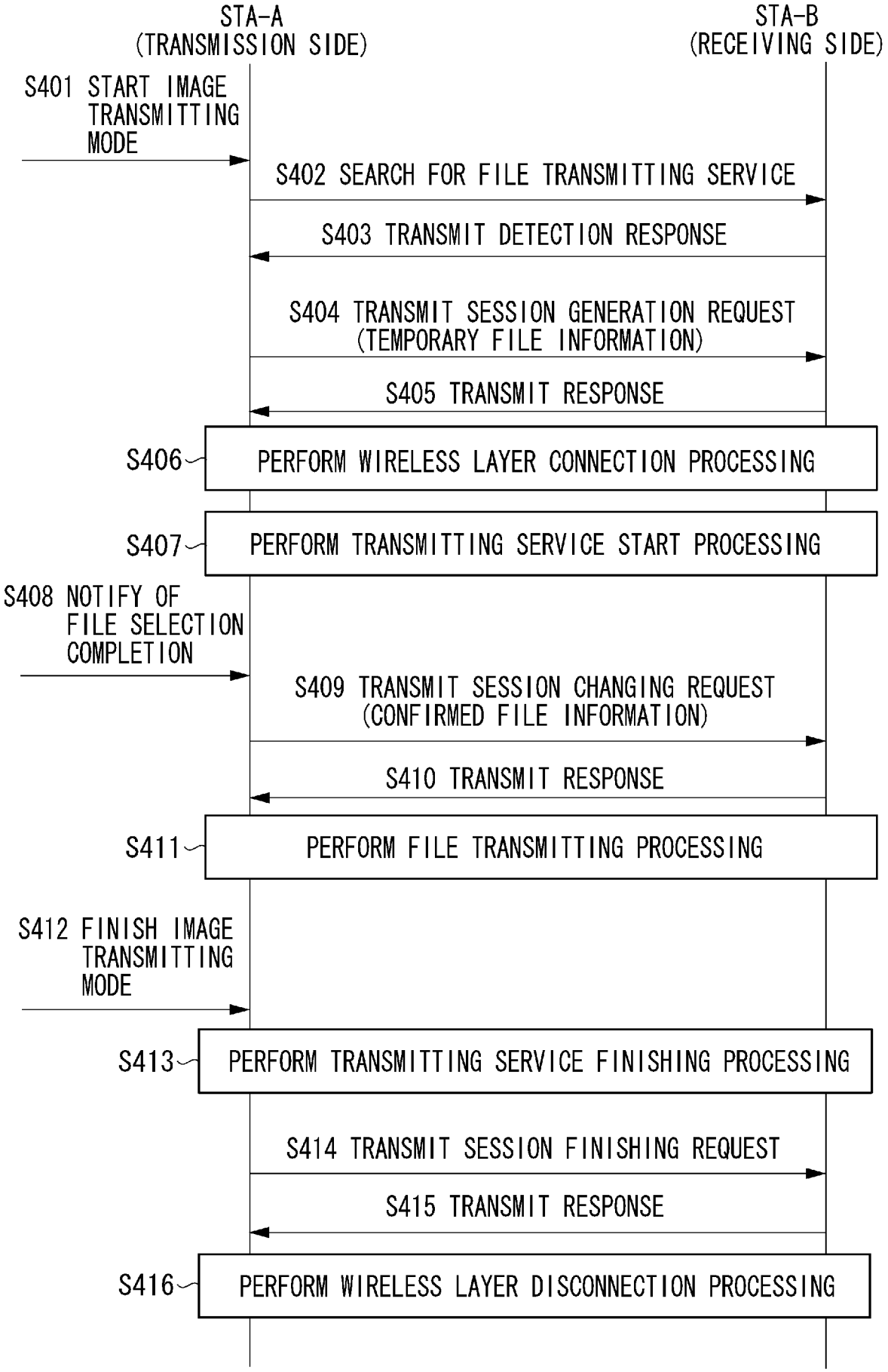
[Fig. 2]


201
202
DISCOVERY CONTROL UNIT
203
GO NEGOTIATION CONTROL UNIT
204
DHCP CLIENT CONTROL UNIT
205
DHCP SERVER CONTROL UNIT
206
WPS ENROLLEE CONTROL UNIT
207
WPS REGISTRAR CONTROL UNIT
214
SERVICE DISCOVERY CONTROL UNIT
215
P2P INVITATION CONTROL UNIT
218
SESSION MANAGEMENT UNIT
208
WIRELESS LAN PACKET RECEIVING UNIT
209
WIRELESS LAN PACKET TRANSMISSION UNIT
210
WIRELESS LAN STATION FUNCTION CONTROL UNIT
211
WIRELESS LAN ACCESS POINT FUNCTION CONTROL UNIT
212
PACKET ROUTING CONTROL UNIT
213
DATA STORAGE UNIT
216
FILE TRANSMITTING SERVICE PROVIDING UNIT
217
FILE TRANSMITTING SERVICE UTILIZING UNIT

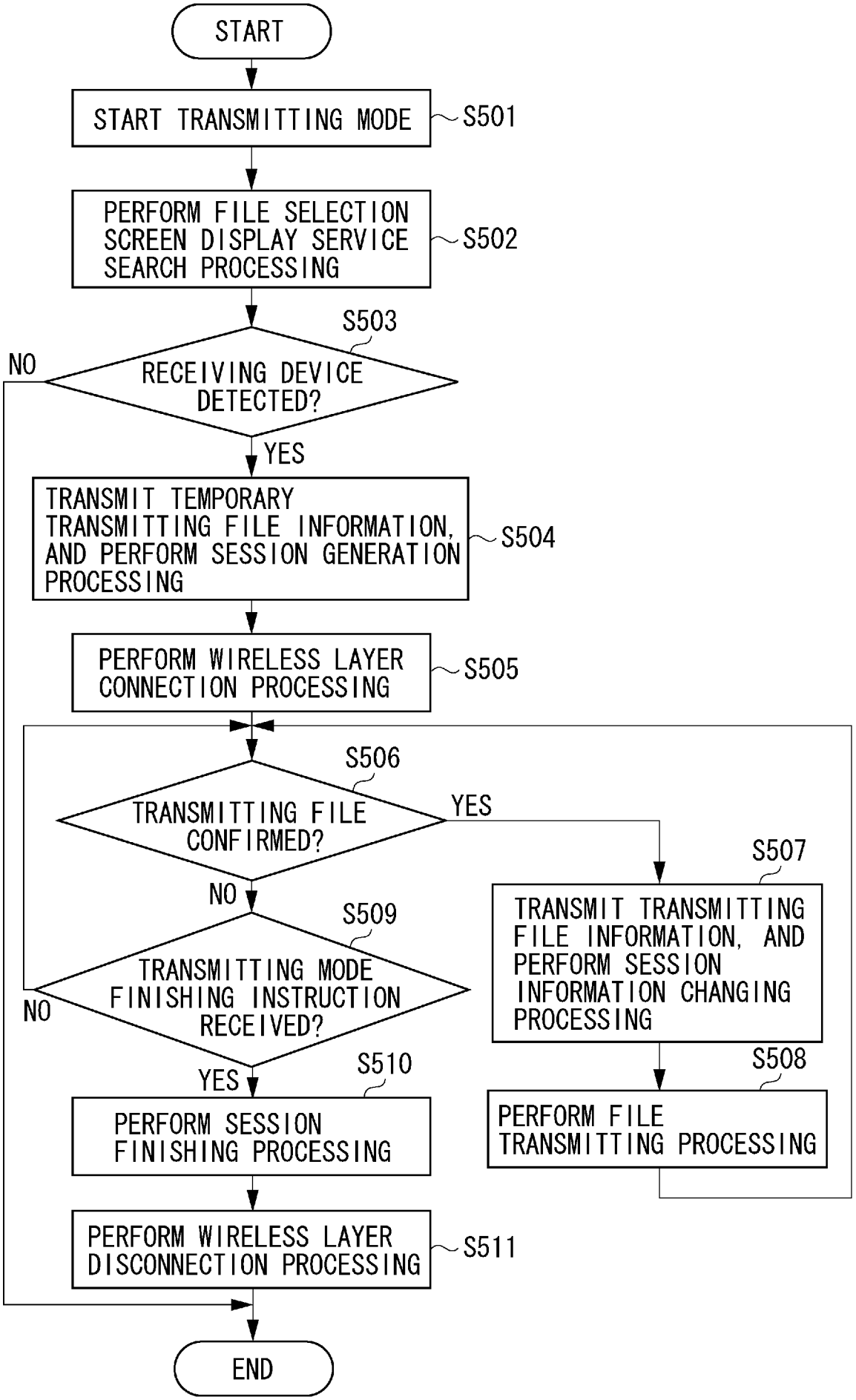
[Fig. 3]



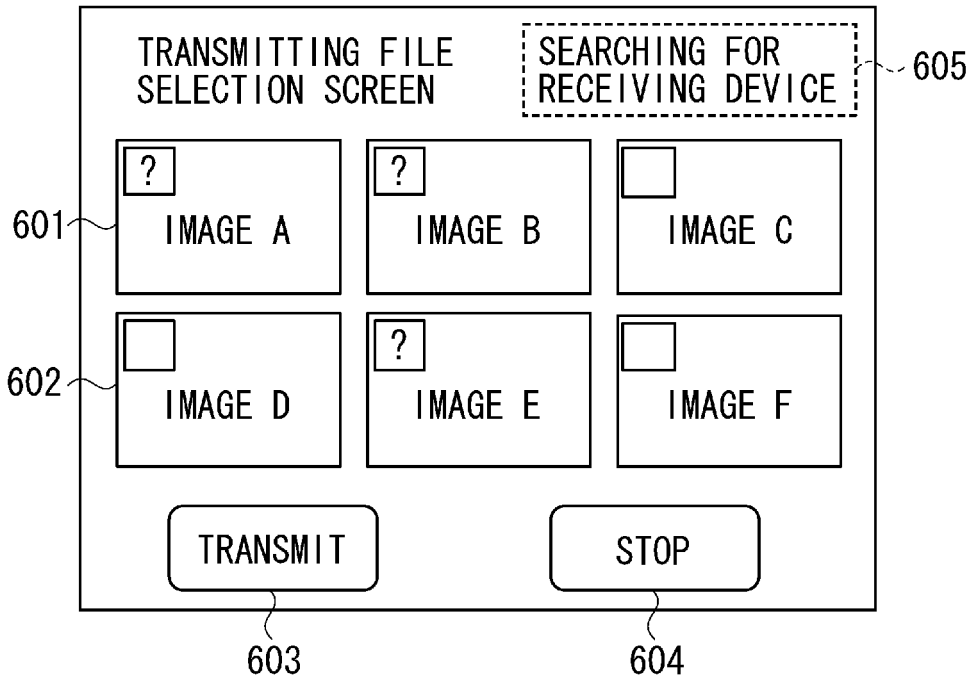
[Fig. 4]


STA-A
(TRANSMISSION SIDE)
STA-B
(RECEIVING SIDE)
S401 START IMAGE TRANSMITTING MODE
S402 SEARCH FOR FILE TRANSMITTING SERVICE
S403 TRANSMIT DETECTION RESPONSE
S404 TRANSMIT SESSION GENERATION REQUEST (TEMPORARY FILE INFORMATION)
S405 TRANSMIT RESPONSE
S406
PERFORM WIRELESS LAYER CONNECTION PROCESSING
S407
PERFORM TRANSMITTING SERVICE START PROCESSING
S408 NOTIFY OF FILE SELECTION COMPLETION
S409 TRANSMIT SESSION CHANGING REQUEST (CONFIRMED FILE INFORMATION)
S410 TRANSMIT RESPONSE
S411
PERFORM FILE TRANSMITTING PROCESSING
S412 FINISH IMAGE TRANSMITTING MODE
S413
PERFORM TRANSMITTING SERVICE FINISHING PROCESSING
S414 TRANSMIT SESSION FINISHING REQUEST
S415 TRANSMIT RESPONSE
S416
PERFORM WIRELESS LAYER DISCONNECTION PROCESSING

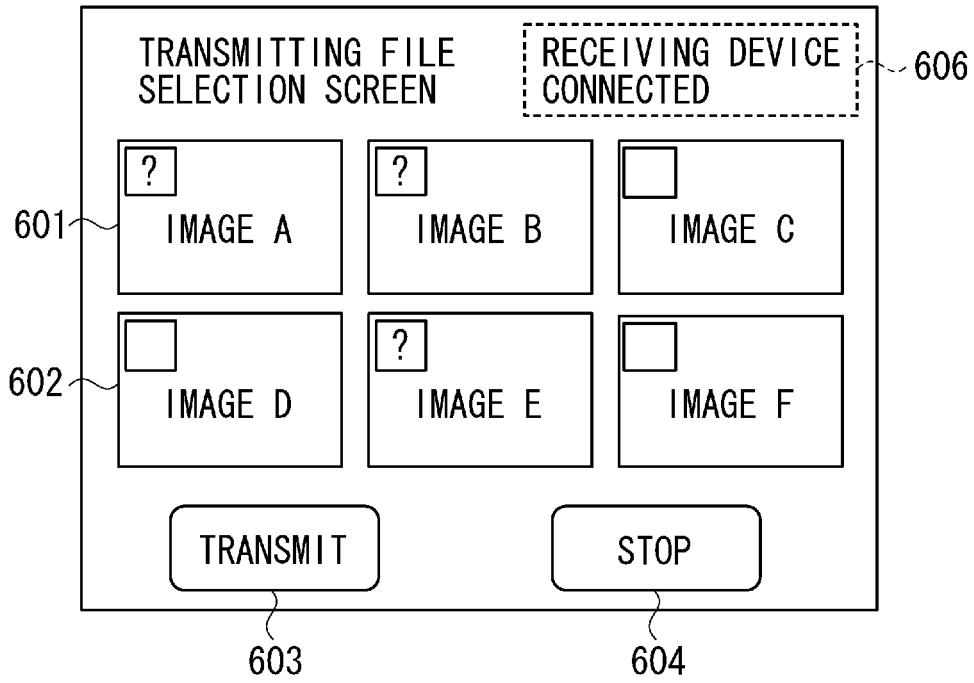
[Fig. 5]


START
START TRANSMITTING MODE
S501
PERFORM FILE SELECTION SCREEN DISPLAY SERVICE SEARCH PROCESSING
S502
S503
RECEIVING DEVICE DETECTED?
NO
YES
TRANSMIT TEMPORARY TRANSMITTING FILE INFORMATION, AND PERFORM SESSION GENERATION PROCESSING
S504
PERFORM WIRELESS LAYER CONNECTION PROCESSING
S505
S506
TRANSMITTING FILE CONFIRMED?
YES
S507
NO
S509
TRANSMITTING MODE FINISHING INSTRUCTION RECEIVED?
NO
TRANSMIT TRANSMITTING FILE INFORMATION, AND PERFORM SESSION INFORMATION CHANGING PROCESSING
S508
YES
S510
PERFORM SESSION FINISHING PROCESSING
PERFORM FILE TRANSMITTING PROCESSING
PERFORM WIRELESS LAYER DISCONNECTION PROCESSING
S511
END

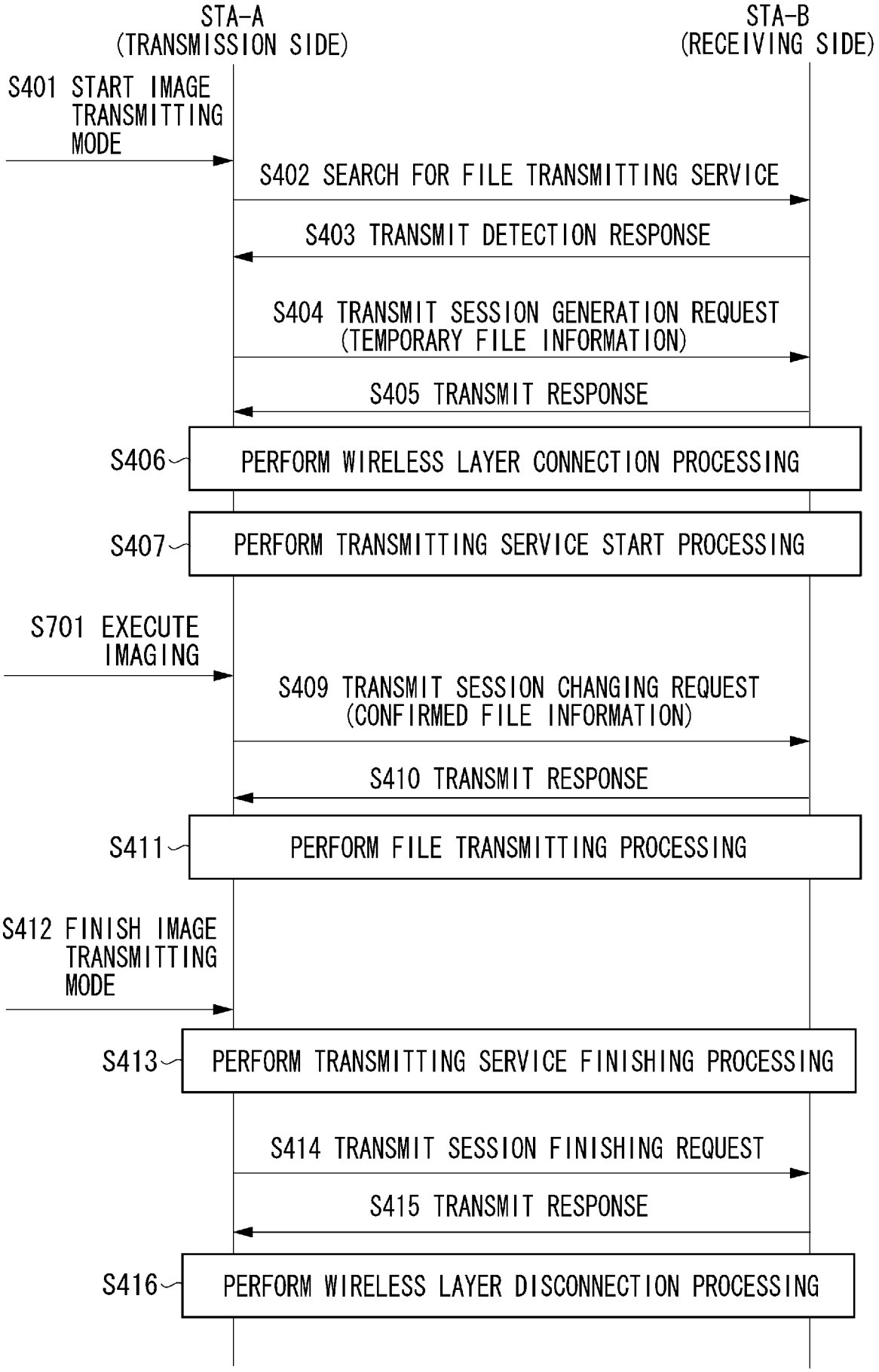
[Fig. 6A]


TRANSMITTING FILE SELECTION SCREEN
SEARCHING FOR RECEIVING DEVICE
605
IMAGE A
IMAGE B
IMAGE C
IMAGE D
IMAGE E
IMAGE F
601
602
TRANSMIT
STOP
603
604

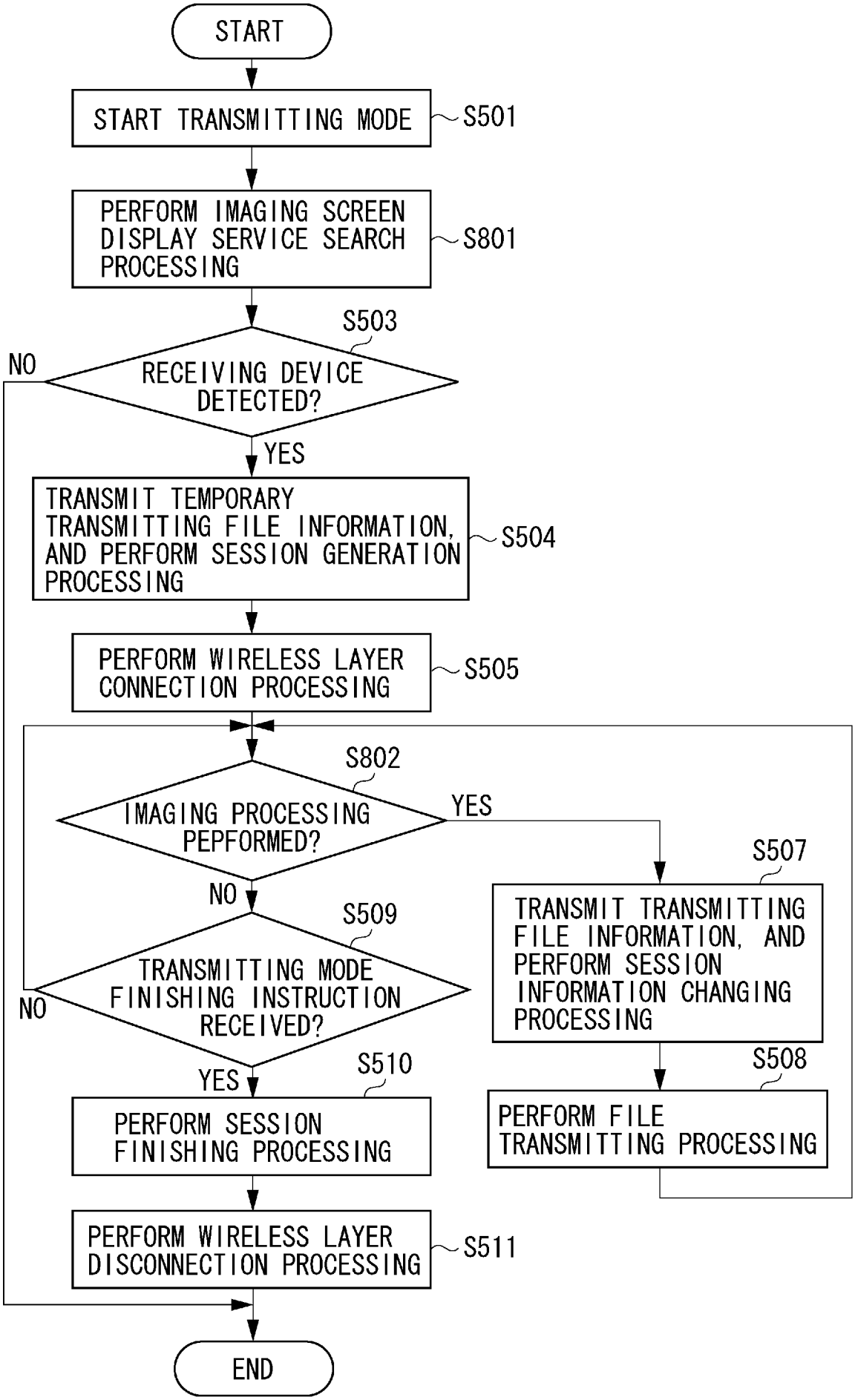
[Fig. 6B]


TRANSMITTING FILE SELECTION SCREEN
RECEIVING DEVICE CONNECTED
606
IMAGE A
IMAGE B
IMAGE C
IMAGE D
IMAGE E
IMAGE F
601
602
TRANSMIT
STOP
603
604

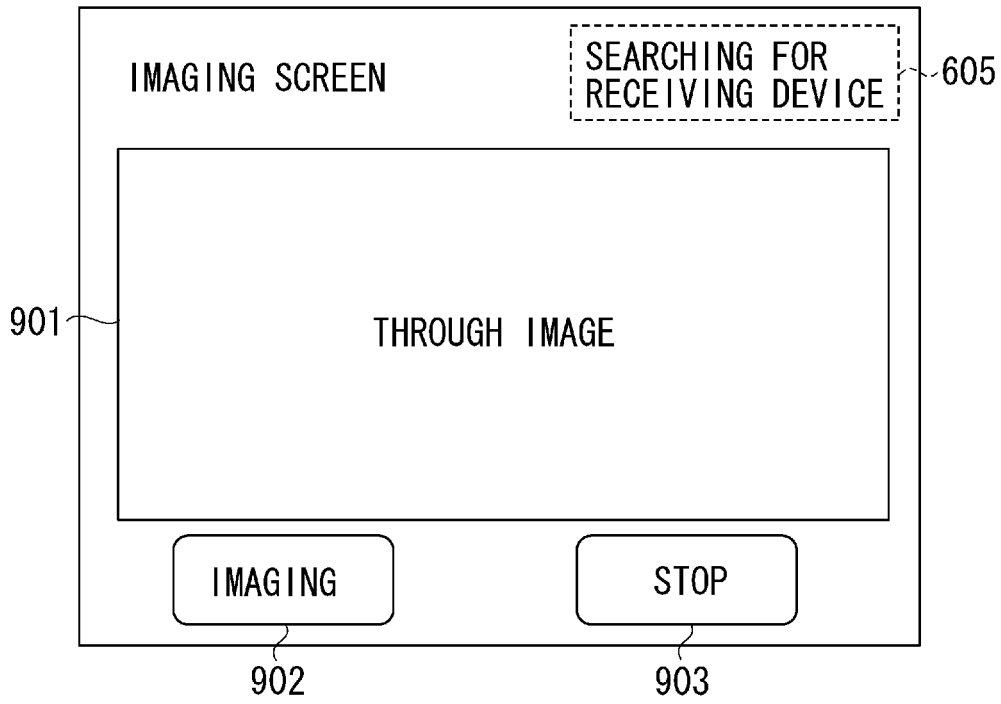
[Fig. 7]


STA-A
(TRANSMISSION SIDE)
STA-B
(RECEIVING SIDE)
S401 START IMAGE TRANSMITTING MODE
S402 SEARCH FOR FILE TRANSMITTING SERVICE
S403 TRANSMIT DETECTION RESPONSE
S404 TRANSMIT SESSION GENERATION REQUEST (TEMPORARY FILE INFORMATION)
S405 TRANSMIT RESPONSE
S406
PERFORM WIRELESS LAYER CONNECTION PROCESSING
S407
PERFORM TRANSMITTING SERVICE START PROCESSING
S701 EXECUTE IMAGING
S409 TRANSMIT SESSION CHANGING REQUEST (CONFIRMED FILE INFORMATION)
S410 TRANSMIT RESPONSE
S411
PERFORM FILE TRANSMITTING PROCESSING
S412 FINISH IMAGE TRANSMITTING MODE
S413
PERFORM TRANSMITTING SERVICE FINISHING PROCESSING
S414 TRANSMIT SESSION FINISHING REQUEST
S415 TRANSMIT RESPONSE
S416
PERFORM WIRELESS LAYER DISCONNECTION PROCESSING

[Fig. 8]


START
START TRANSMITTING MODE
S501
PERFORM IMAGING SCREEN DISPLAY SERVICE SEARCH PROCESSING
S801
S503
RECEIVING DEVICE DETECTED?
NO
YES
TRANSMIT TEMPORARY TRANSMITTING FILE INFORMATION, AND PERFORM SESSION GENERATION PROCESSING
S504
PERFORM WIRELESS LAYER CONNECTION PROCESSING
S505
S802
IMAGING PROCESSING PEPFORMED?
YES
S507
NO
S509
TRANSMITTING MODE FINISHING INSTRUCTION RECEIVED?
NO
TRANSMIT TRANSMITTING FILE INFORMATION, AND PERFORM SESSION INFORMATION CHANGING PROCESSING
S508
YES
S510
PERFORM SESSION FINISHING PROCESSING
PERFORM FILE TRANSMITTING PROCESSING
PERFORM WIRELESS LAYER DISCONNECTION PROCESSING
S511
END

[Fig. 9]


IMAGING SCREEN
SEARCHING FOR RECEIVING DEVICE
605
901
THROUGH IMAGE
IMAGING
STOP
902
903