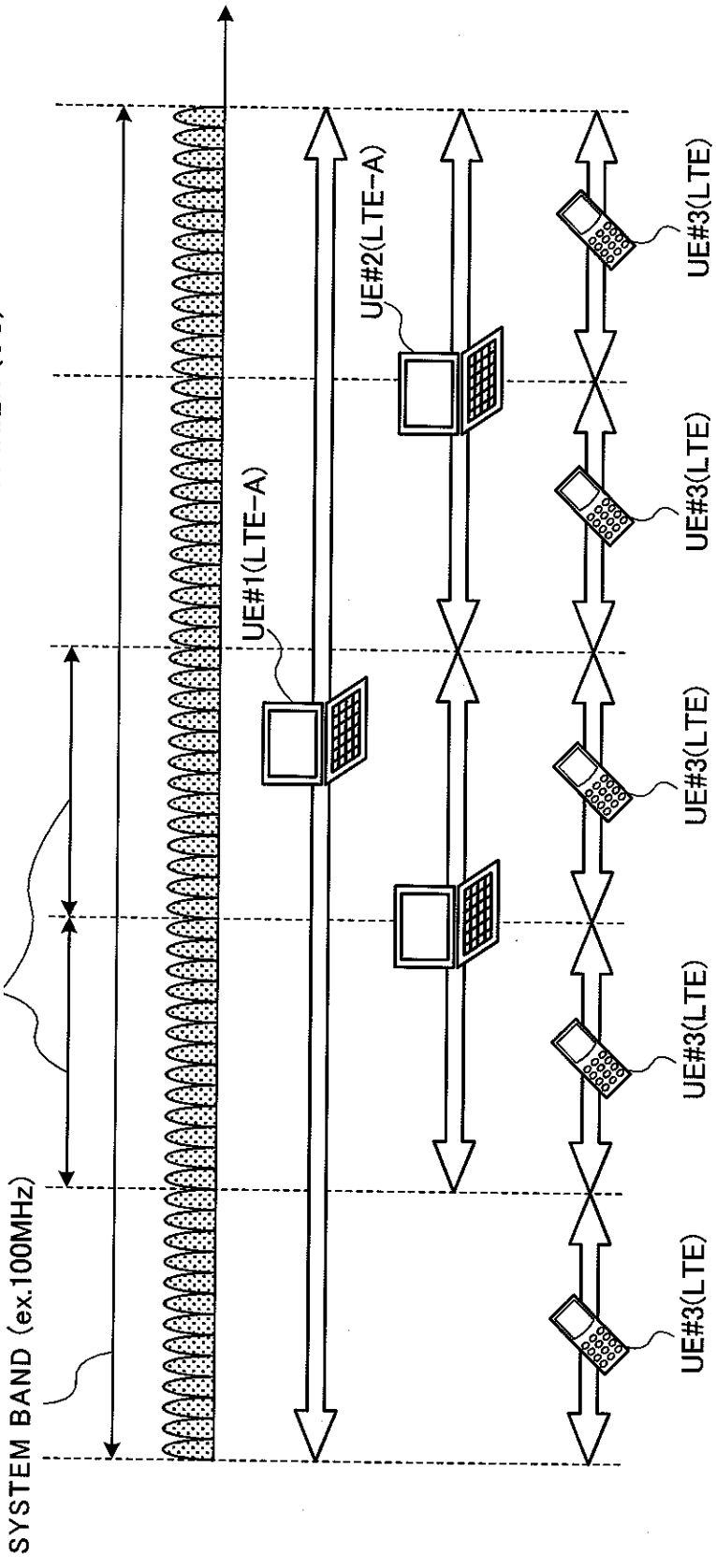

SYSTEM BAND (ex.100MHz)
BASE BAND (ex.20MHz):COMPONENT CARRIER (CC)
UE#1(LTE-A)
UE#2(LTE-A)
UE#3(LTE)
UE#3(LTE)
UE#3(LTE)
UE#3(LTE)
UE#3(LTE)

FIG. 1

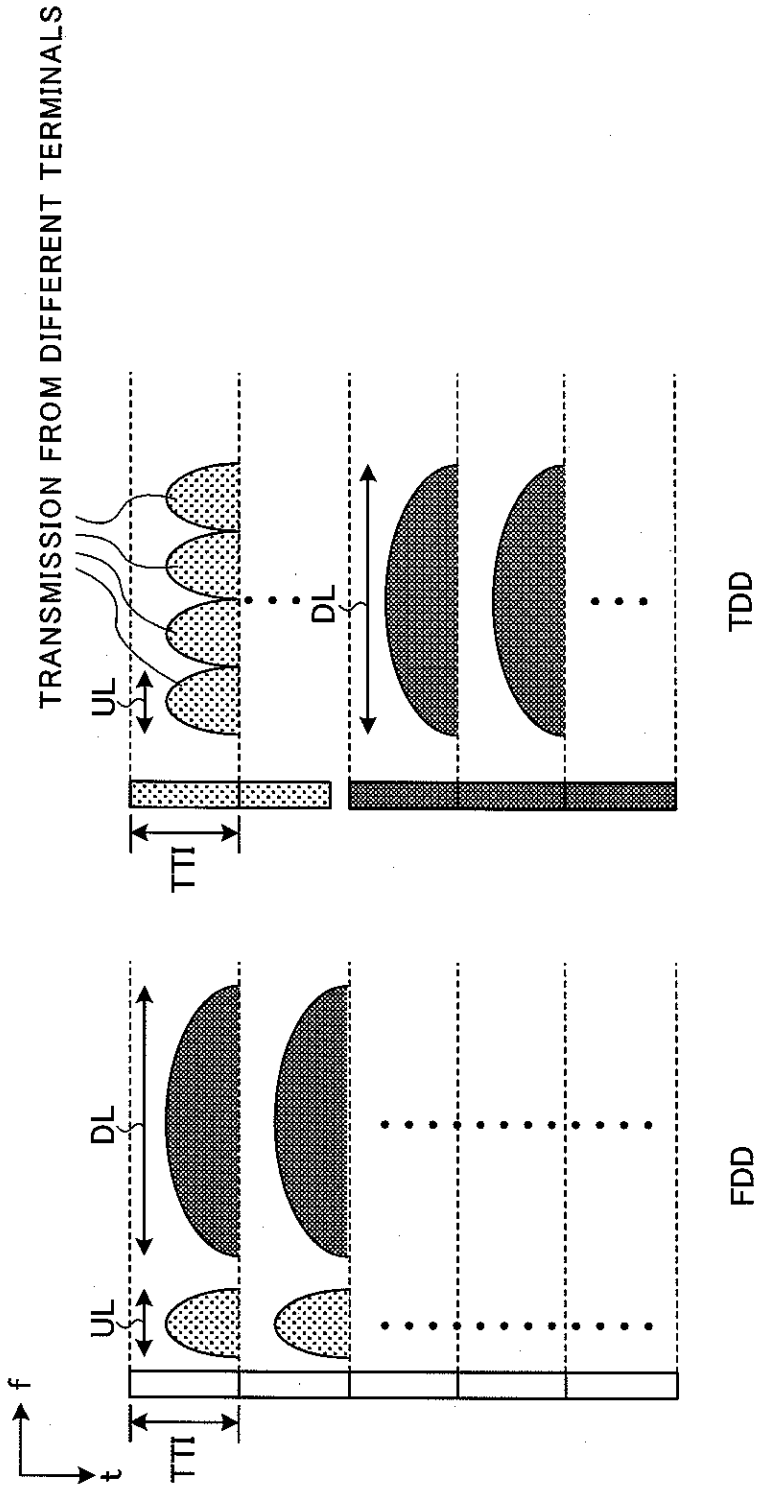

TRANSMISSION FROM DIFFERENT TERMINALS
UL
DL
TTI
TDD
DL
UL
TTI
FDD
f
t

FIG. 2

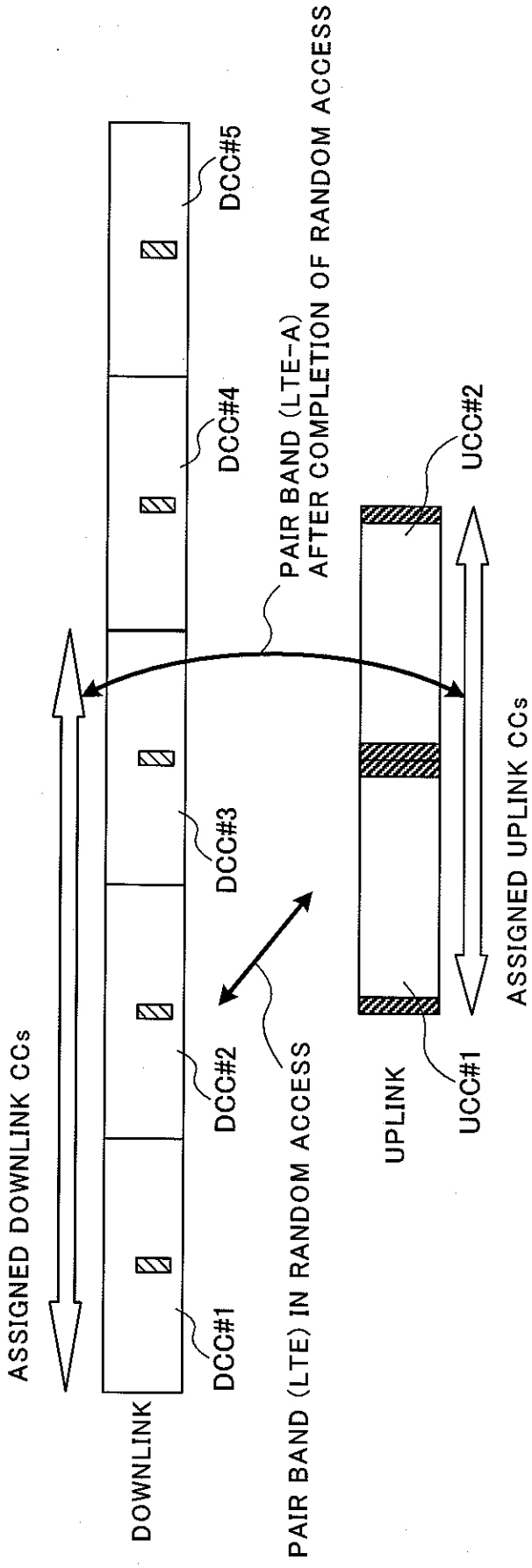

DCC#5
DCC#4
DCC#3
DCC#2
DCC#1
DOWNLINK
ASSIGNED DOWNLINK CCs
PAIR BAND (LTE) IN RANDOM ACCESS
PAIR BAND (LTE-A)
AFTER COMPLETION OF RANDOM ACCESS
UCC#2
UCC#1
UPLINK
ASSIGNED UPLINK CCs

FIG. 3

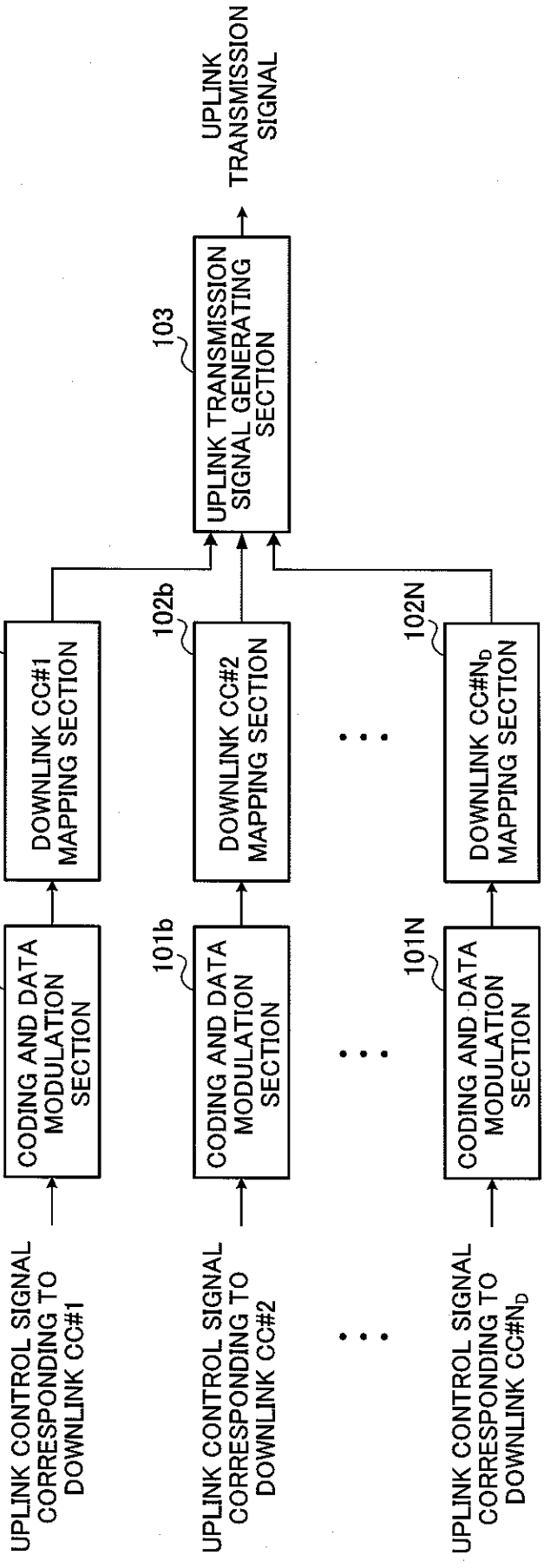

UPLINK CONTROL SIGNAL CORRESPONDING TO DOWNLINK CC#1
UPLINK CONTROL SIGNAL CORRESPONDING TO DOWNLINK CC#2
UPLINK CONTROL SIGNAL CORRESPONDING TO DOWNLINK CC#N_D
101a
CODING AND DATA MODULATION SECTION
101b
CODING AND DATA MODULATION SECTION
101N
CODING AND DATA MODULATION SECTION
102a
DOWNLINK CC#1 MAPPING SECTION
102b
DOWNLINK CC#2 MAPPING SECTION
102N
DOWNLINK CC#N_D MAPPING SECTION
103
UPLINK TRANSMISSION SIGNAL GENERATING SECTION
UPLINK TRANSMISSION SIGNAL

FIG. 4

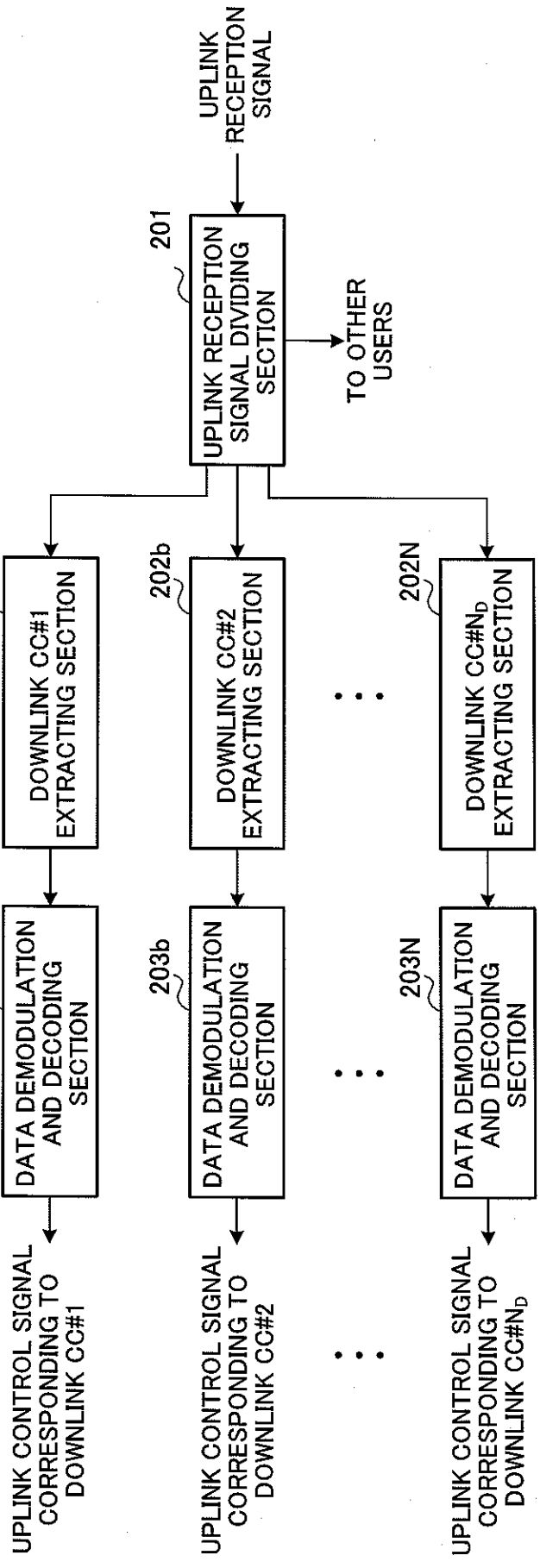

UPLINK RECEPTION SIGNAL
201
UPLINK RECEPTION SIGNAL DIVIDING SECTION
TO OTHER USERS
202a
DOWNLINK CC#1 EXTRACTING SECTION
202b
DOWNLINK CC#2 EXTRACTING SECTION
202N
DOWNLINK CC#N_D EXTRACTING SECTION
203a
DATA DEMODULATION AND DECODING SECTION
203b
DATA DEMODULATION AND DECODING SECTION
203N
DATA DEMODULATION AND DECODING SECTION
UPLINK CONTROL SIGNAL CORRESPONDING TO DOWNLINK CC#1
UPLINK CONTROL SIGNAL CORRESPONDING TO DOWNLINK CC#2
UPLINK CONTROL SIGNAL CORRESPONDING TO DOWNLINK CC#N_D

FIG. 5

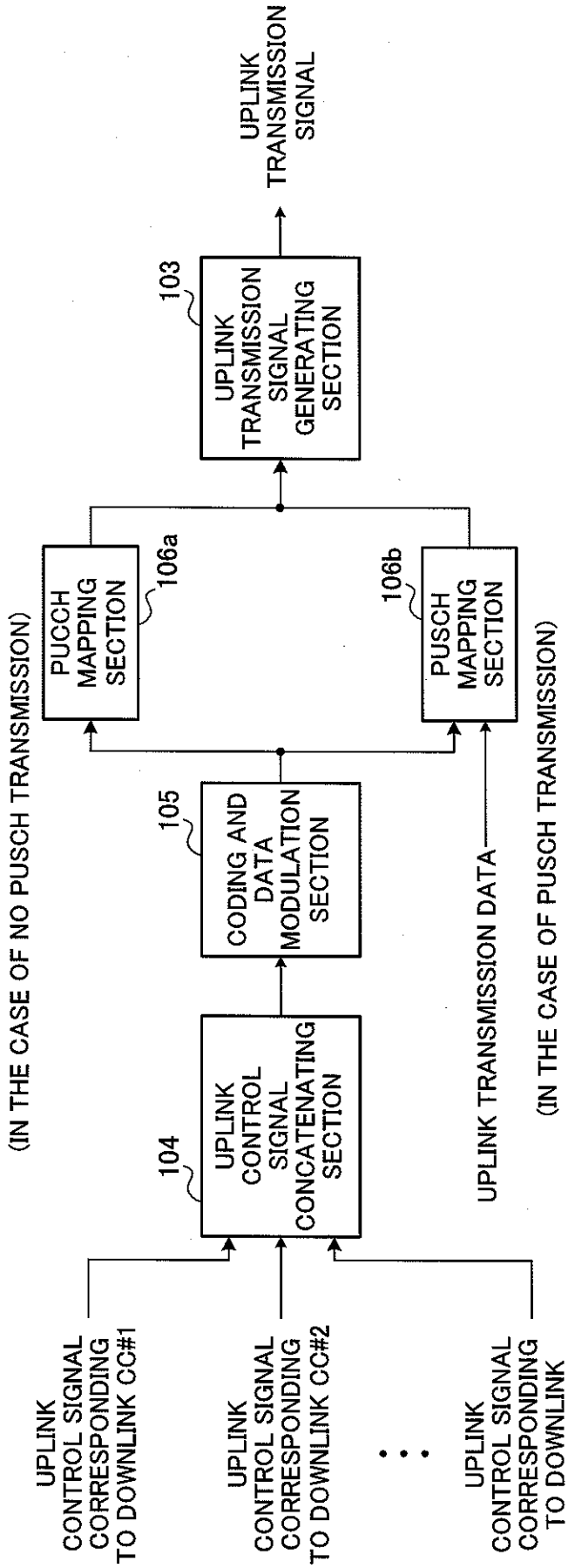

UPLINK CONTROL SIGNAL CORRESPONDING TO DOWNLINK CC#1
UPLINK CONTROL SIGNAL CORRESPONDING TO DOWNLINK CC#2
UPLINK CONTROL SIGNAL CORRESPONDING TO DOWNLINK CC#N_D
104
UPLINK CONTROL SIGNAL CONCATENATING SECTION
105
CODING AND DATA MODULATION SECTION
(IN THE CASE OF NO PUSCH TRANSMISSION)
106a
PUCCH MAPPING SECTION
UPLINK TRANSMISSION DATA
(IN THE CASE OF PUSCH TRANSMISSION)
106b
PUSCH MAPPING SECTION
103
UPLINK TRANSMISSION SIGNAL GENERATING SECTION
UPLINK TRANSMISSION SIGNAL

FIG. 6

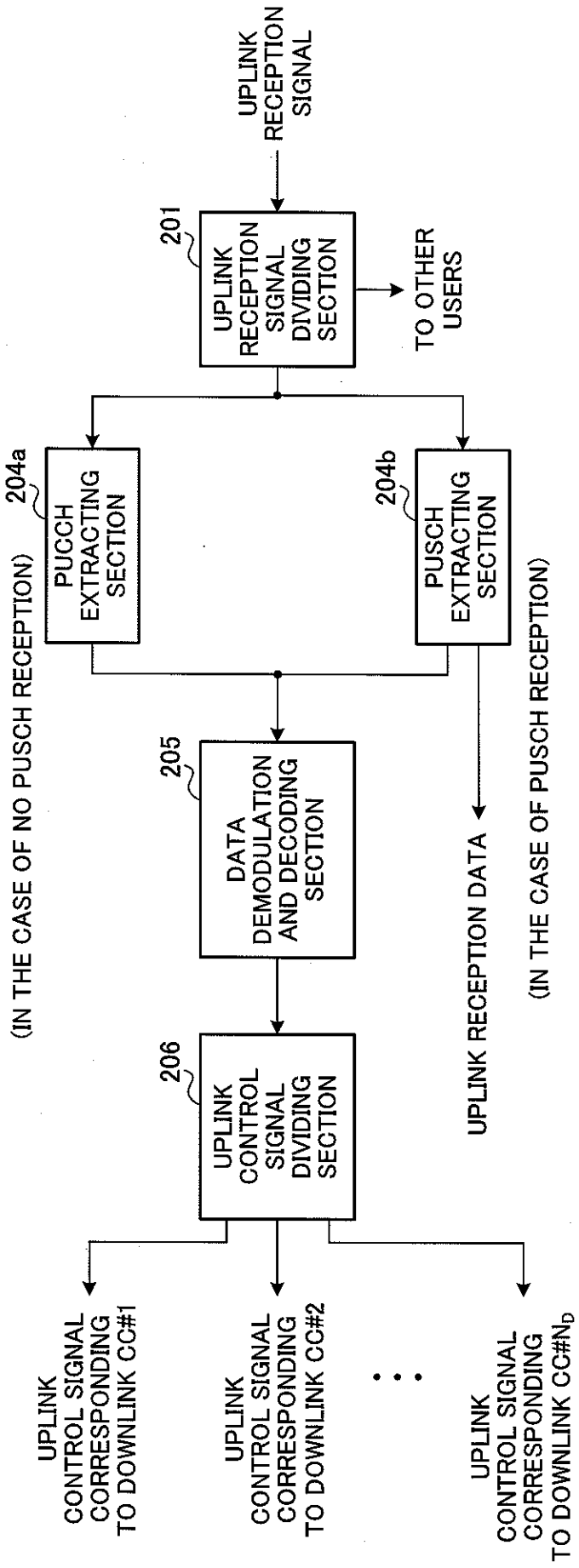

UPLINK RECEPTION SIGNAL
201
UPLINK RECEPTION SIGNAL DIVIDING SECTION
TO OTHER USERS
204a
PUCCH EXTRACTING SECTION
(IN THE CASE OF NO PUSCH RECEPTION)
204b
PUSCH EXTRACTING SECTION
(IN THE CASE OF PUSCH RECEPTION)
205
DATA DEMODULATION AND DECODING SECTION
UPLINK RECEPTION DATA
206
UPLINK CONTROL SIGNAL DIVIDING SECTION
UPLINK CONTROL SIGNAL CORRESPONDING TO DOWNLINK CC#1
UPLINK CONTROL SIGNAL CORRESPONDING TO DOWNLINK CC#2
UPLINK CONTROL SIGNAL CORRESPONDING TO DOWNLINK CC#N_D

FIG. 7

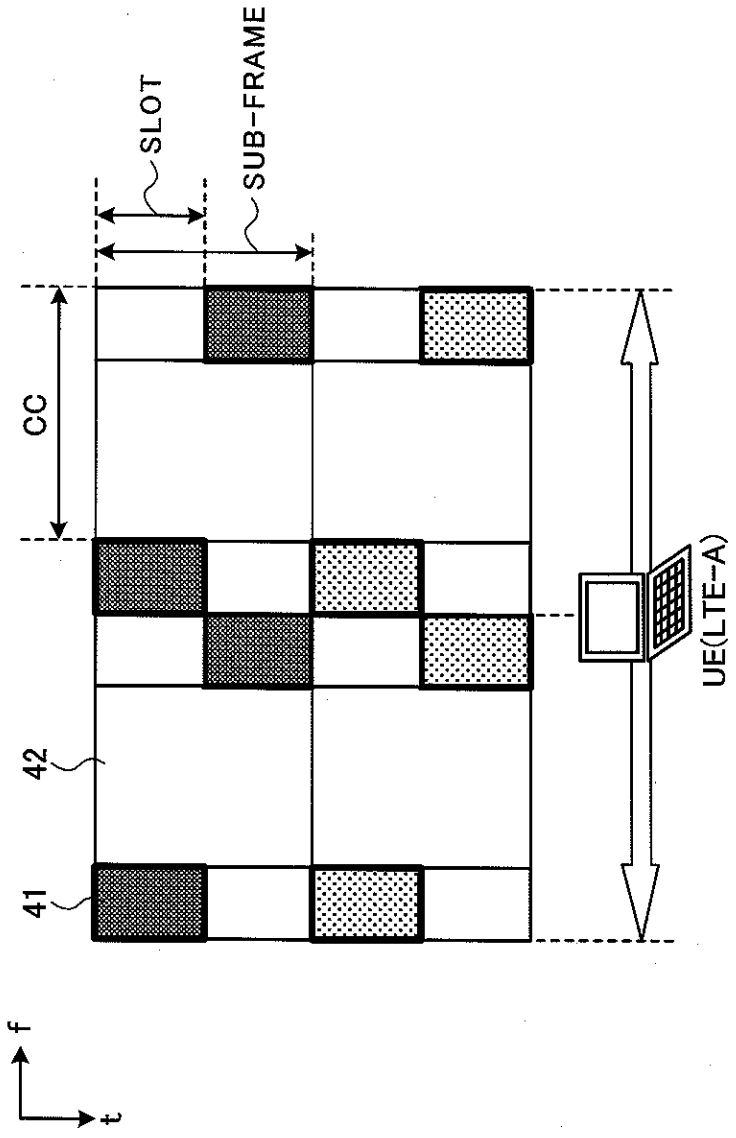


FIG. 8