

FIG. 1

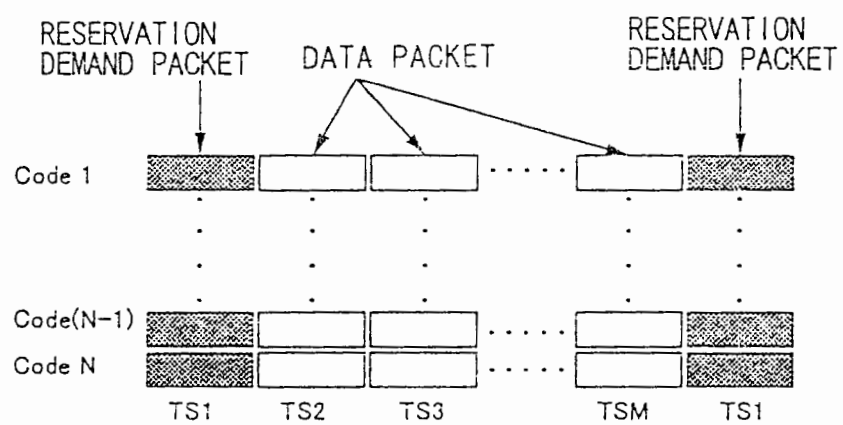


FIG. 2

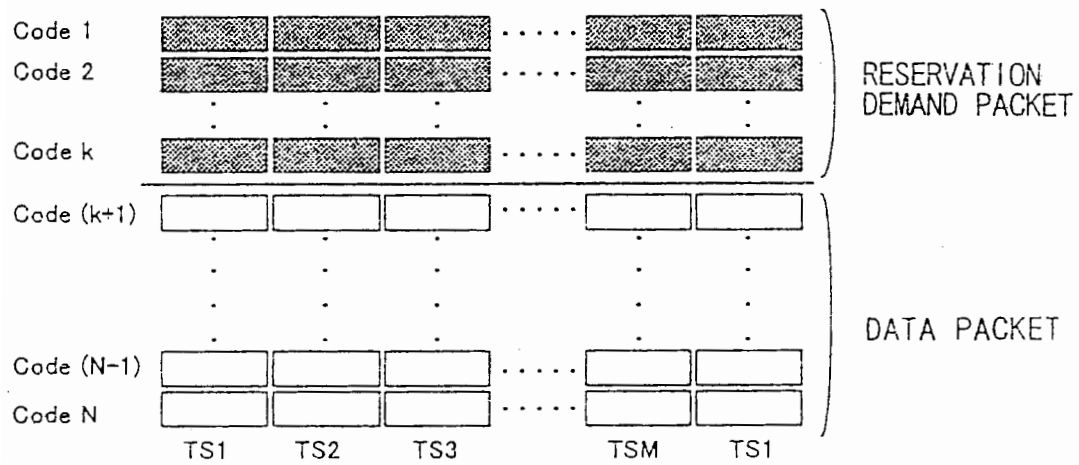


FIG. 3

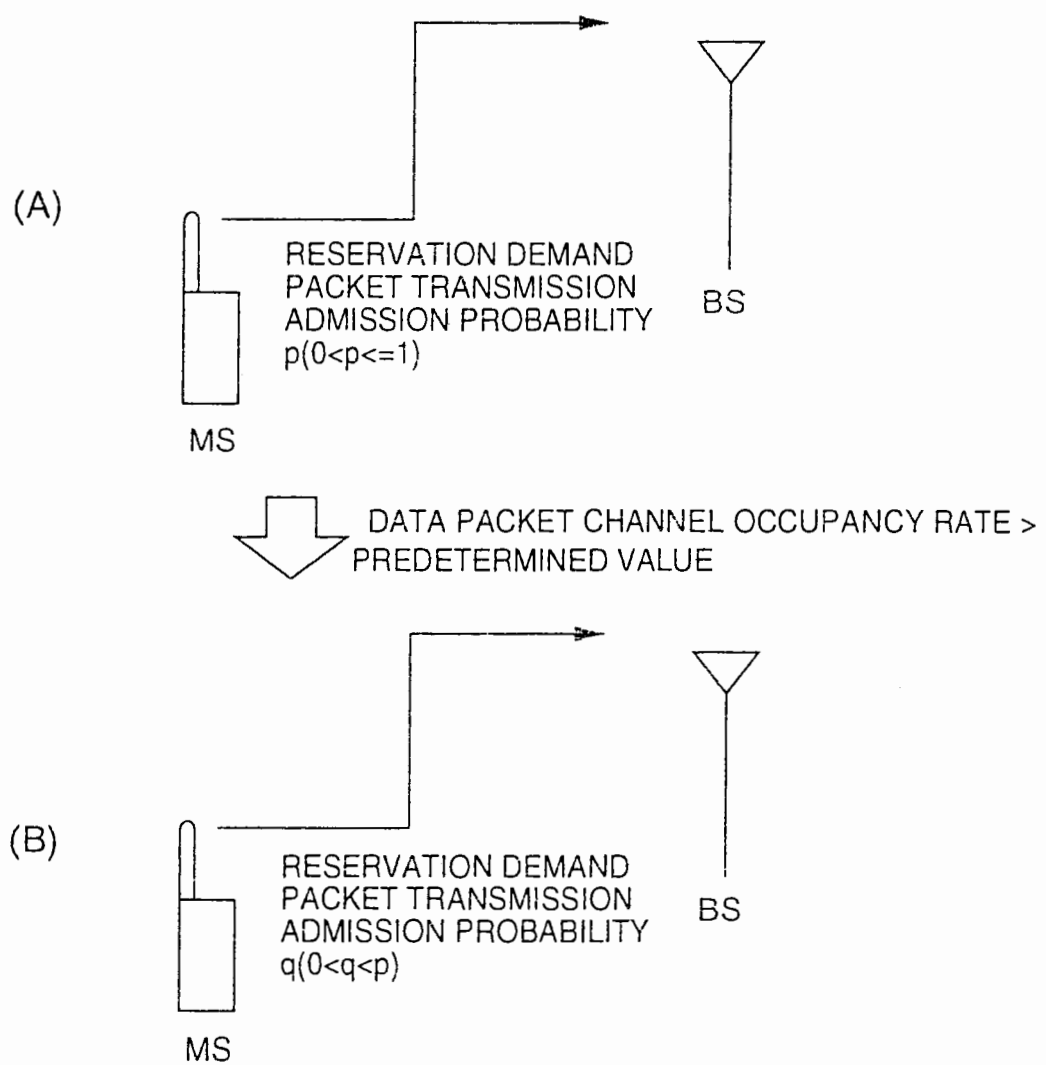
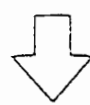
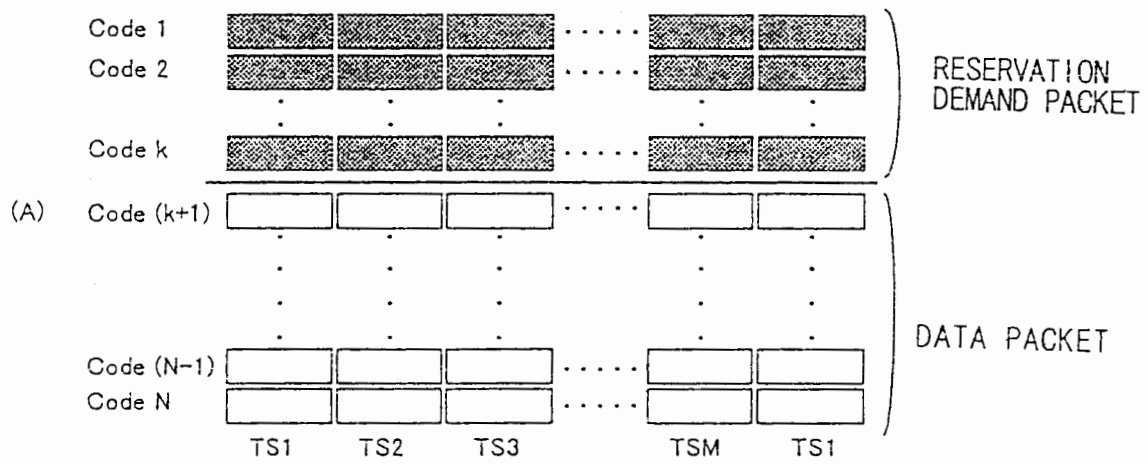


FIG. 4



DATA PACKET CHANNEL OCCUPANCY
RATE > PREDETERMINED VALUE

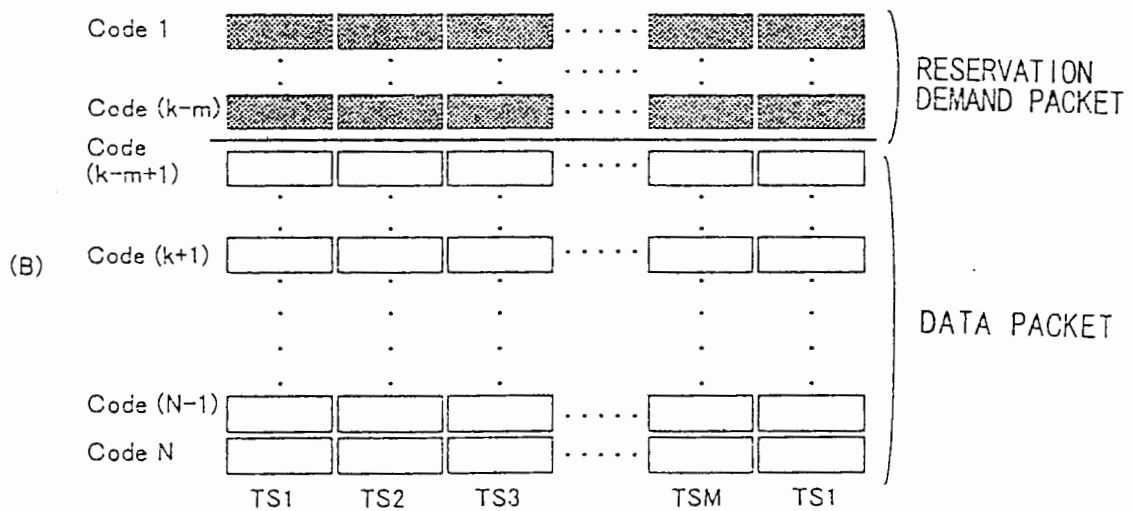


FIG. 5

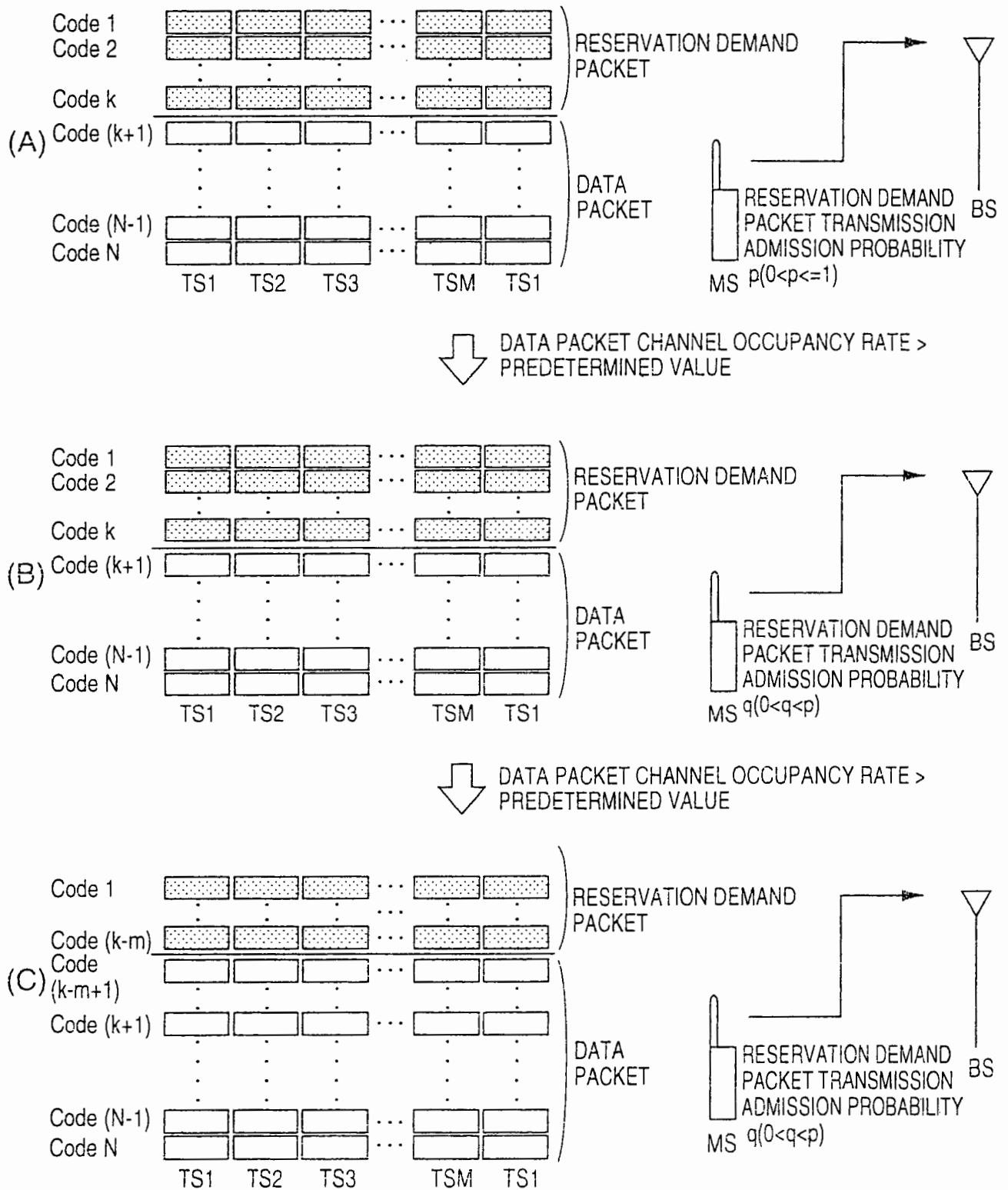


FIG. 6

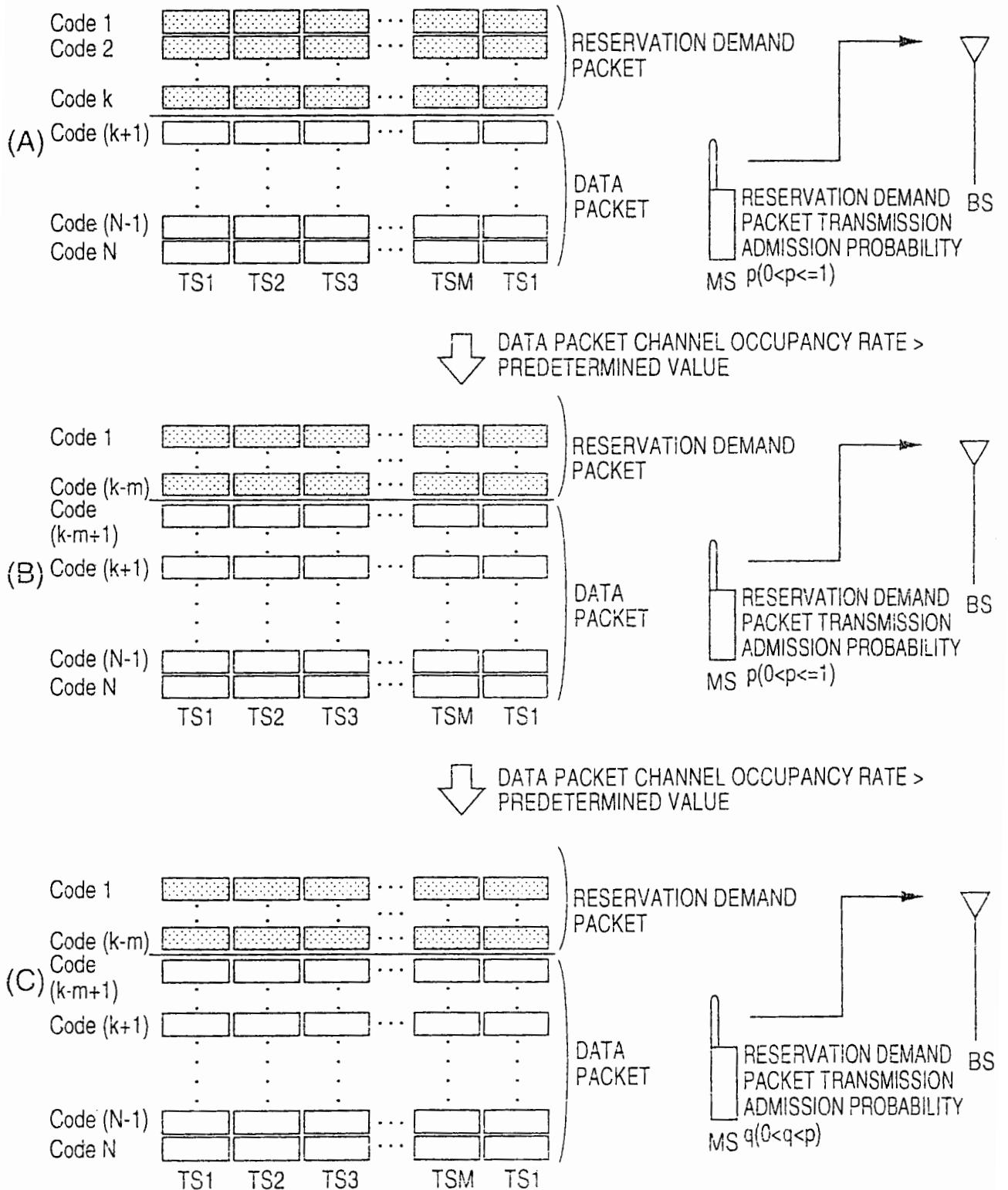


FIG. 7

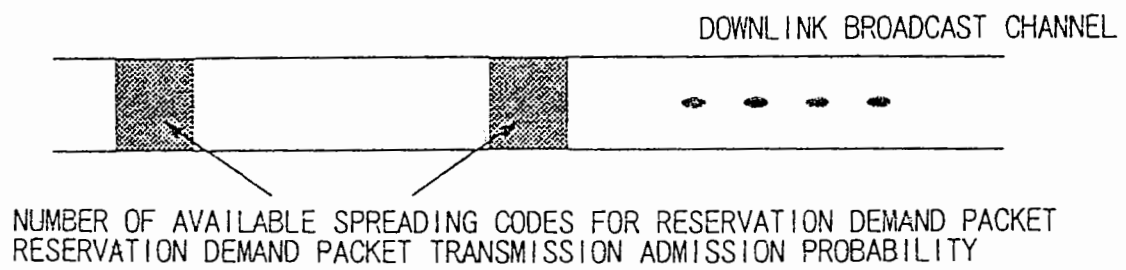


FIG. 8

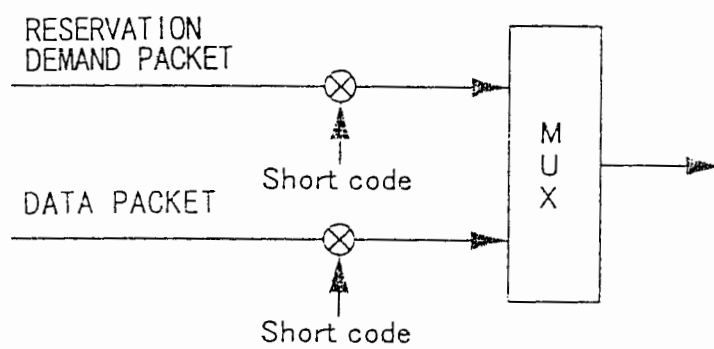


FIG. 9

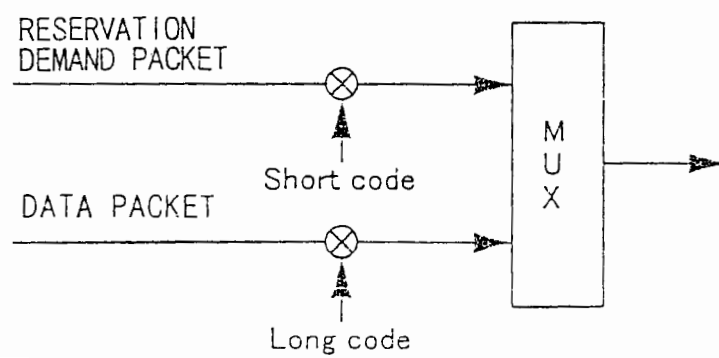


FIG. 10

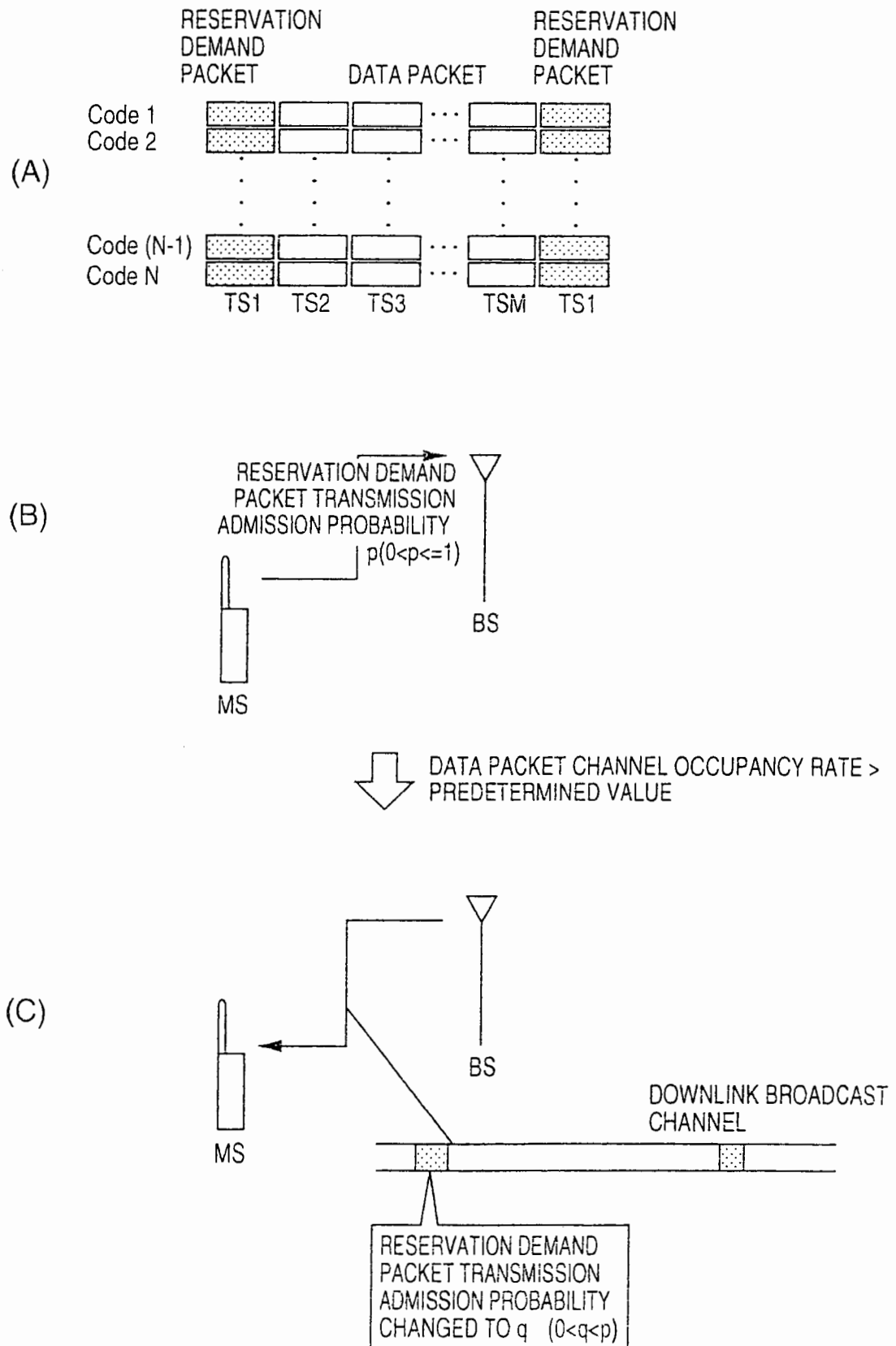


FIG. 11

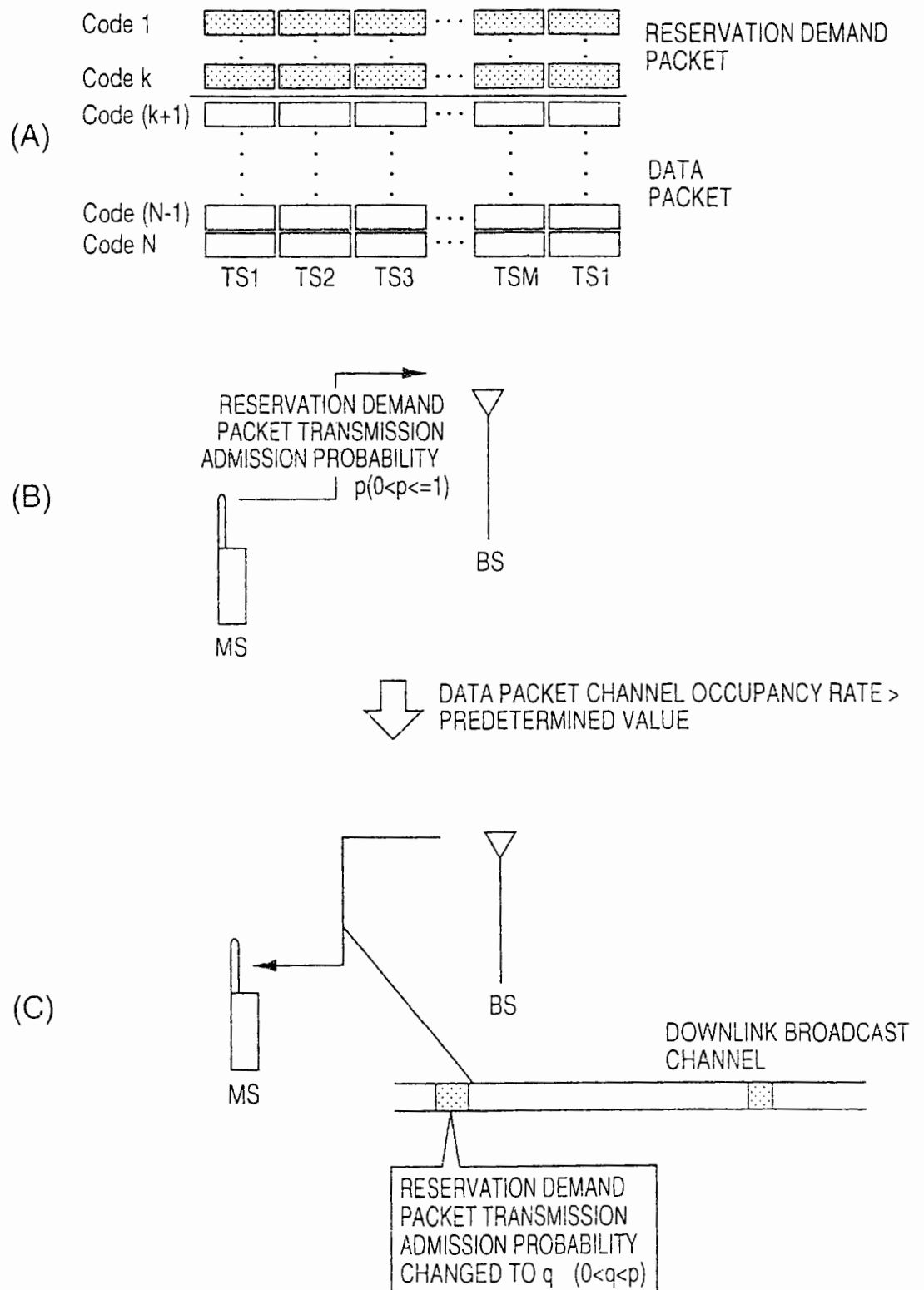


FIG. 12

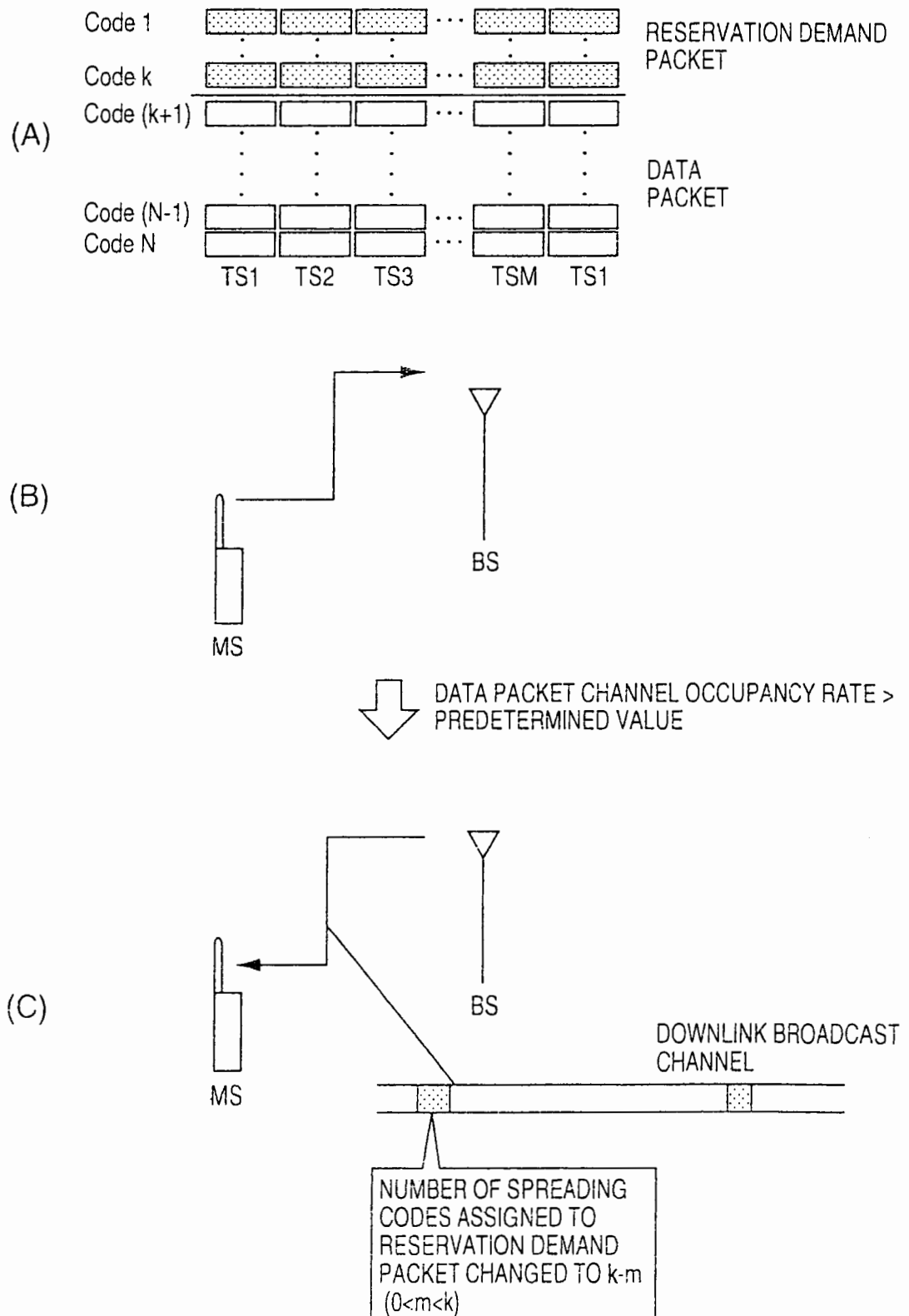


FIG. 13

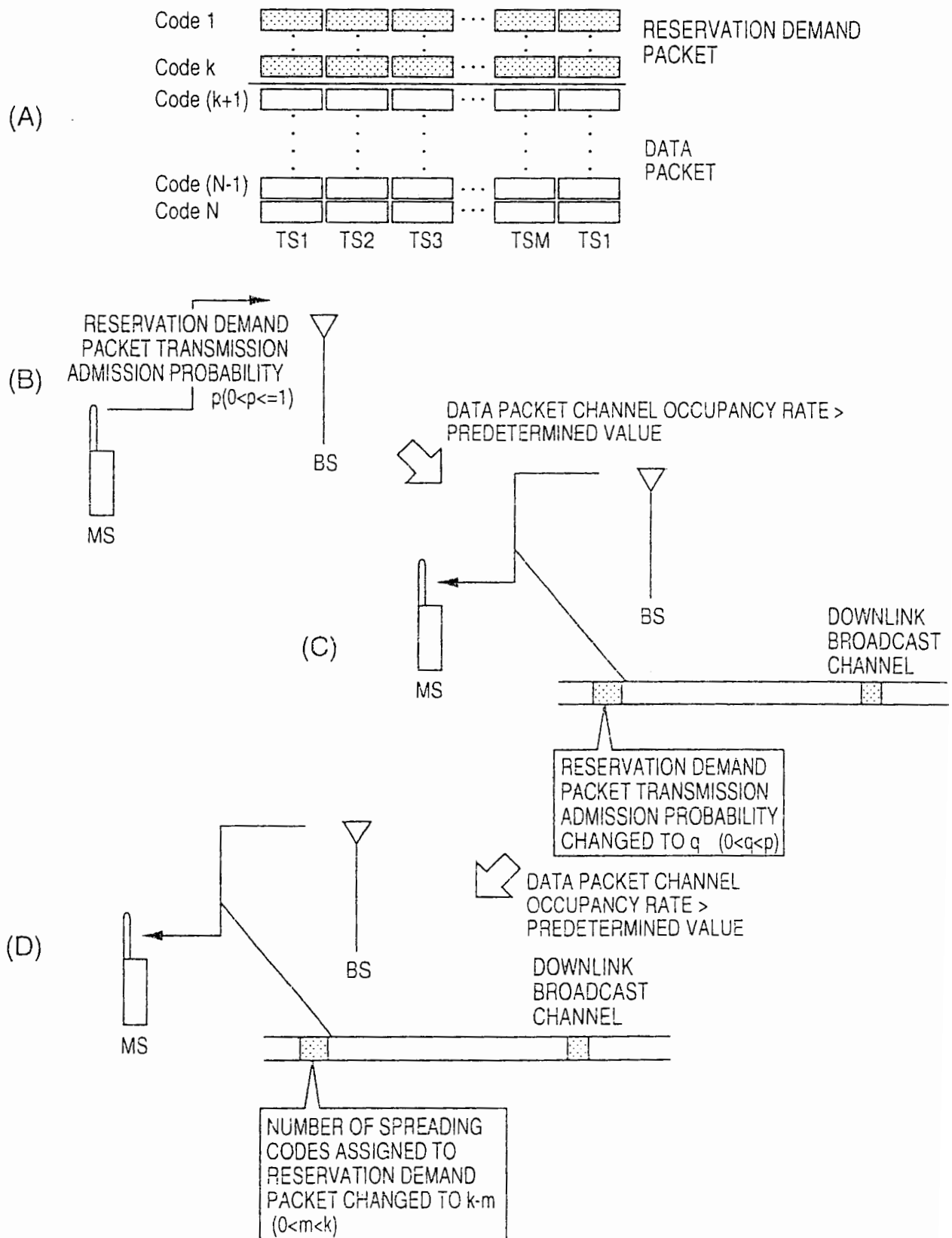


FIG. 14

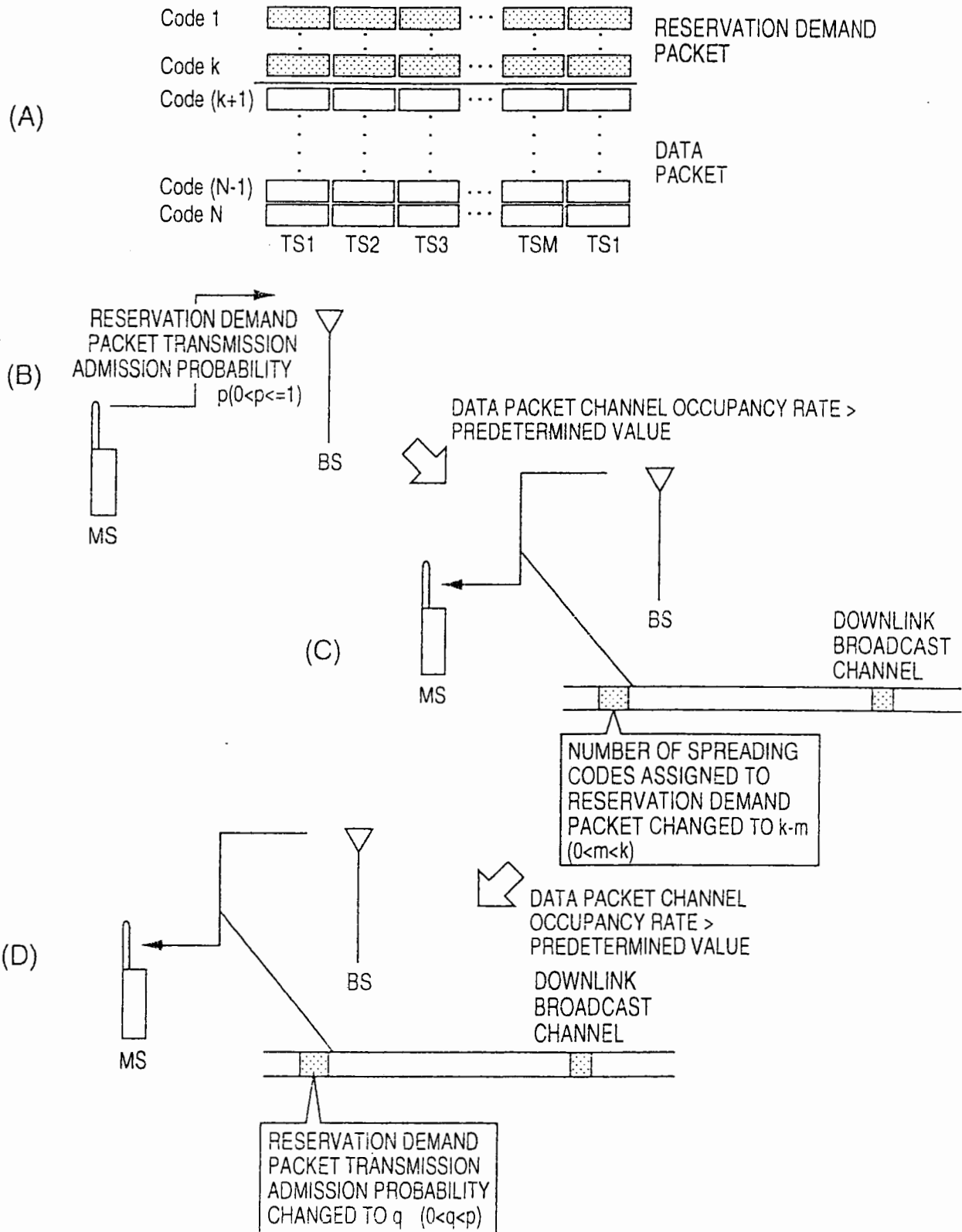


FIG. 15

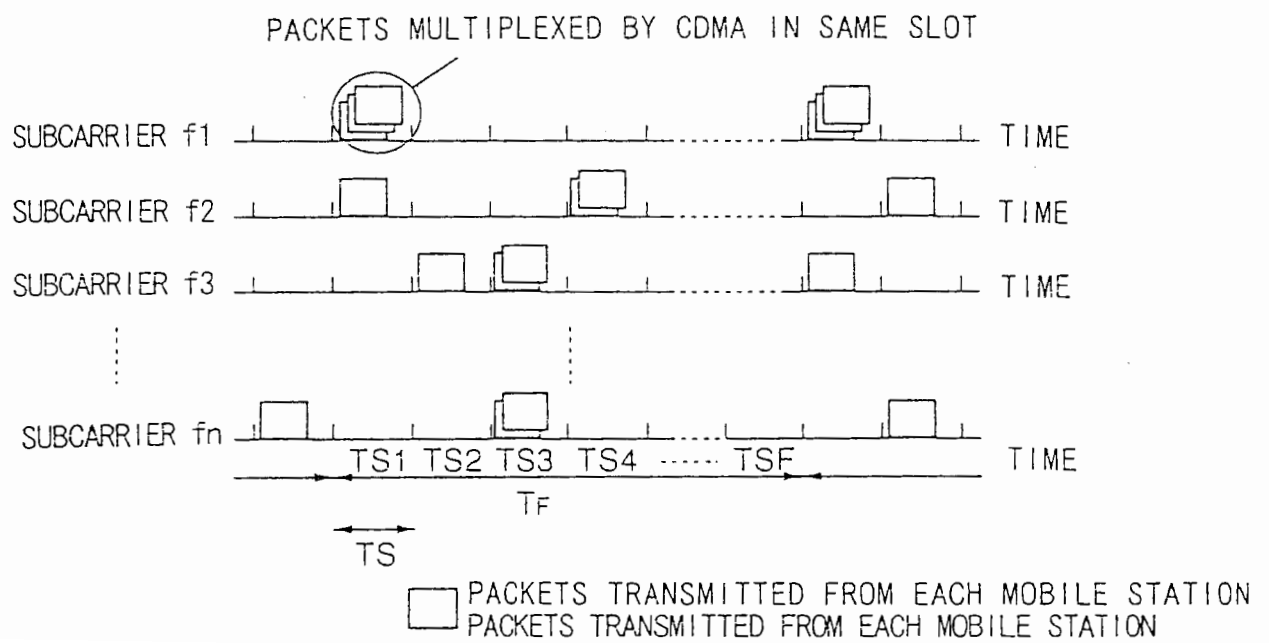


FIG. 16

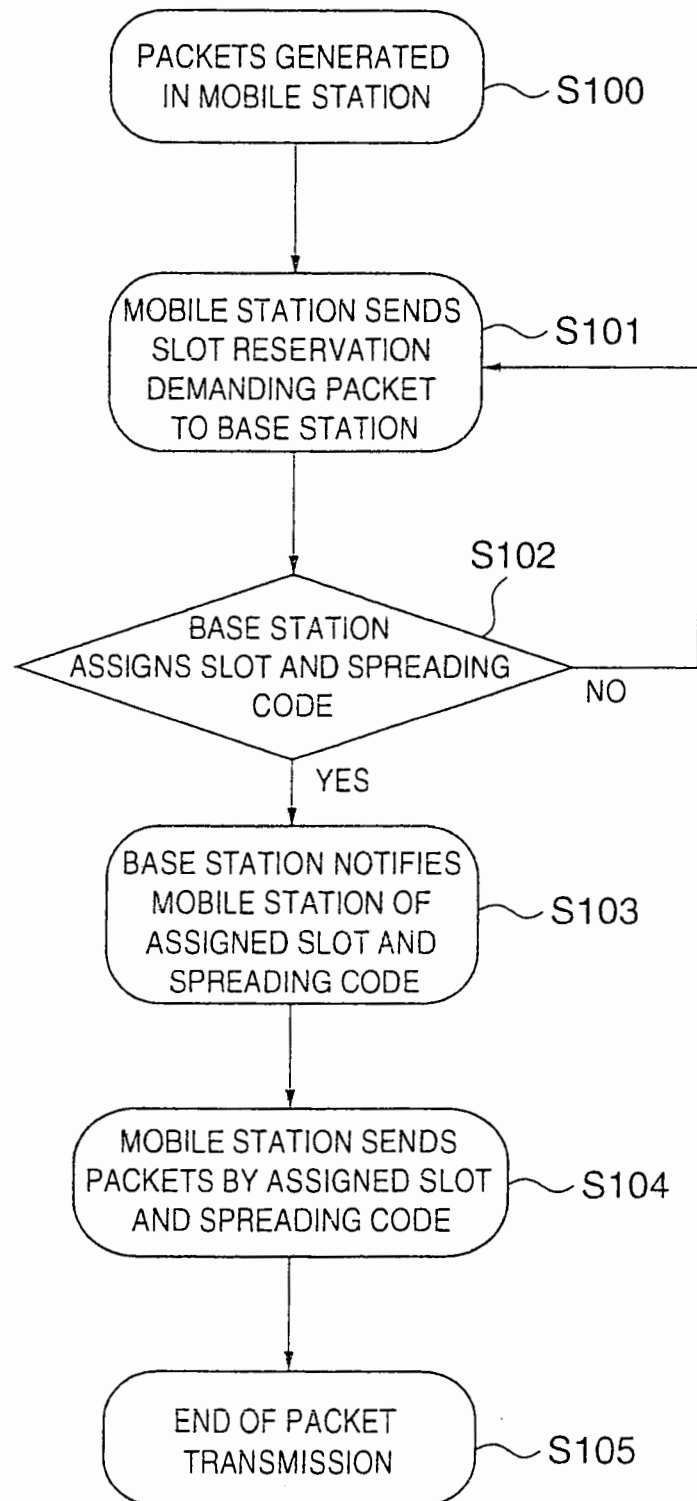


FIG. 17

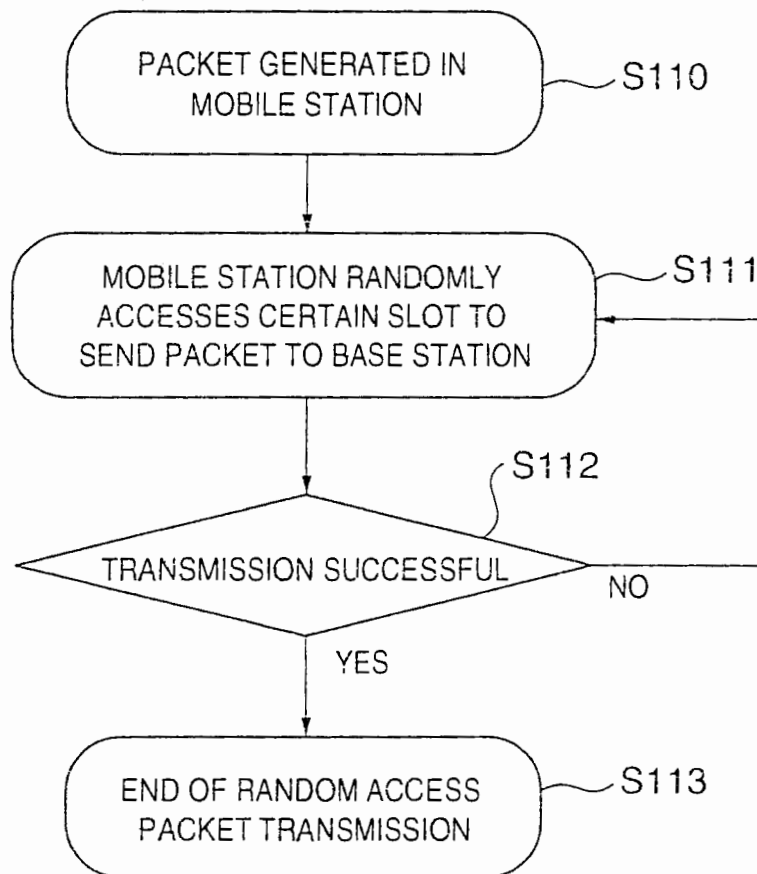


FIG. 18

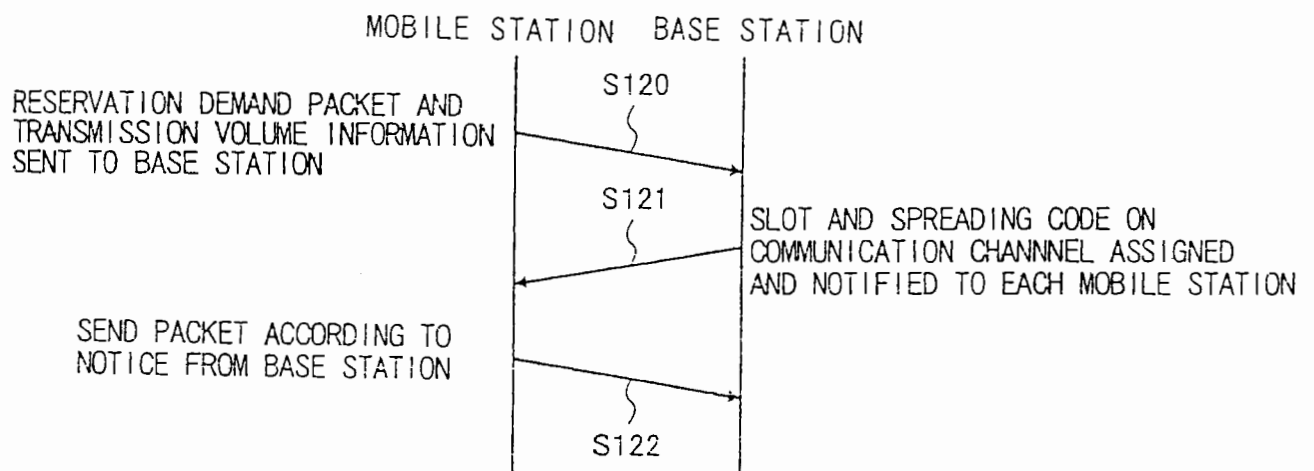
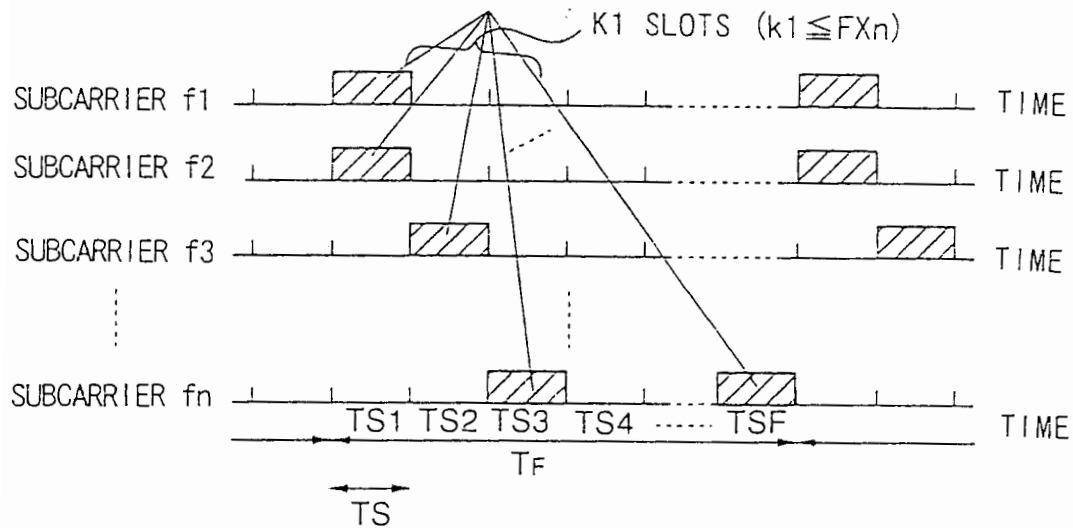


FIG. 19

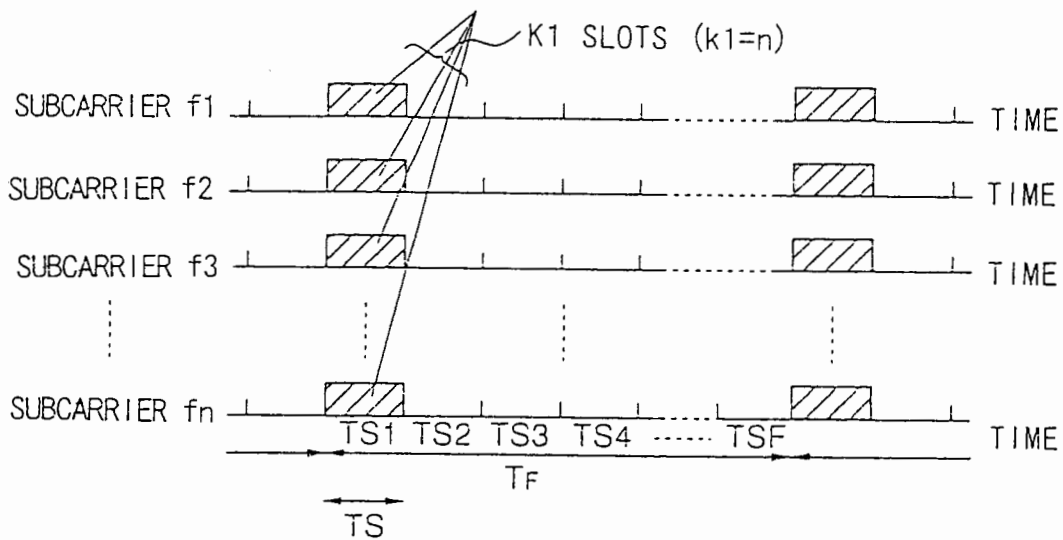
BASE STATION SELECTS k_1 ($k_1 < F_{xn}$) SLOTS OUT OF F_{xn} SLOTS OF EACH FRAME AS RESERVATION DEMAND PACKET TRANSMISSION SLOTS



 RESERVATION DEMAND PACKET TRANSMISSION SLOTS
(CAPABLE OF SIMULTANEOUS TRANSMISSION OF m_1 RESERVATION DEMAND PACKETS BY m_1 SPREADING CODES WITHIN SLOT)

FIG. 20

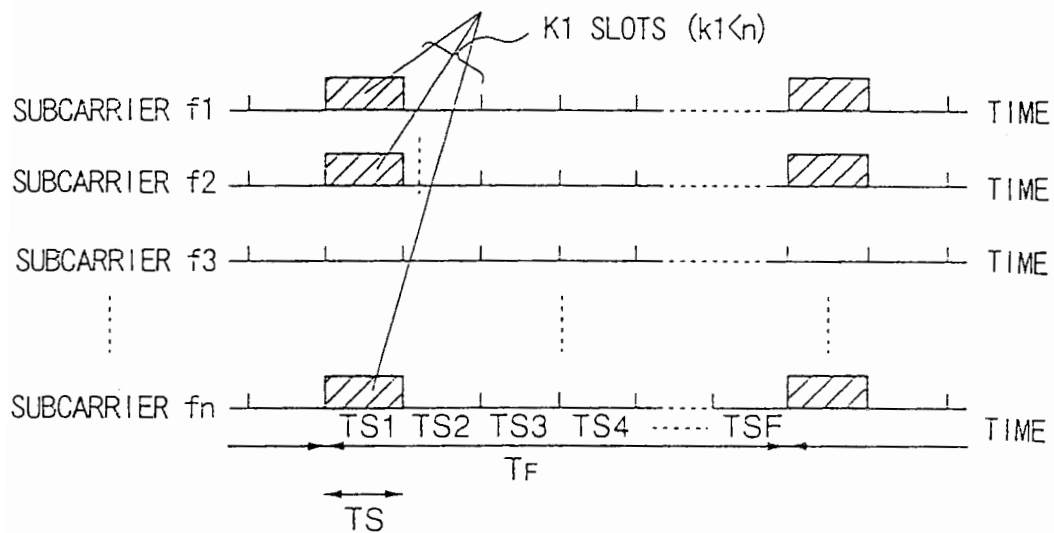
BASE STATION SELECTS ALL n SLOTS HAVING SAME TIMING IN EACH FRAME AS RESERVATION DEMAND PACKET TRANSMISSION SLOTS



 RESERVATION DEMAND PACKET TRANSMISSION SLOTS
(CAPABLE OF SIMULTANEOUS TRANSMISSION OF m_1 RESERVATION DEMAND PACKETS BY m_1 SPREADING CODES WITHIN SLOT)

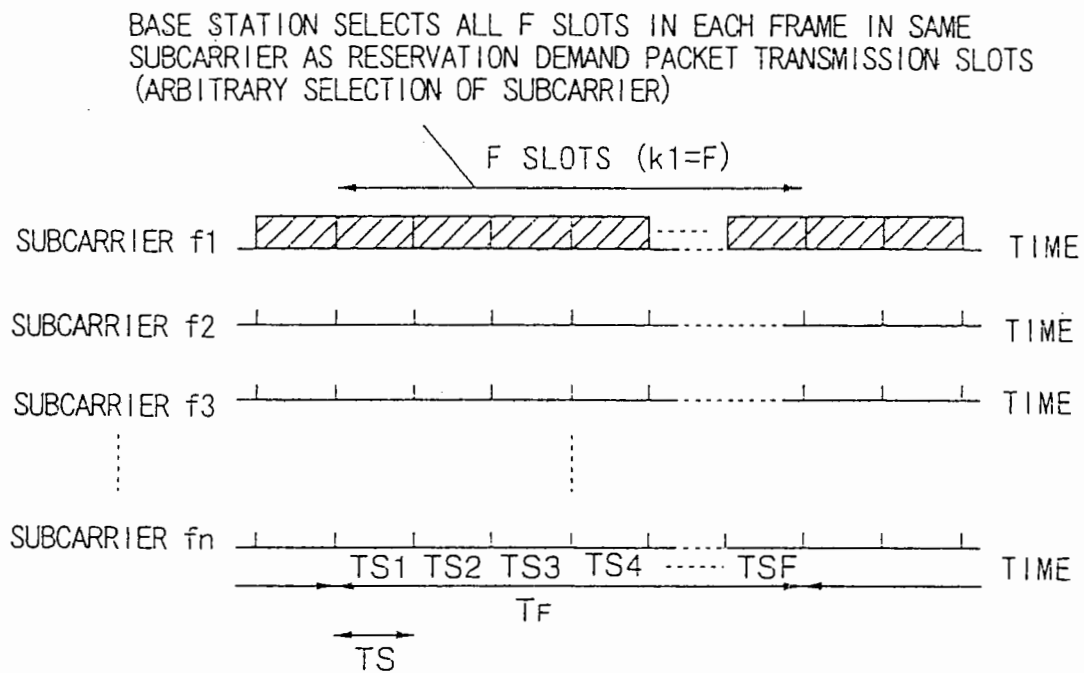
FIG. 21

BASE STATION SELECTS ALL k_1 ($k_1 < n$) SLOTS OUT OF n SLOTS HAVING SAME TIMING IN EACH FRAME AS RESERVATION DEMAND PACKET TRANSMISSION SLOTS (ARBITRARY SELECTION FROM n SLOTS)



 RESERVATION DEMAND PACKET TRANSMISSION SLOTS
(CAPABLE OF SIMULTANEOUS TRANSMISSION OF m_1 RESERVATION
DEMAND PACKETS BY m_1 SPREADING CODES WITHIN SLOT)

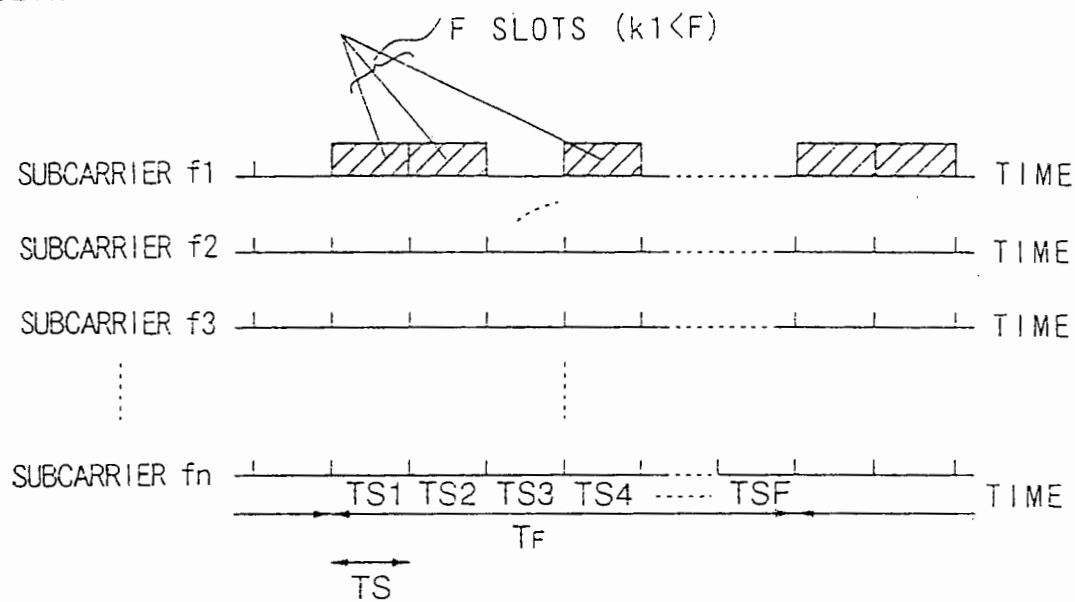
FIG. 22



RESERVATION DEMAND PACKET TRANSMISSION SLOTS
(CAPABLE OF SIMULTANEOUS TRANSMISSION OF m_1 RESERVATION
DEMAND PACKETS BY m_1 SPREADING CODES WITHIN SLOT)

FIG. 23

BASE STATION SELECTS k_1 SLOTS OUT OF F SLOTS IN EACH FRAME OF SAME SUBCARRIER AS RESERVATION DEMAND PACKET TRANSMISSION SLOTS (ARBITRARY SELECTION OF SUBCARRIERS AND n SLOTS)



RESERVATION DEMAND PACKET TRANSMISSION SLOTS
(CAPABLE OF SIMULTANEOUS TRANSMISSION OF m_1 RESERVATION
DEMAND PACKETS BY m_1 SPREADING CODES WITHIN SLOT)

FIG. 24

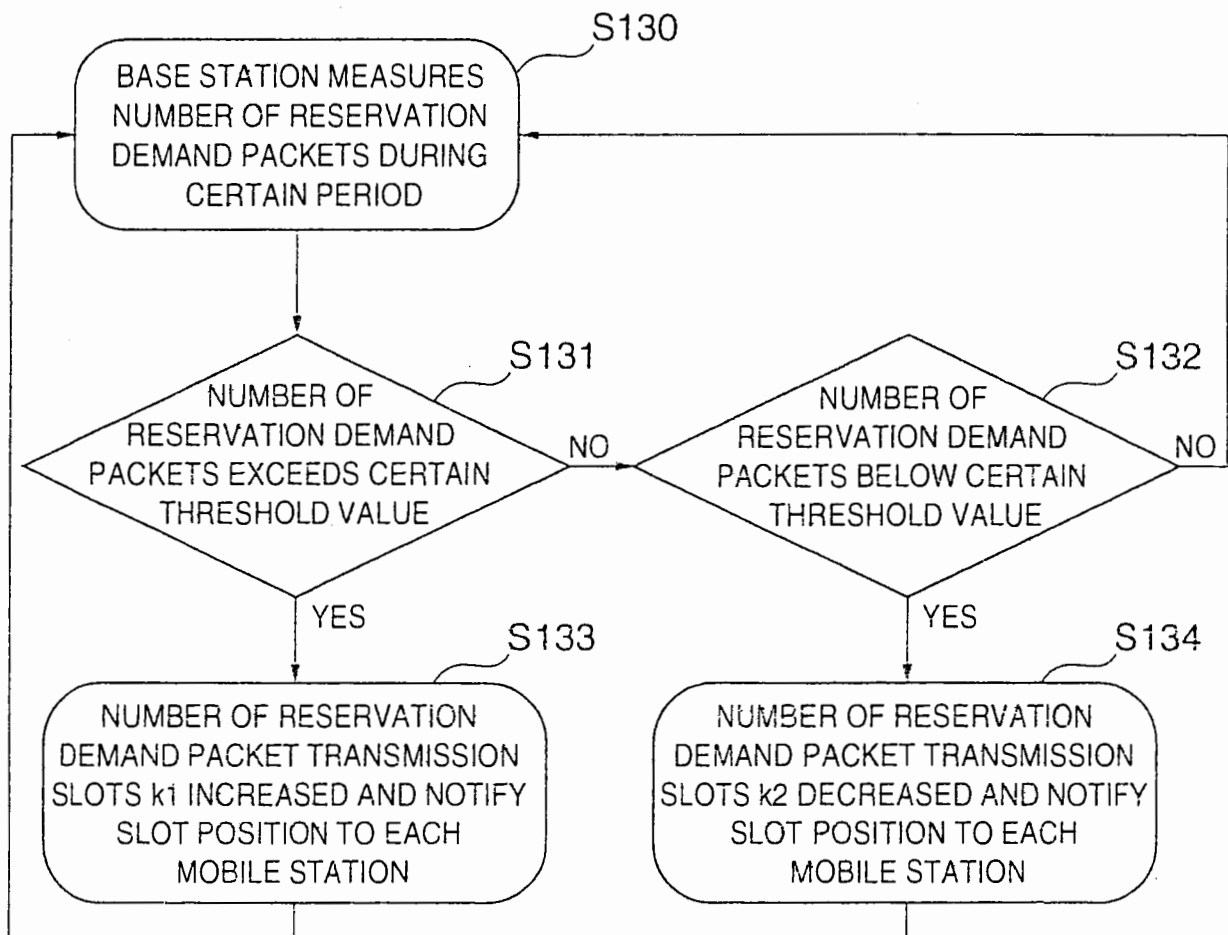


FIG. 25

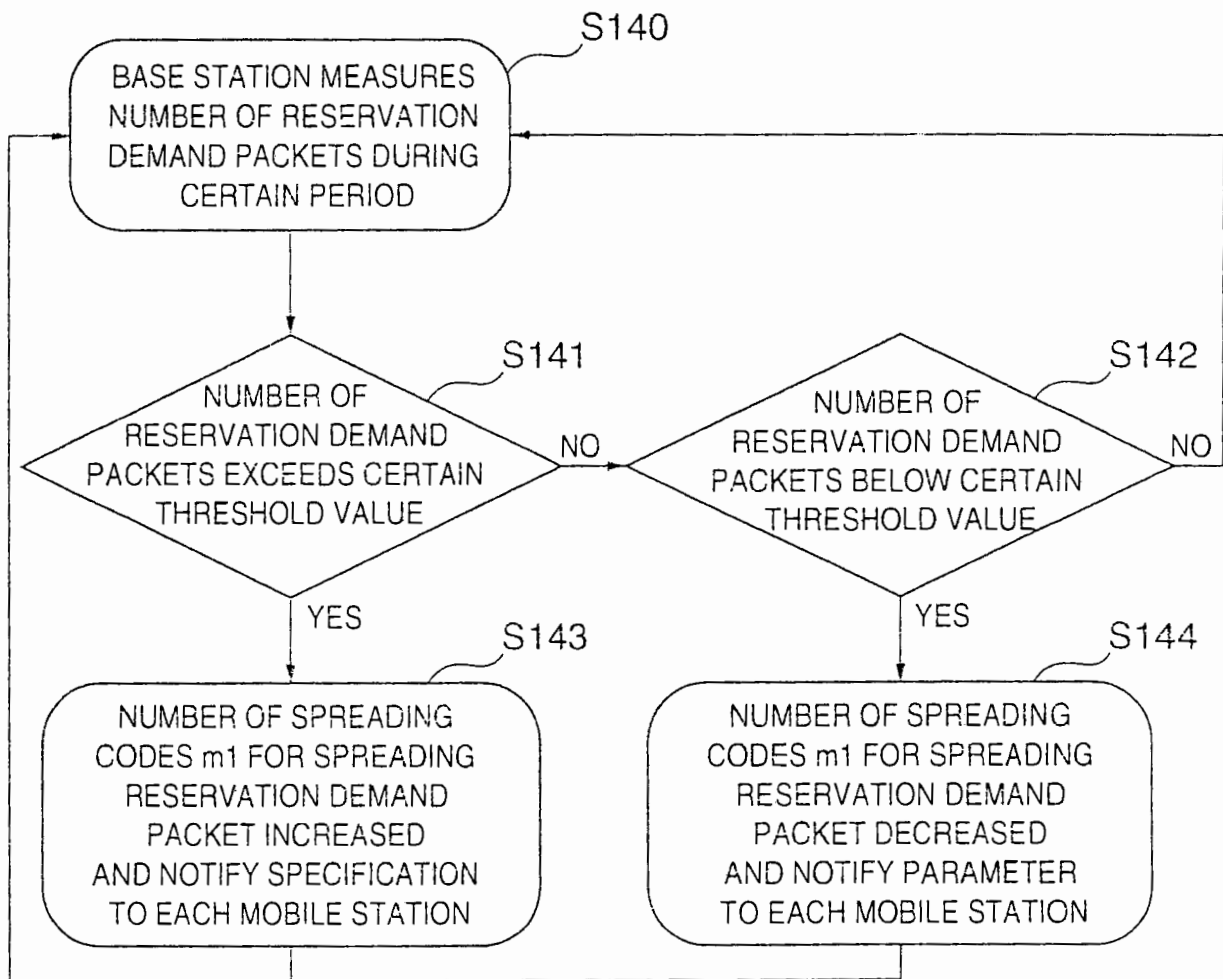


FIG. 26

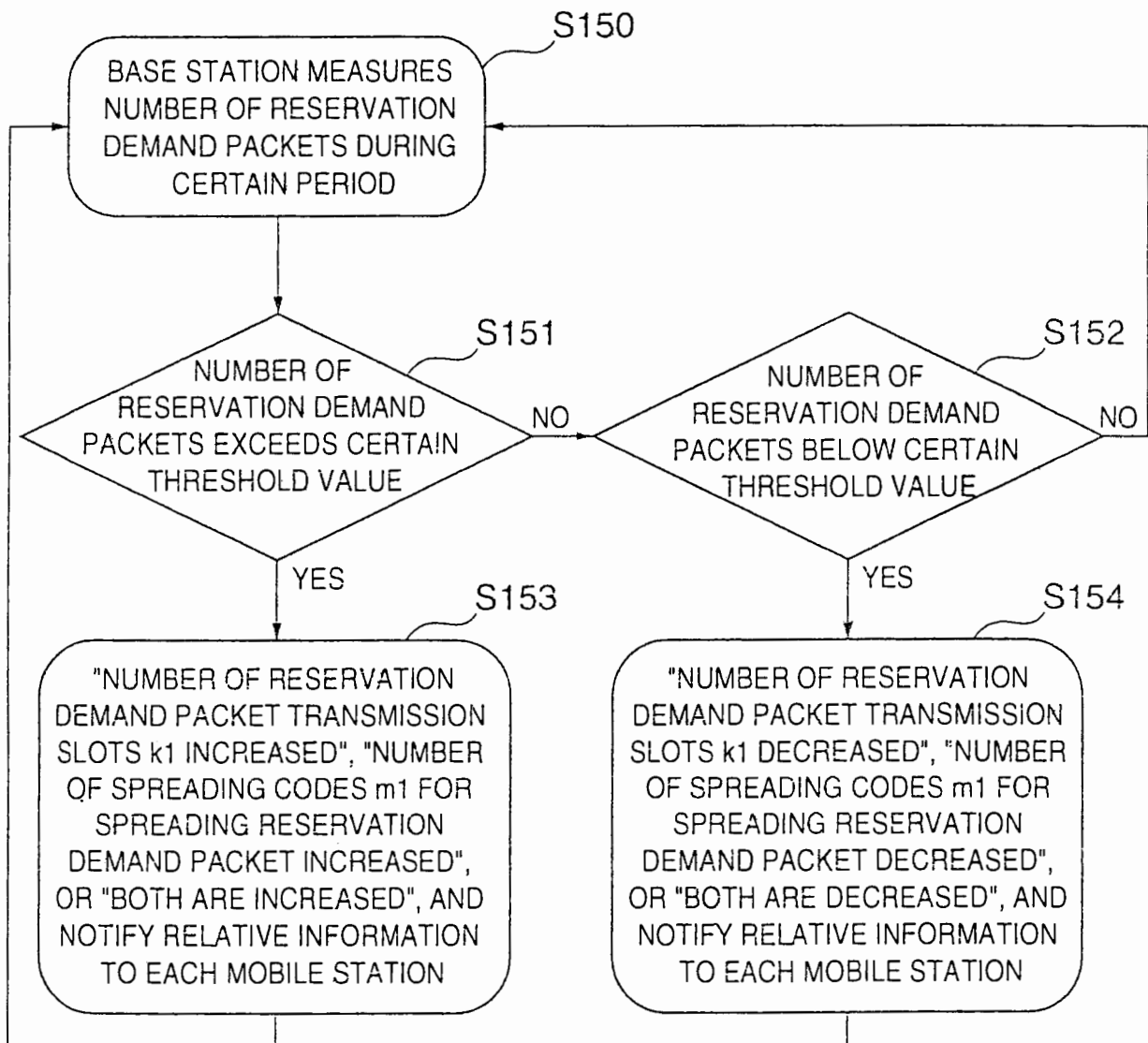


FIG. 27

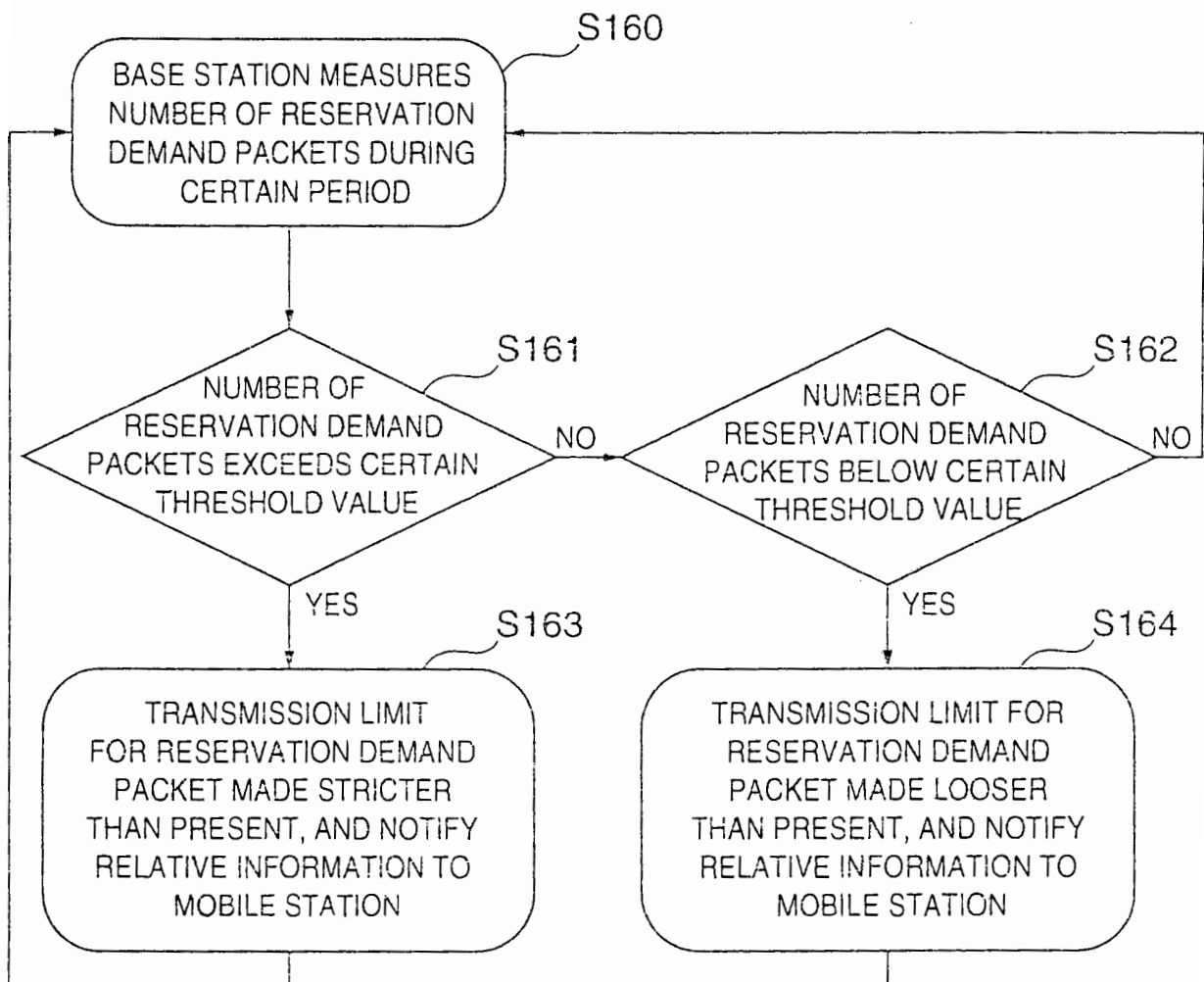
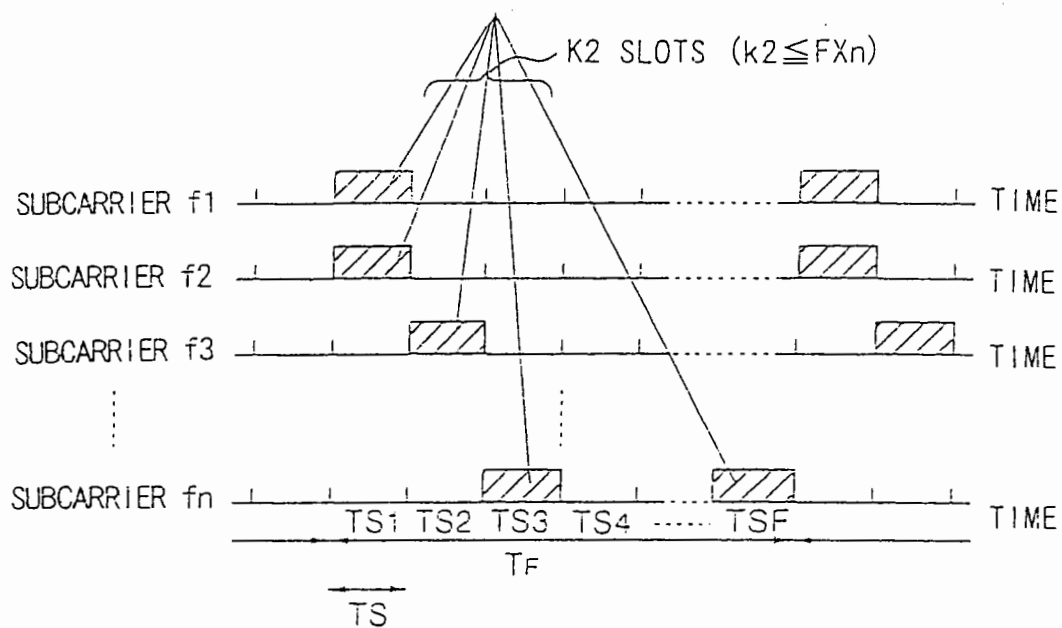


FIG. 28

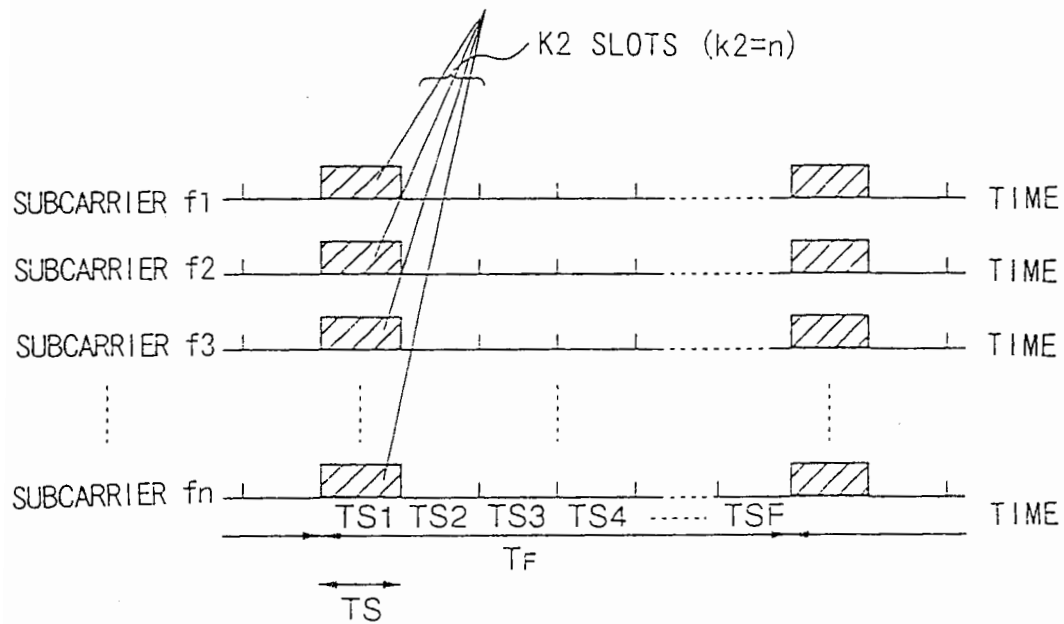
BASE STATION SELECTS k_2 ($k_2 \leq F \times n$) SLOTS OUT OF $F \times n$ SLOTS
IN EACH FRAME AS RANDOM ACCESS PACKET TRANSMISSION SLOTS



 RANDOM ACCESS PACKET TRANSMISSION SLOTS
(CAPABLE OF SIMULTANEOUS TRANSMISSION OF m_2 RANDOM
ACCESS PACKETS BY m_2 SPREADING CODES WITHIN SLOT)

FIG. 29

BASE STATION SELECTS ALL n SLOTS OF SAME TIMING IN EACH FRAME AS RANDOM ACCESS PACKET TRANSMISSION SLOTS



RANDOM ACCESS PACKET TRANSMISSION SLOTS
(CAPABLE OF SIMULTANEOUS TRANSMISSION OF m_2 RANDOM
ACCESS PACKETS BY m_2 SPREADING CODES WITHIN SLOT)

FIG. 30

BASE STATION SELECTS k_2 ($k_2 \leq n$) SLOTS OUT OF n SLOTS OF SAME TIMING IN EACH FRAME AS RANDOM ACCESS PACKET TRANSMISSION SLOTS (ARBITRARY SELECTION FROM n SLOTS)

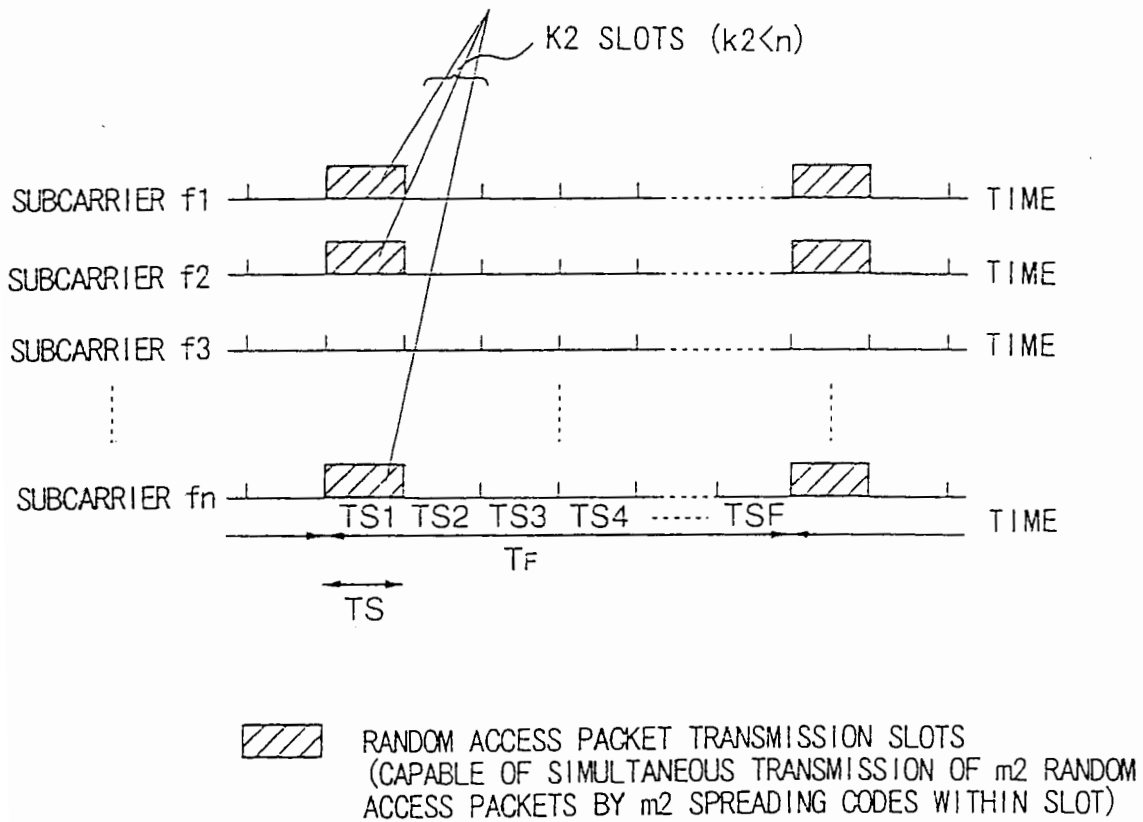


FIG. 31

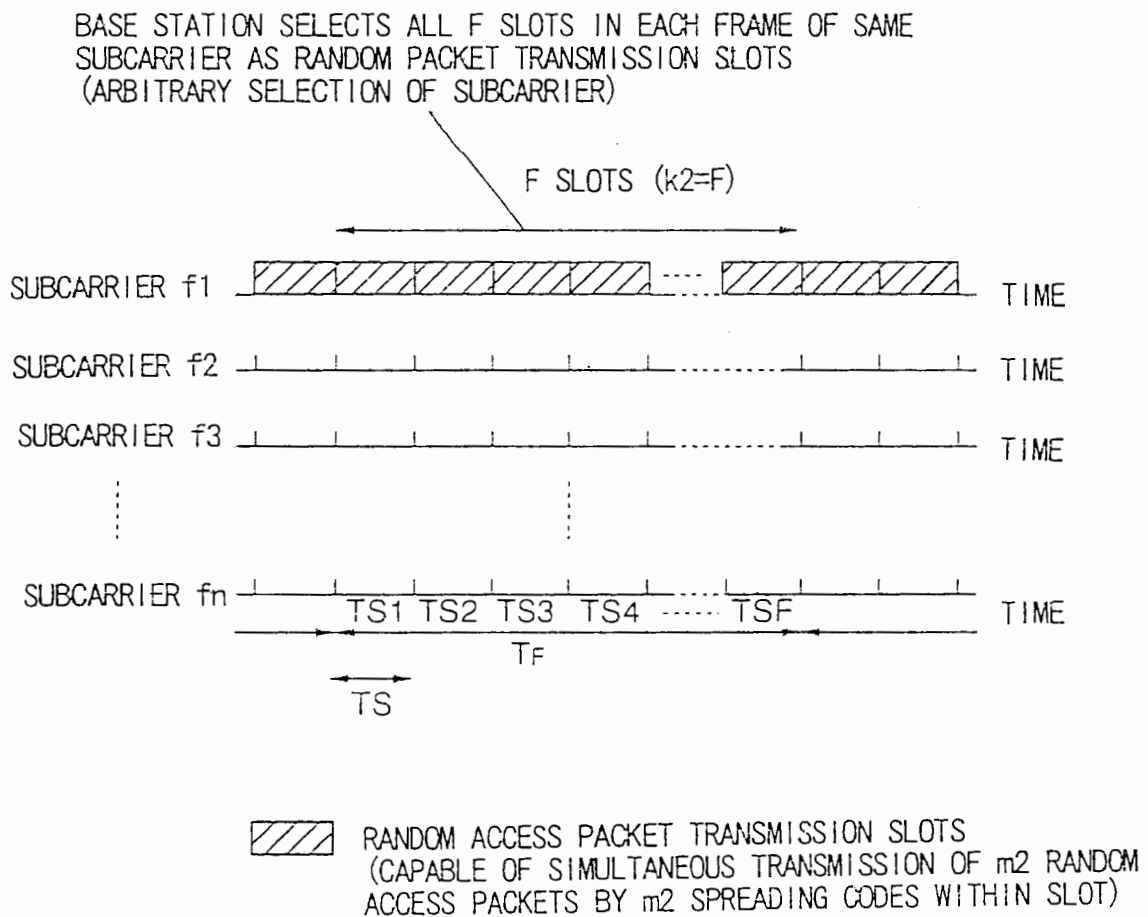
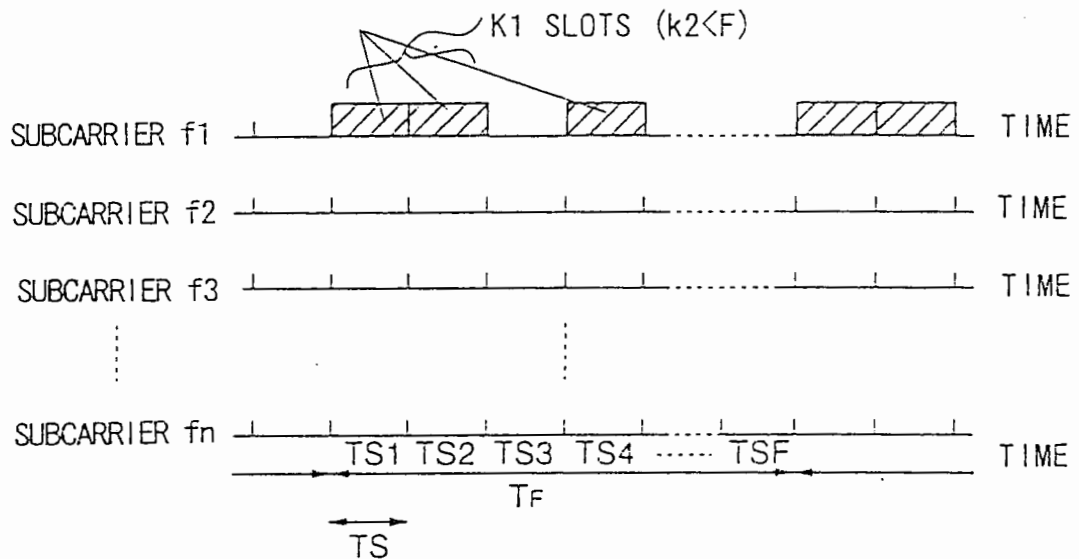


FIG. 32

BASE STATION SELECTS k_2 ($k_2 \leq F$) SLOTS FROM F SLOTS IN EACH FRAME OF SAME SUBCARRIER AS RANDOM ACCESS PACKET TRANSMISSION SLOTS (ARBITRARY SELECTION OF SUBCARRIERS AND k_2 SLOTS)



 RANDOM ACCESS PACKET TRANSMISSION SLOTS
(CAPABLE OF SIMULTANEOUS TRANSMISSION OF m_2 RANDOM ACCESS PACKETS BY m_2 SPREADING CODES WITHIN SLOT)

FIG. 33

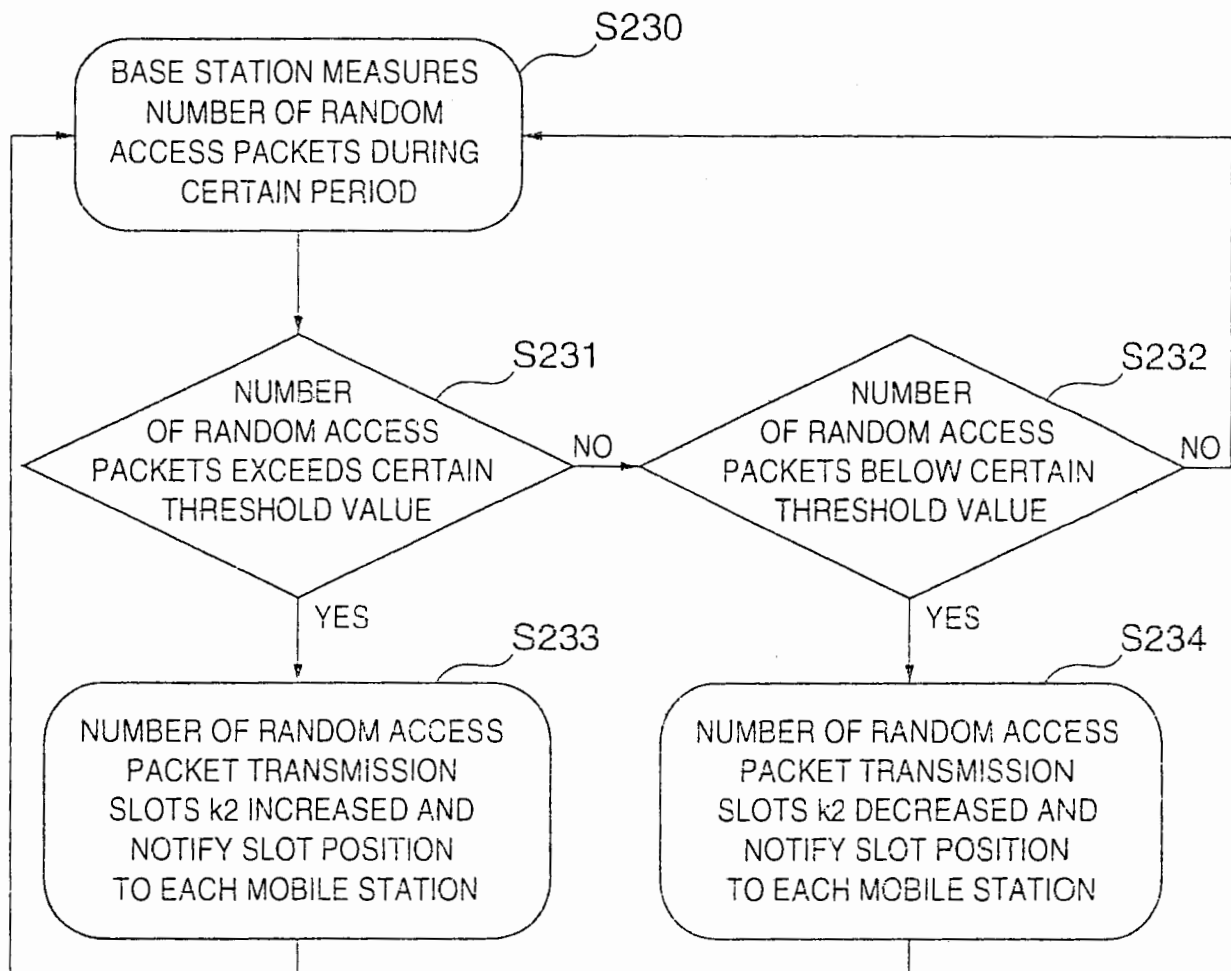


FIG. 34

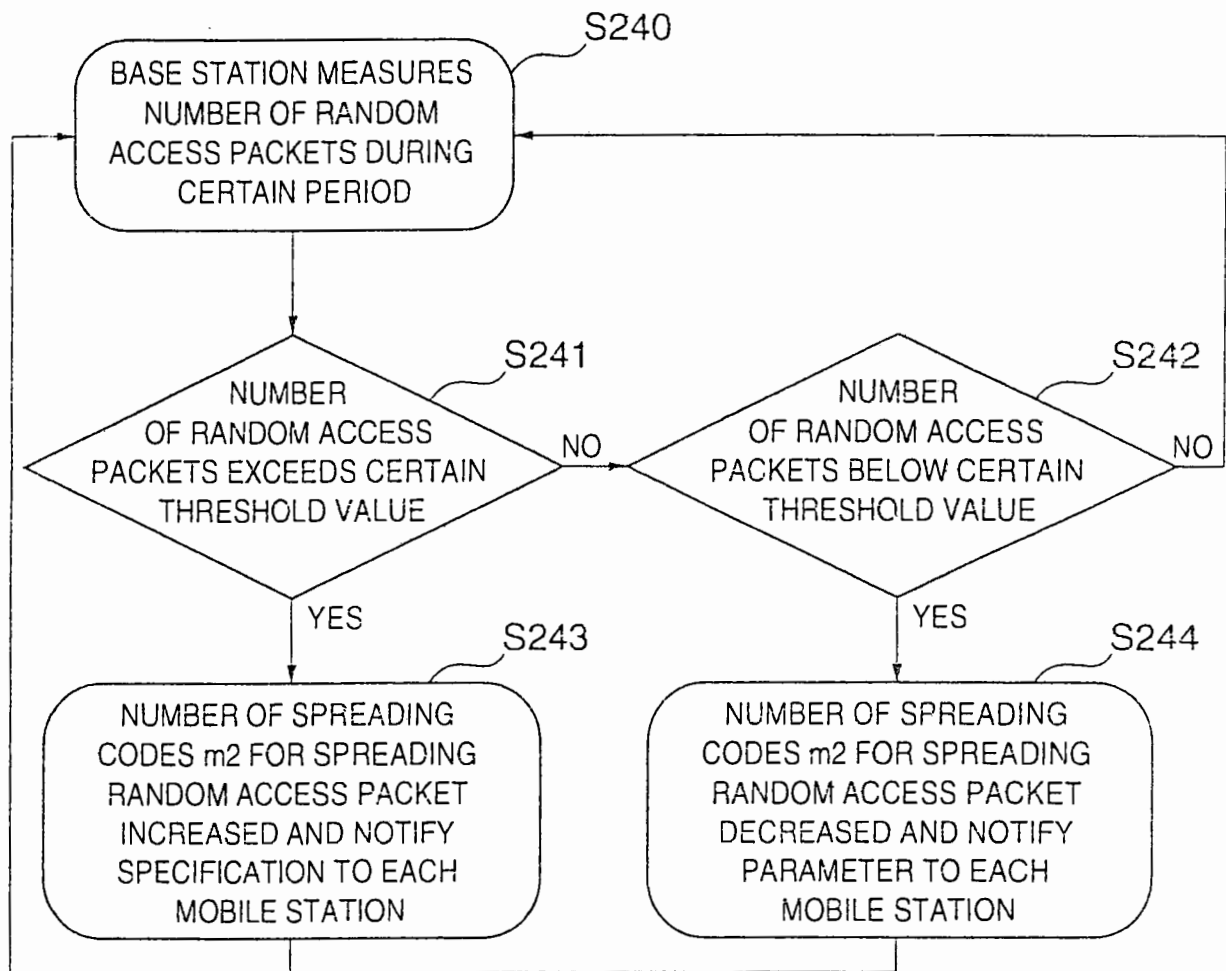


FIG. 35

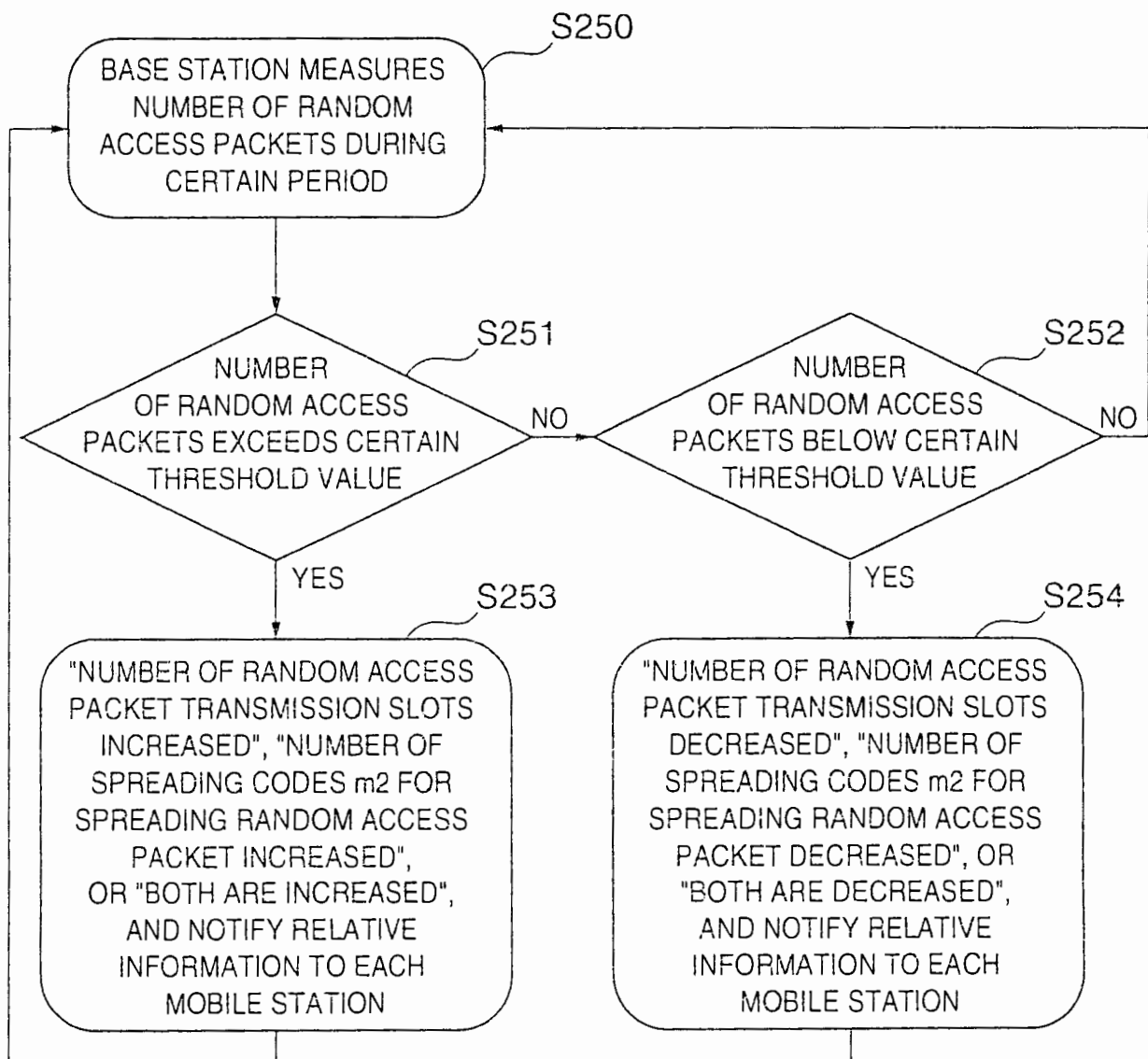


FIG. 36

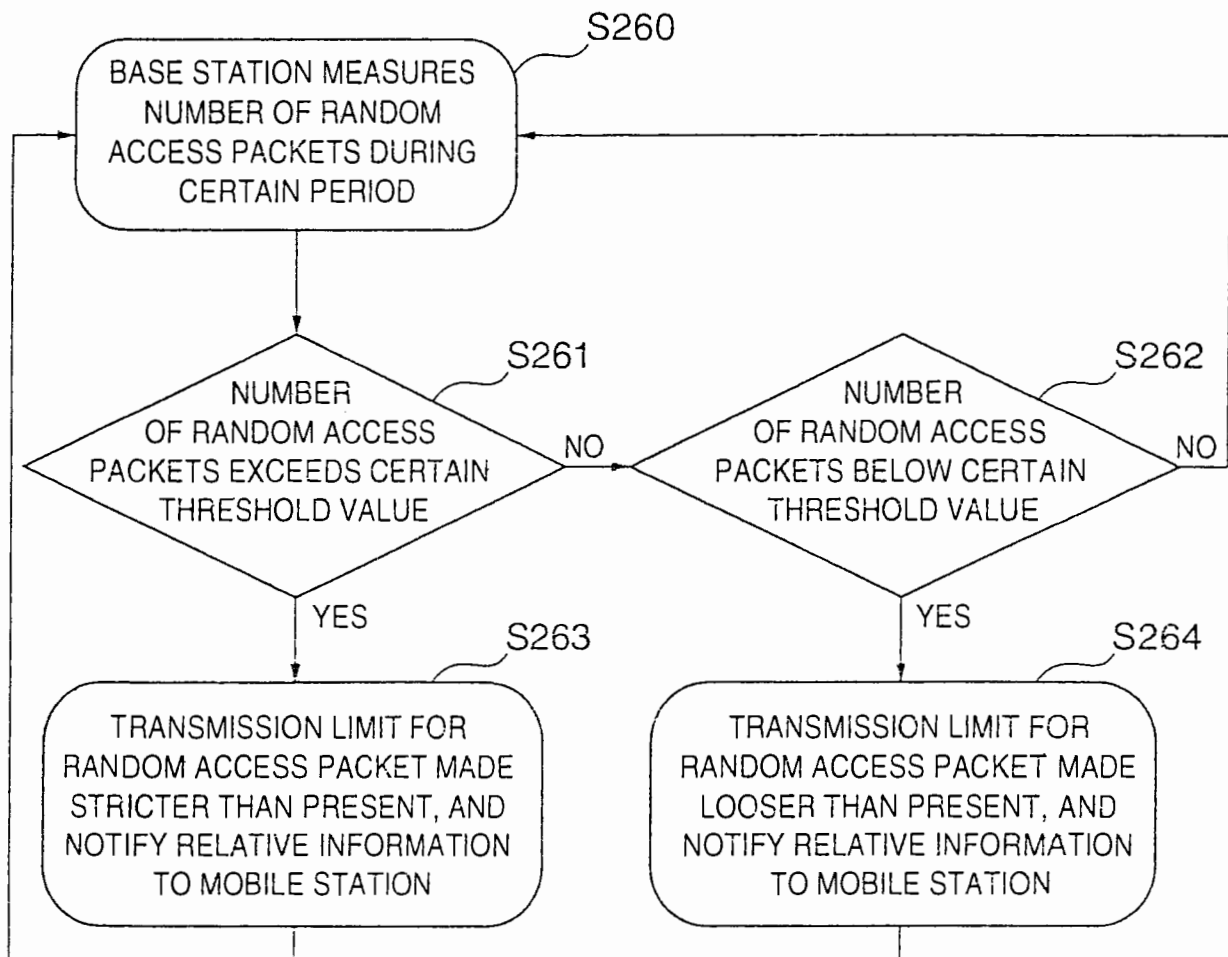


FIG. 37

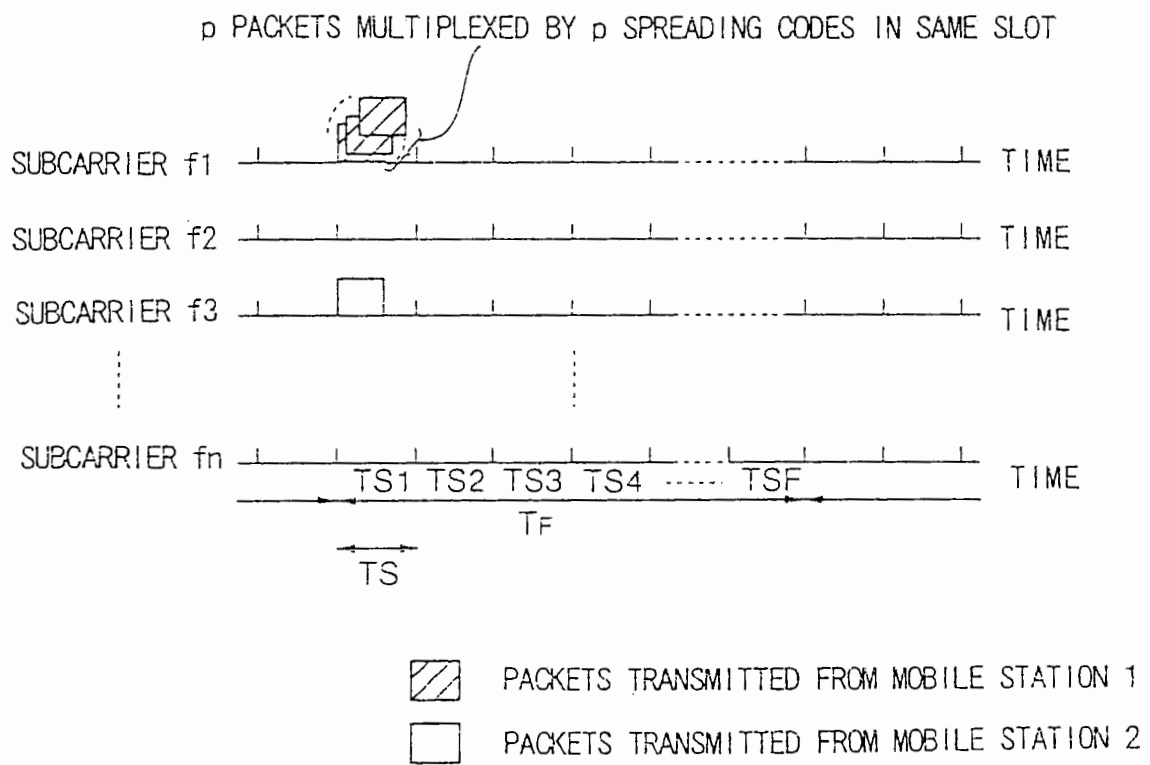


FIG. 38

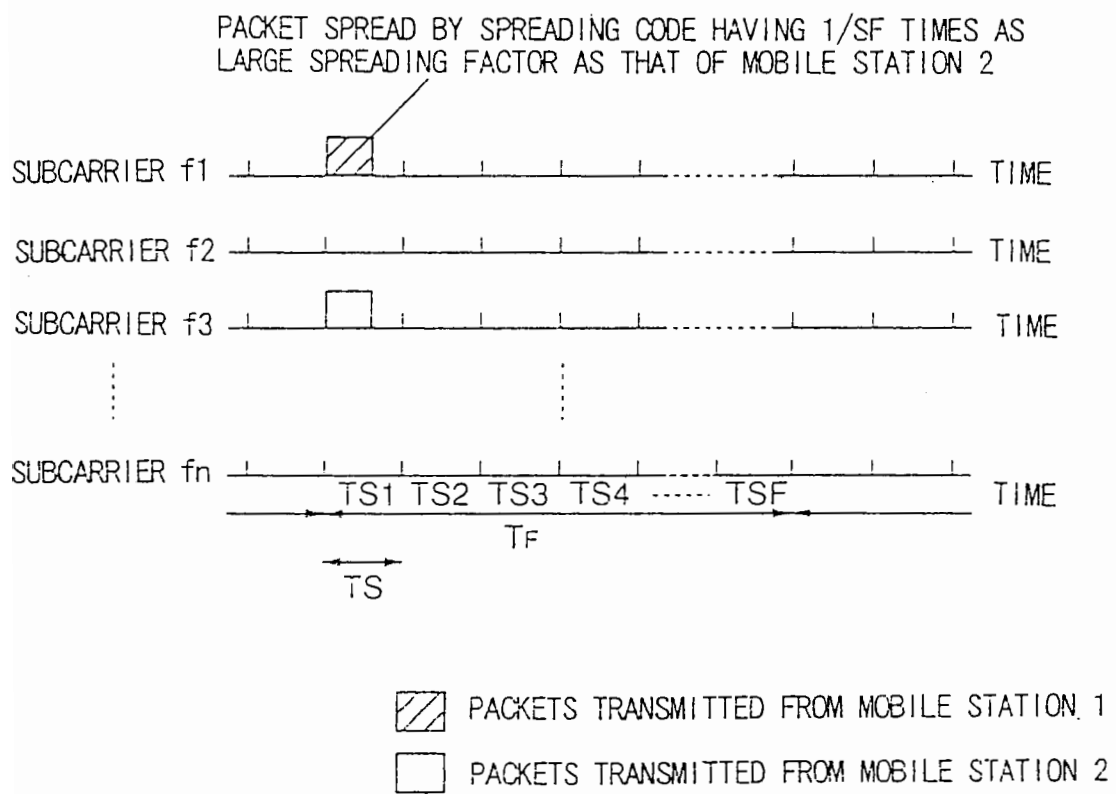


FIG. 39

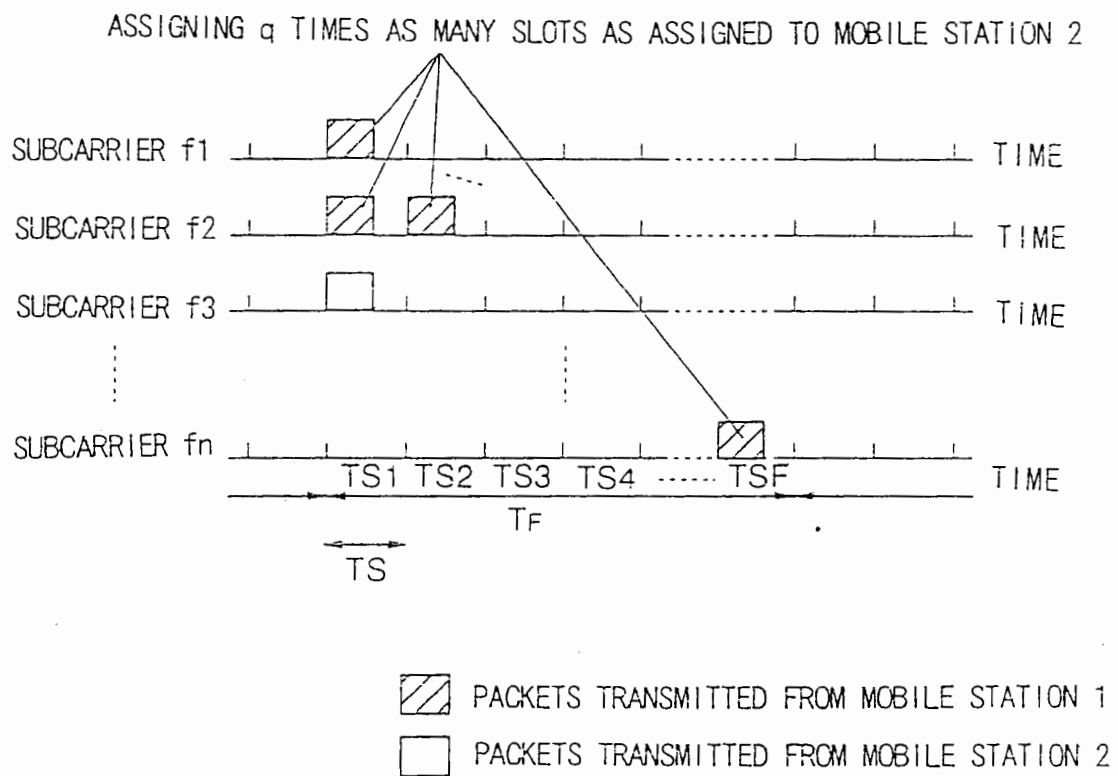


FIG. 40

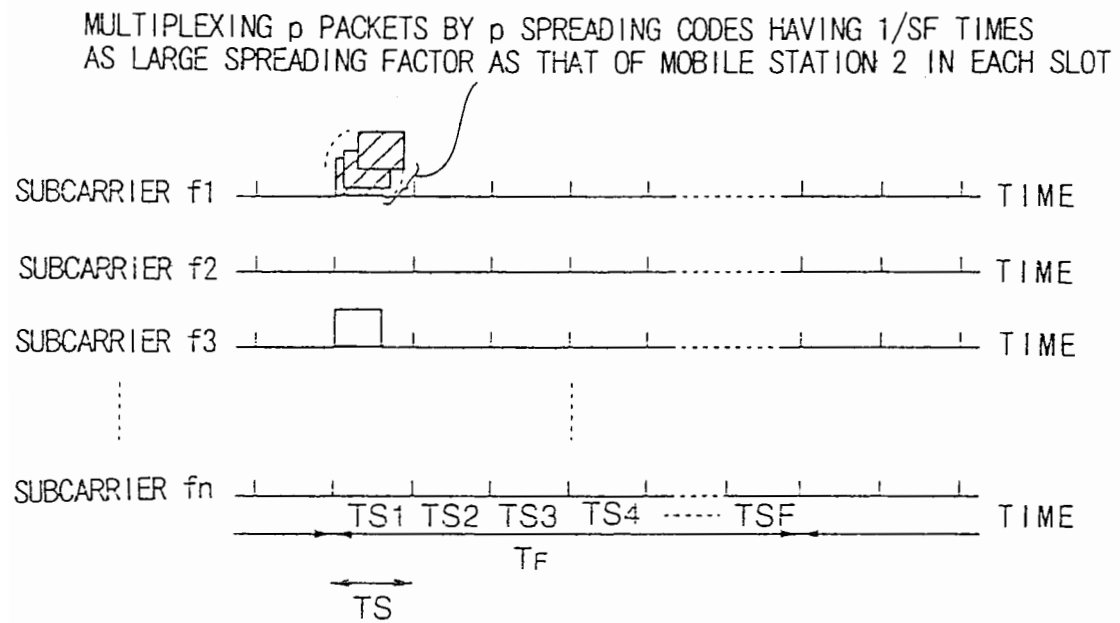


FIG. 41

MULTIPLEXING p PACKETS BY p SPREADING CODES IN EACH SLOT ASSIGNED
WITH q TIMES AS MANY SLOTS AS ASSIGNED TO MOBILE STATION 2

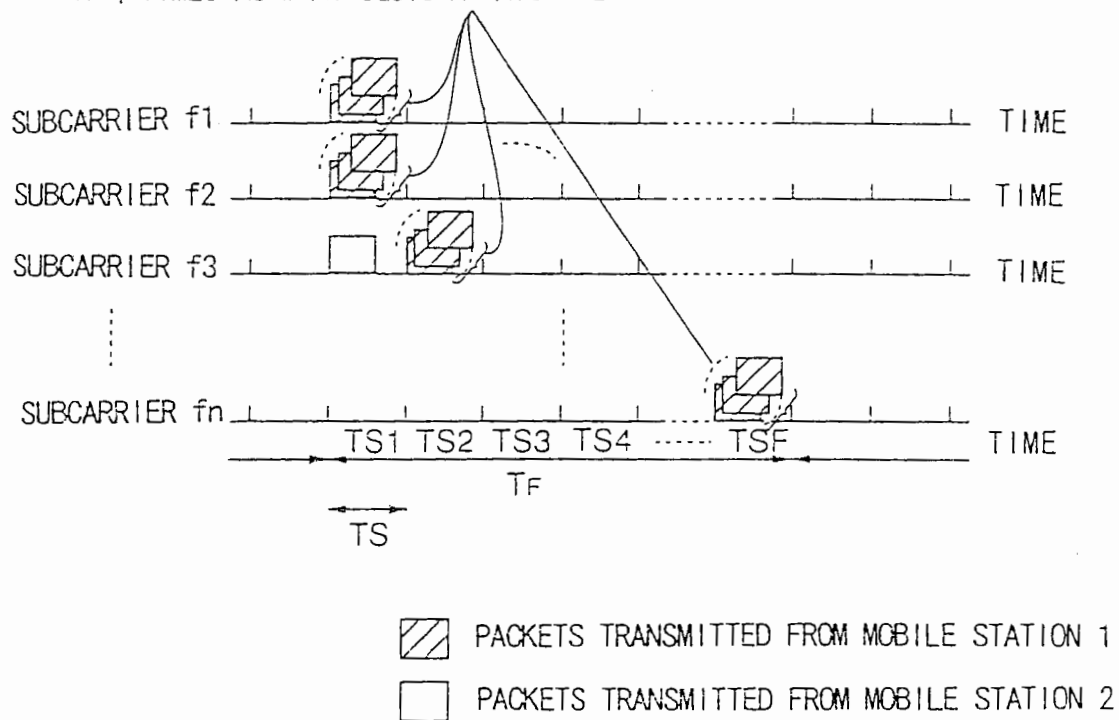
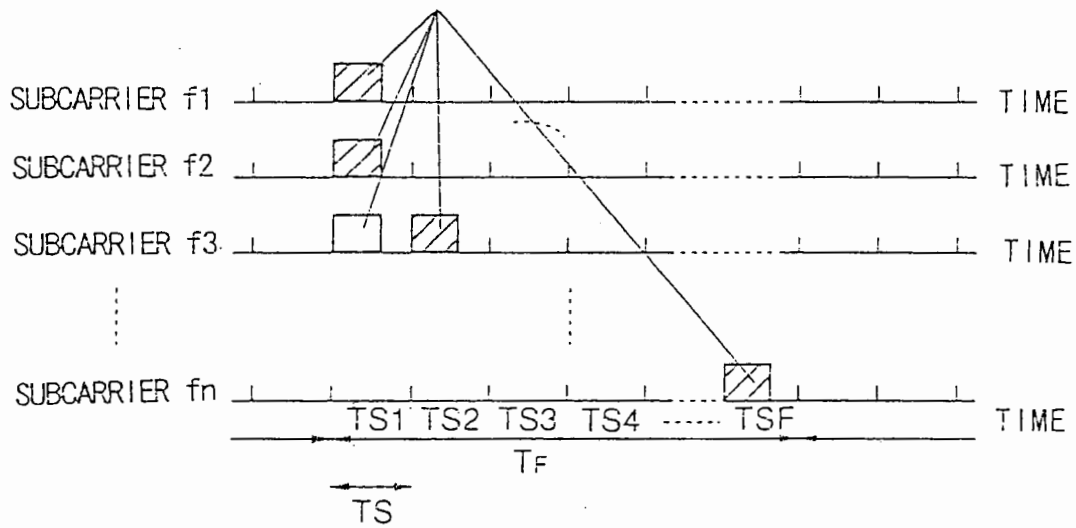


FIG. 42

PACKETS SPREAD BY SPREADING CODES HAVING $1/SF$ TIMES AS LARGE SPREADING FACTOR AS THAT OF MOBILE STATION 2 IN EACH SLOT WITH q TIMES AS MANY SLOTS AS ASSIGNED TO MOBILE STATION 2



-  PACKETS TRANSMITTED FROM MOBILE STATION 1
-  PACKETS TRANSMITTED FROM MOBILE STATION 2

FIG. 43

MULTIPLEXING q PACKETS SPREAD BY p SPREADING CODES HAVING $1/SF$ TIMES AS LARGE SPREADING FACTOR AS THAT OF MOBILE STATION 2 IN EACH SLOT WITH q TIMES AS MANY SLOTS AS ASSIGNED TO MOBILE STATION 2

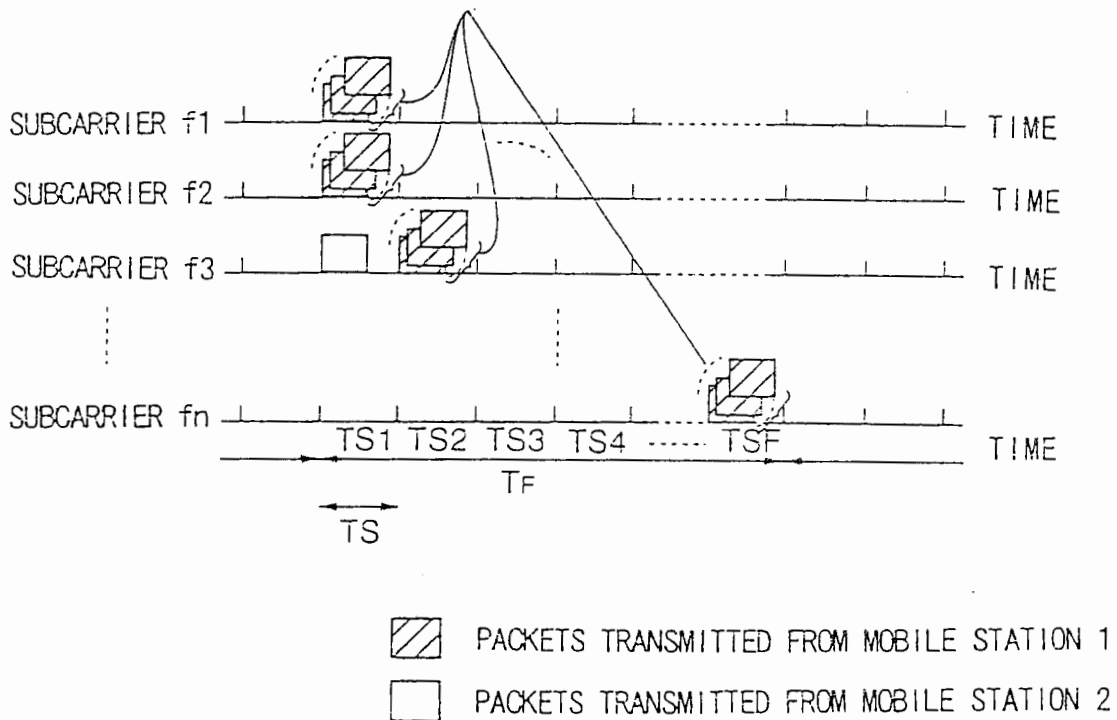


FIG. 44

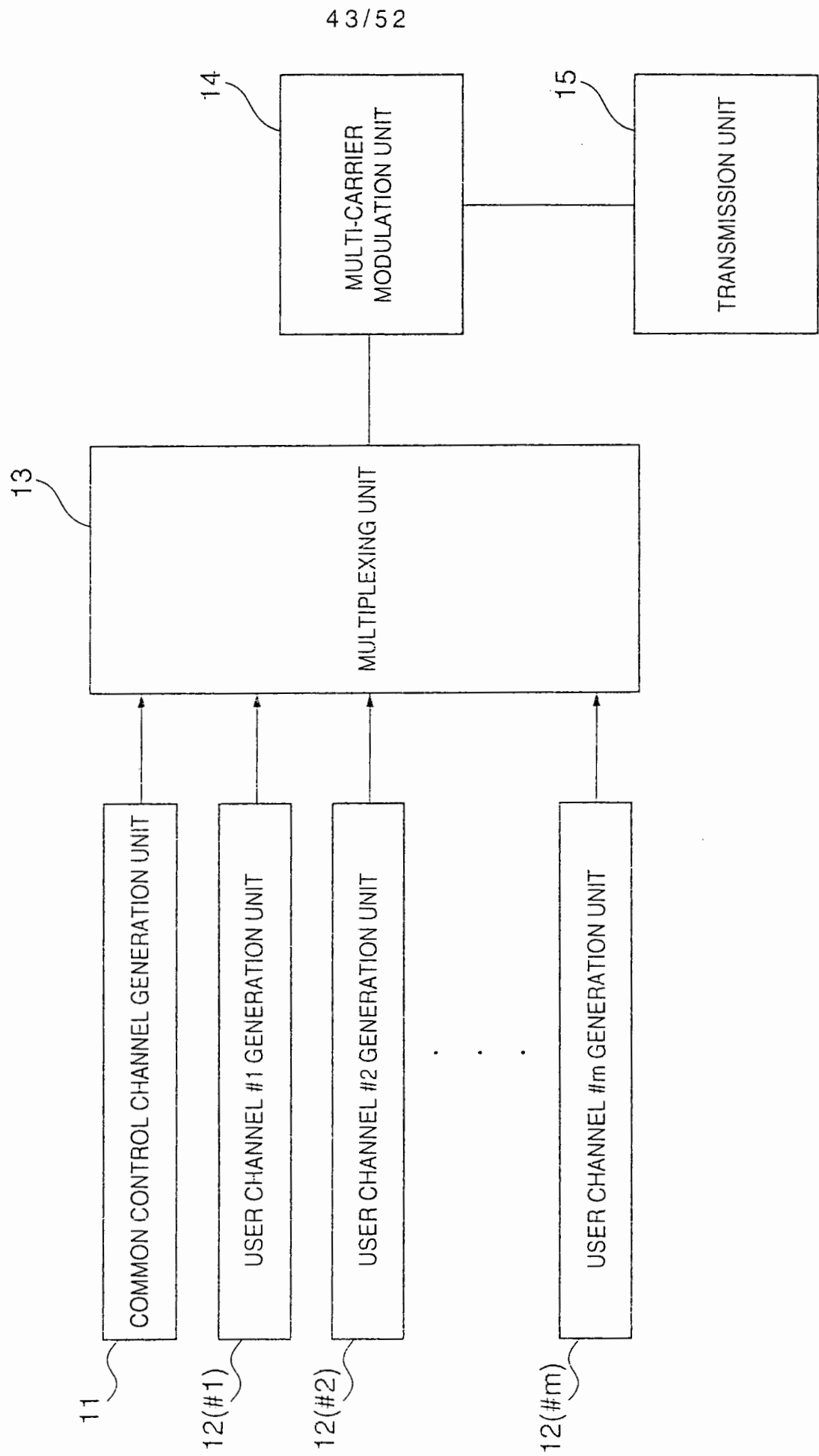


FIG. 45

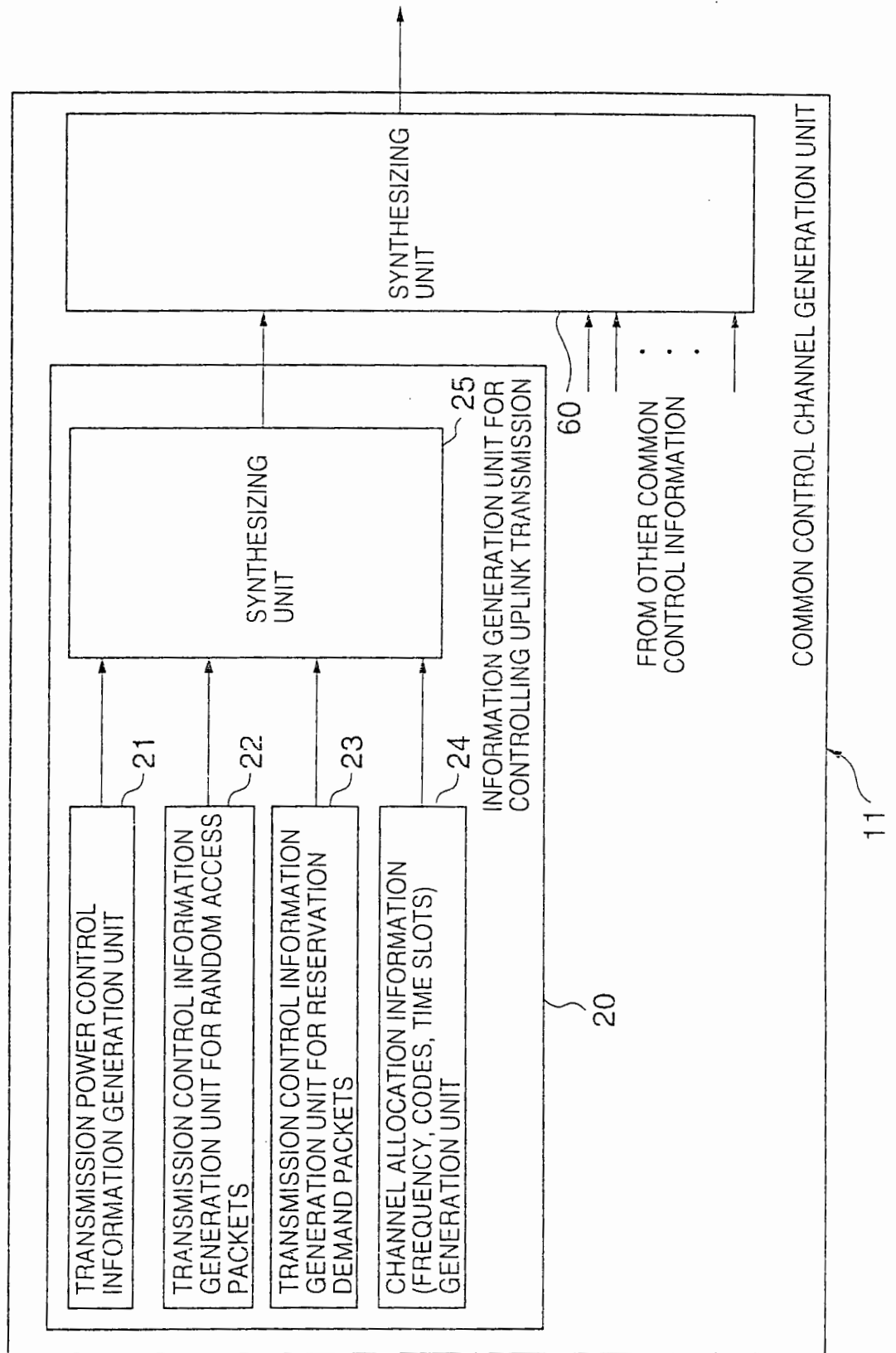


FIG. 46

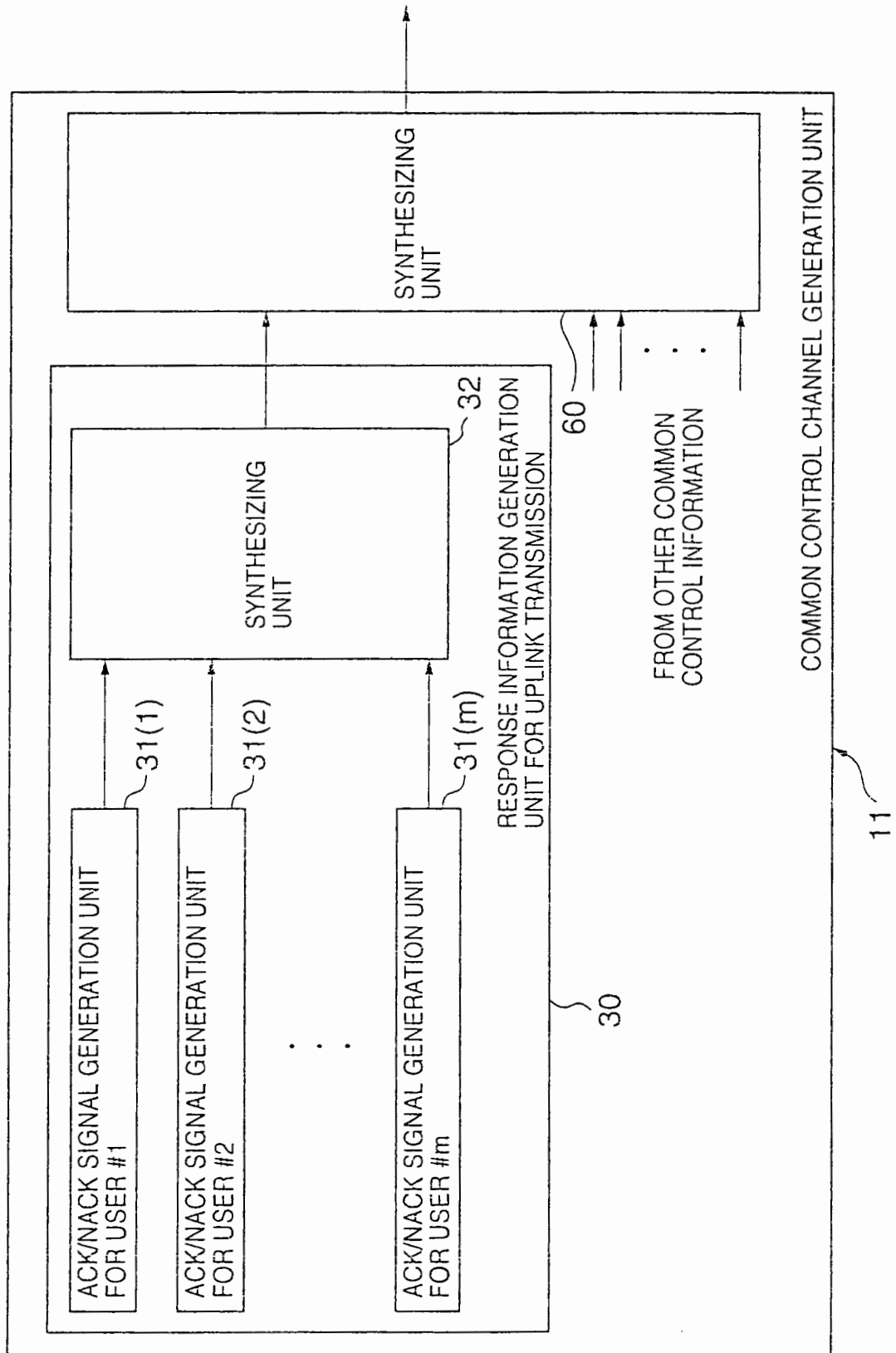


FIG. 47

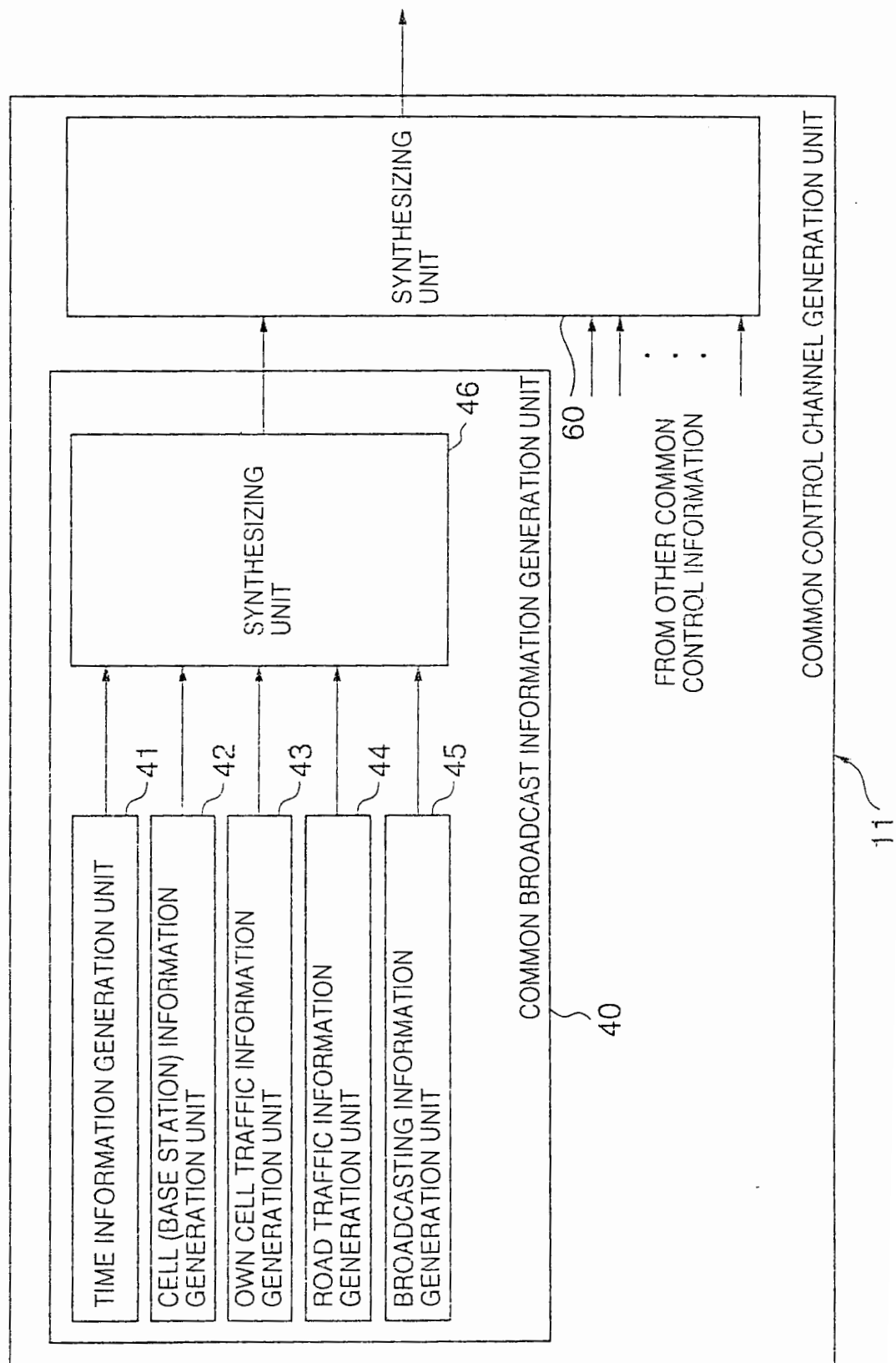


FIG. 48

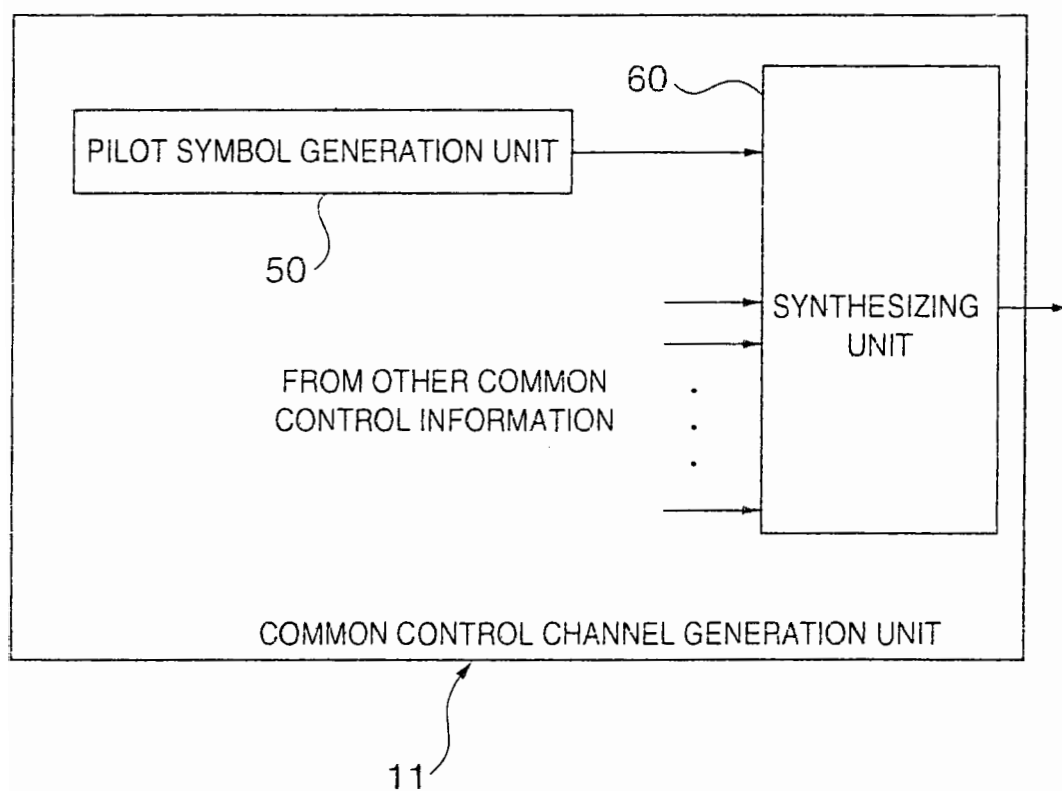


FIG. 49

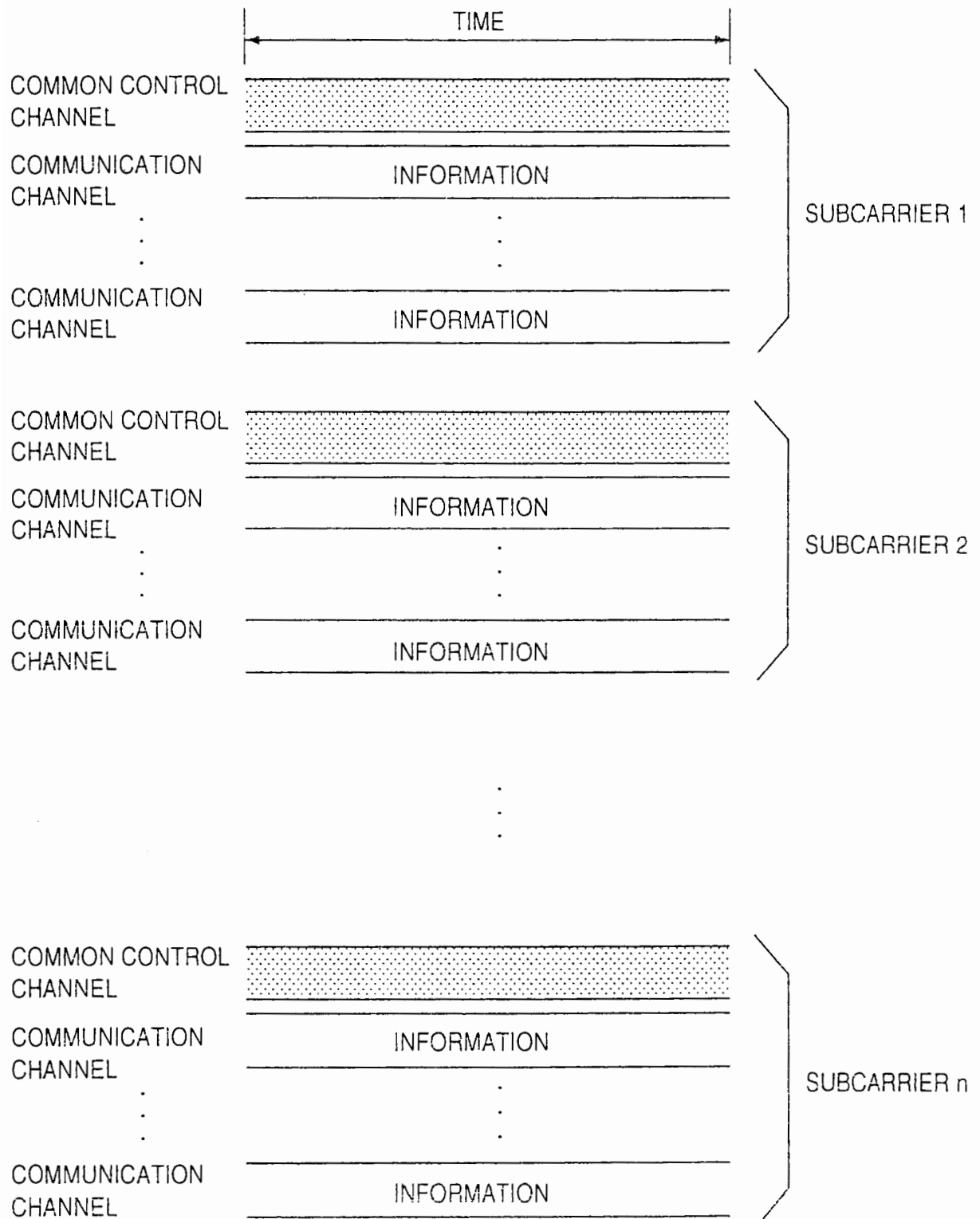


FIG. 50

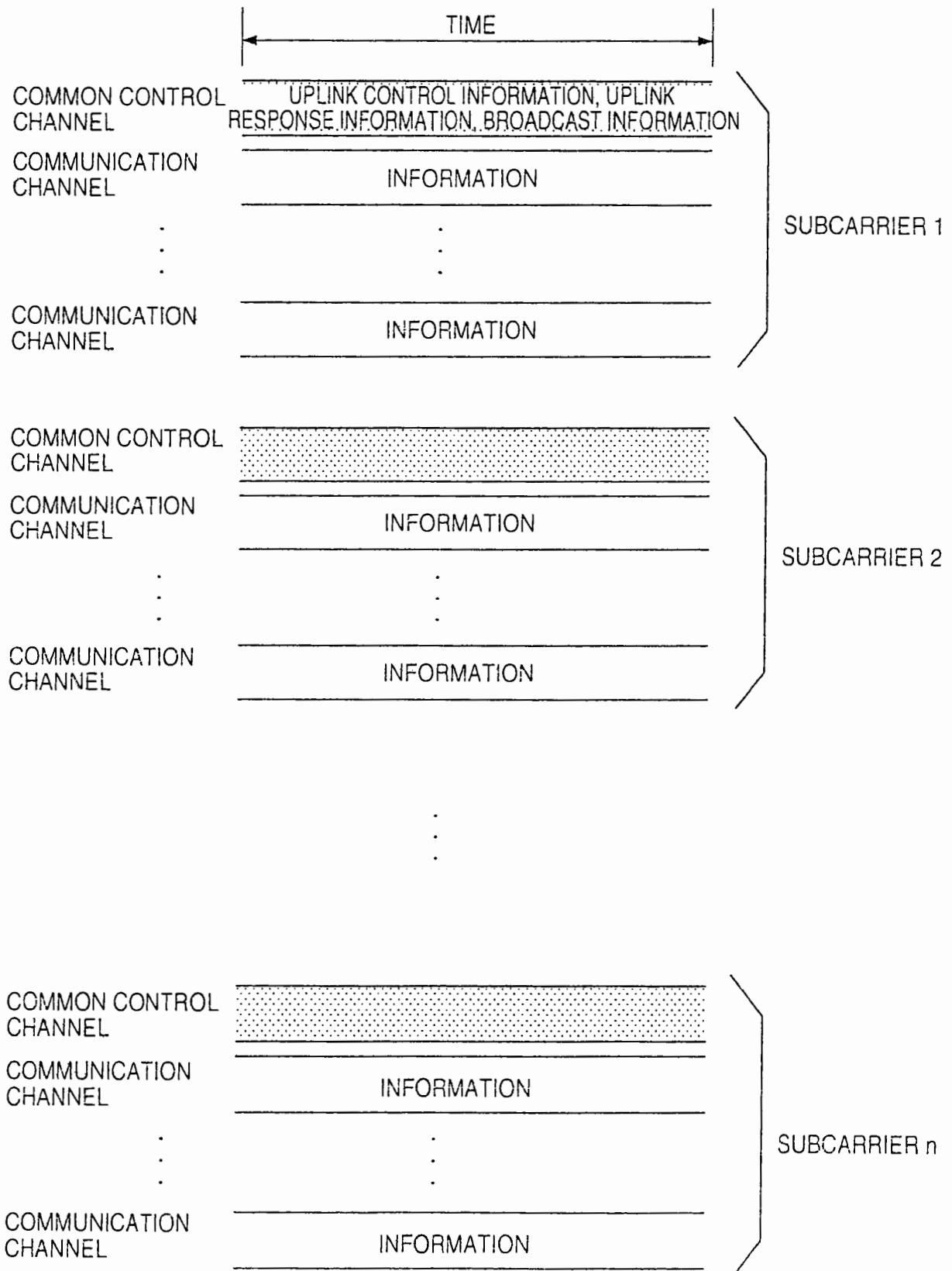


FIG. 51

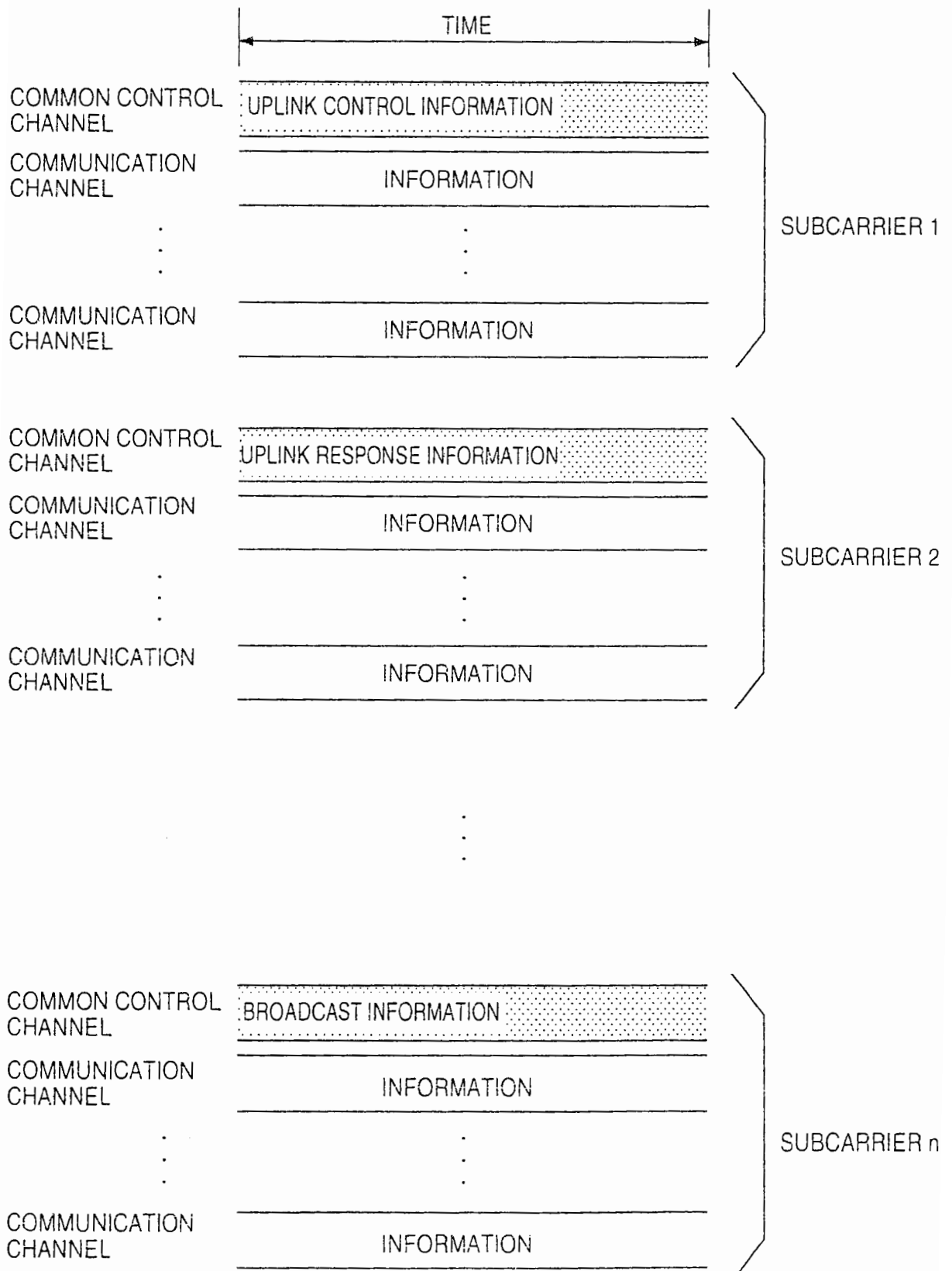


FIG. 52

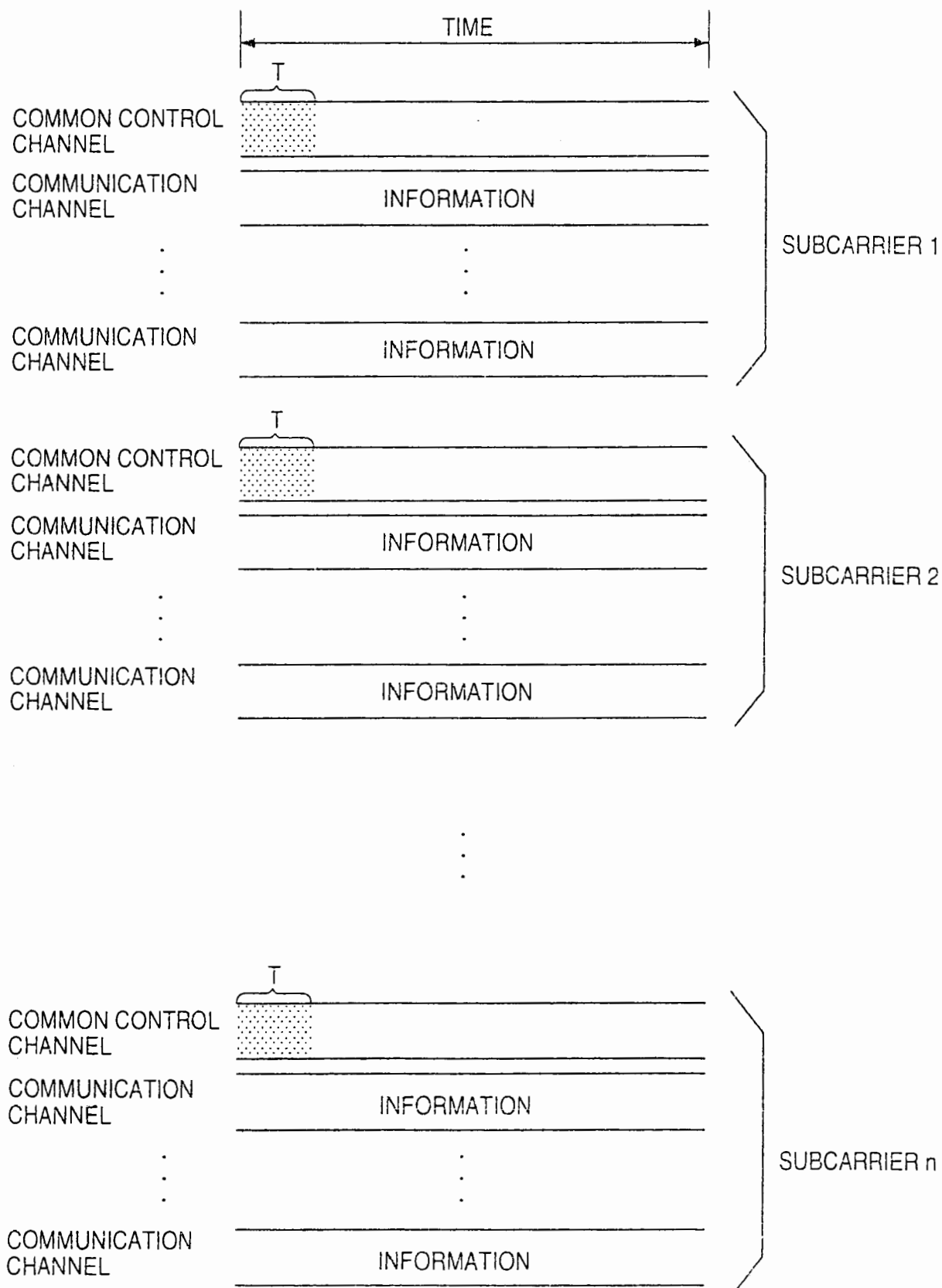


FIG. 53

