FIG.1

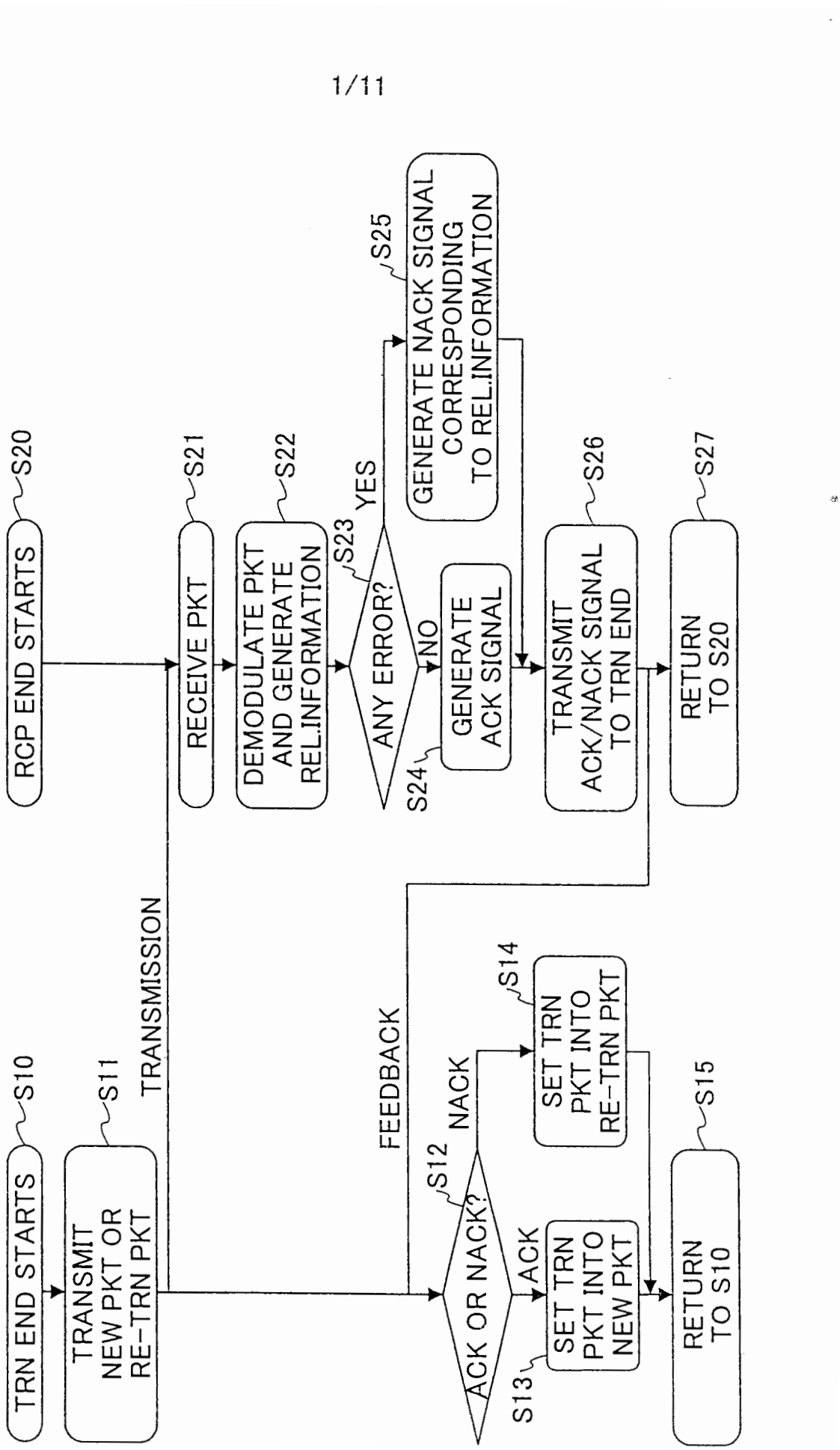

TRN END STARTS
S10
TRANSMIT NEW PKT OR RE-TRN PKT
S11
TRANSMISSION
RCP END STARTS
S20
RECEIVE PKT
S21
DEMODULATE PKT AND GENERATE REL.INFORMATION
S22
ANY ERROR?
S23
YES
NO
GENERATE NACK SIGNAL CORRESPONDING TO REL.INFORMATION
S25
GENERATE ACK SIGNAL
S24
FEEDBACK
TRANSMIT ACK/NACK SIGNAL TO TRN END
S26
RETURN TO S20
S27
ACK OR NACK?
S12
NACK
ACK
SET TRN PKT INTO RE-TRN PKT
S14
SET TRN PKT INTO NEW PKT
S13
RETURN TO S10
S15

FIG.2

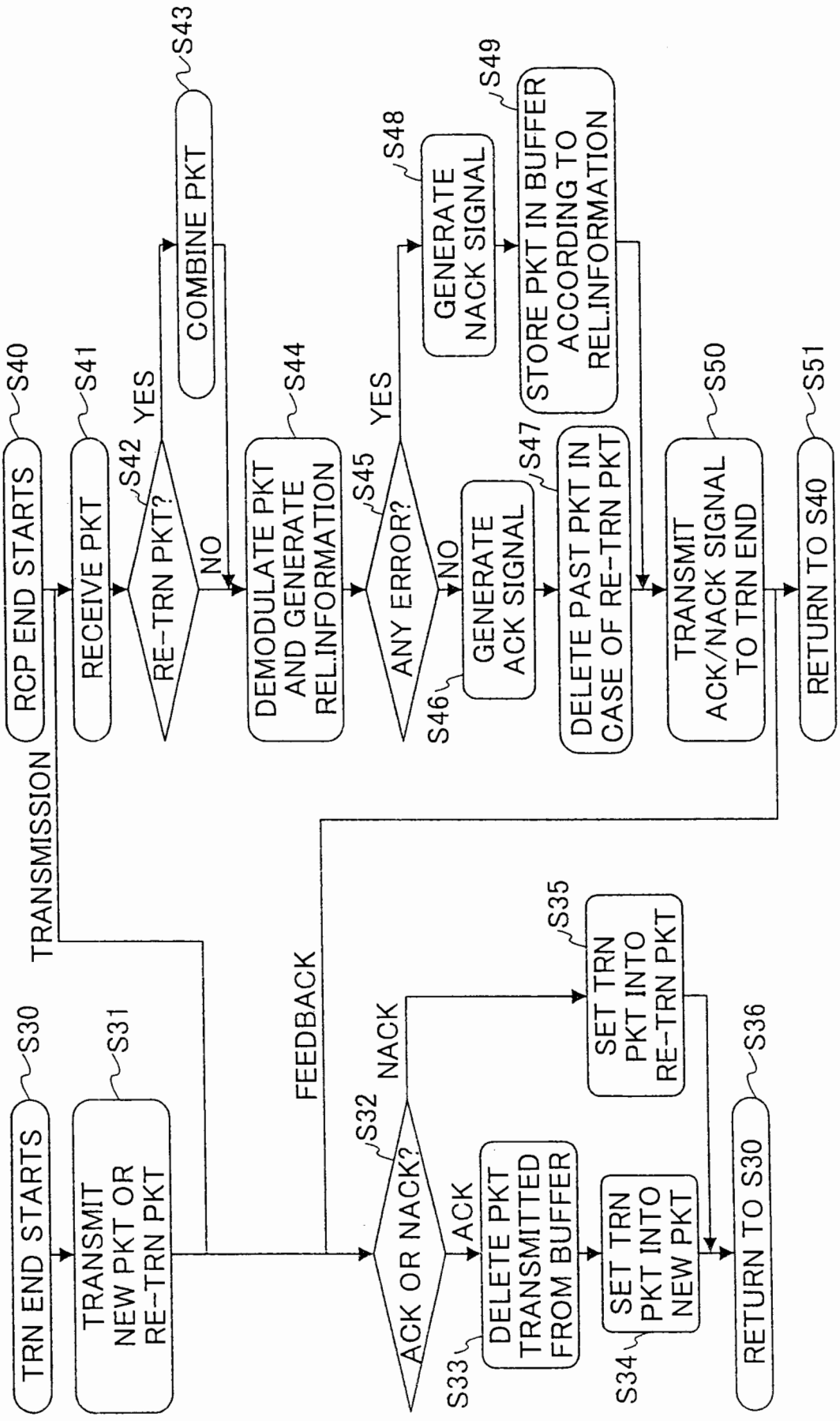

TRN END STARTS
S30
TRANSMIT NEW PKT OR RE-TRN PKT
S31
TRANSMISSION
RCP END STARTS
S40
RECEIVE PKT
S41
RE-TRN PKT?
S42
YES
NO
COMBINE PKT
S43
DEMODULATE PKT AND GENERATE REL.INFORMATION
S44
ANY ERROR?
S45
YES
NO
GENERATE ACK SIGNAL
S46
GENERATE NACK SIGNAL
S48
DELETE PAST PKT IN CASE OF RE-TRN PKT
S47
STORE PKT IN BUFFER ACCORDING TO REL.INFORMATION
S49
TRANSMIT ACK/NACK SIGNAL TO TRN END
S50
RETURN TO S40
S51
FEEDBACK
ACK OR NACK?
S32
ACK
NACK
DELETE PKT TRANSMITTED FROM BUFFER
S33
SET TRN PKT INTO NEW PKT
S34
SET TRN PKT INTO RE-TRN PKT
S35
RETURN TO S30
S36

FIG.3

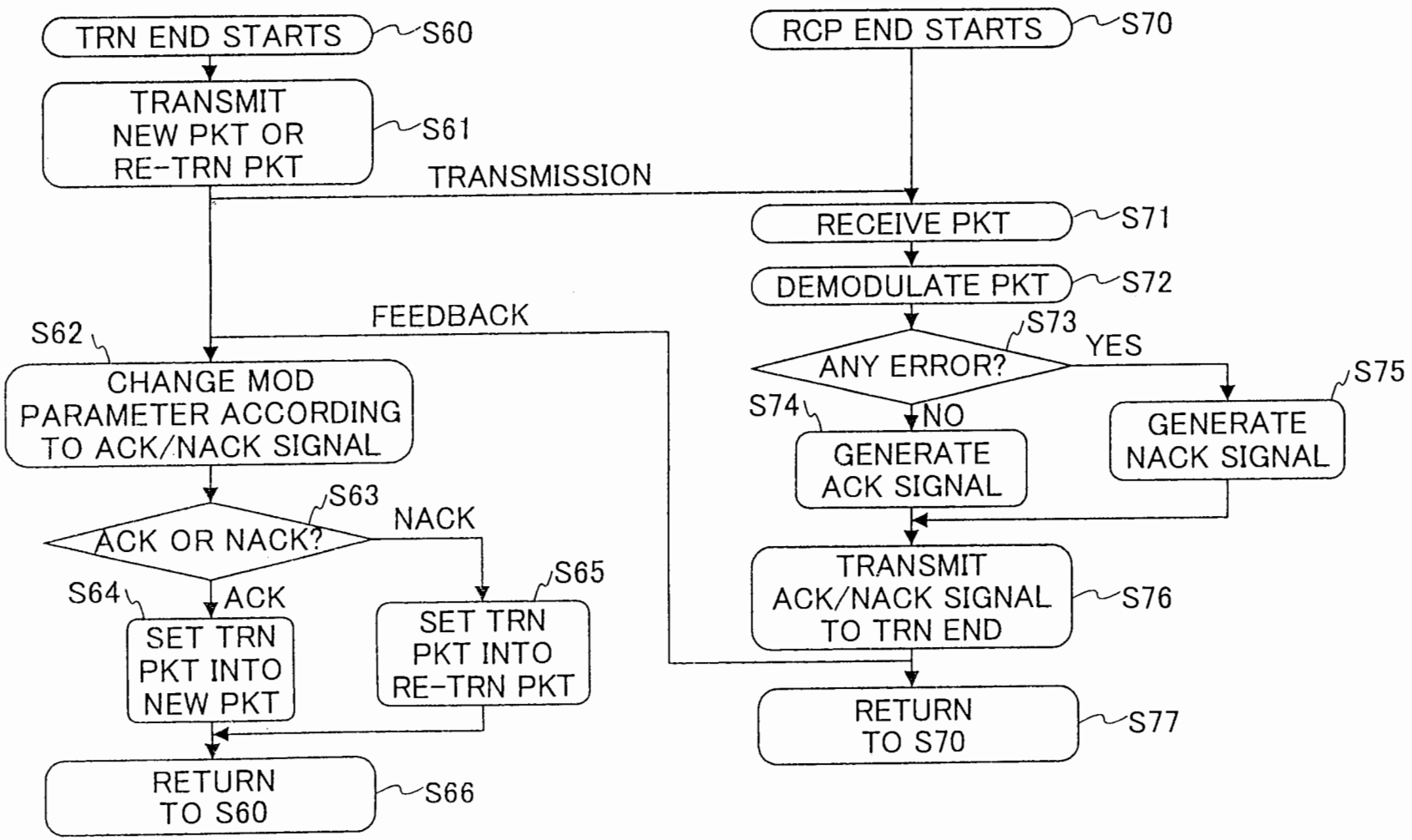

TRN END STARTS
S60
TRANSMIT NEW PKT OR RE-TRN PKT
S61
TRANSMISSION
RCP END STARTS
S70
RECEIVE PKT
S71
DEMODULATE PKT
S72
S73
ANY ERROR?
YES
NO
S74
GENERATE ACK SIGNAL
S75
GENERATE NACK SIGNAL
FEEDBACK
S62
CHANGE MOD PARAMETER ACCORDING TO ACK/NACK SIGNAL
S63
ACK OR NACK?
NACK
ACK
S64
SET TRN PKT INTO NEW PKT
S65
SET TRN PKT INTO RE-TRN PKT
TRANSMIT ACK/NACK SIGNAL TO TRN END
S76
RETURN TO S70
S77
RETURN TO S60
S66

FIG.4

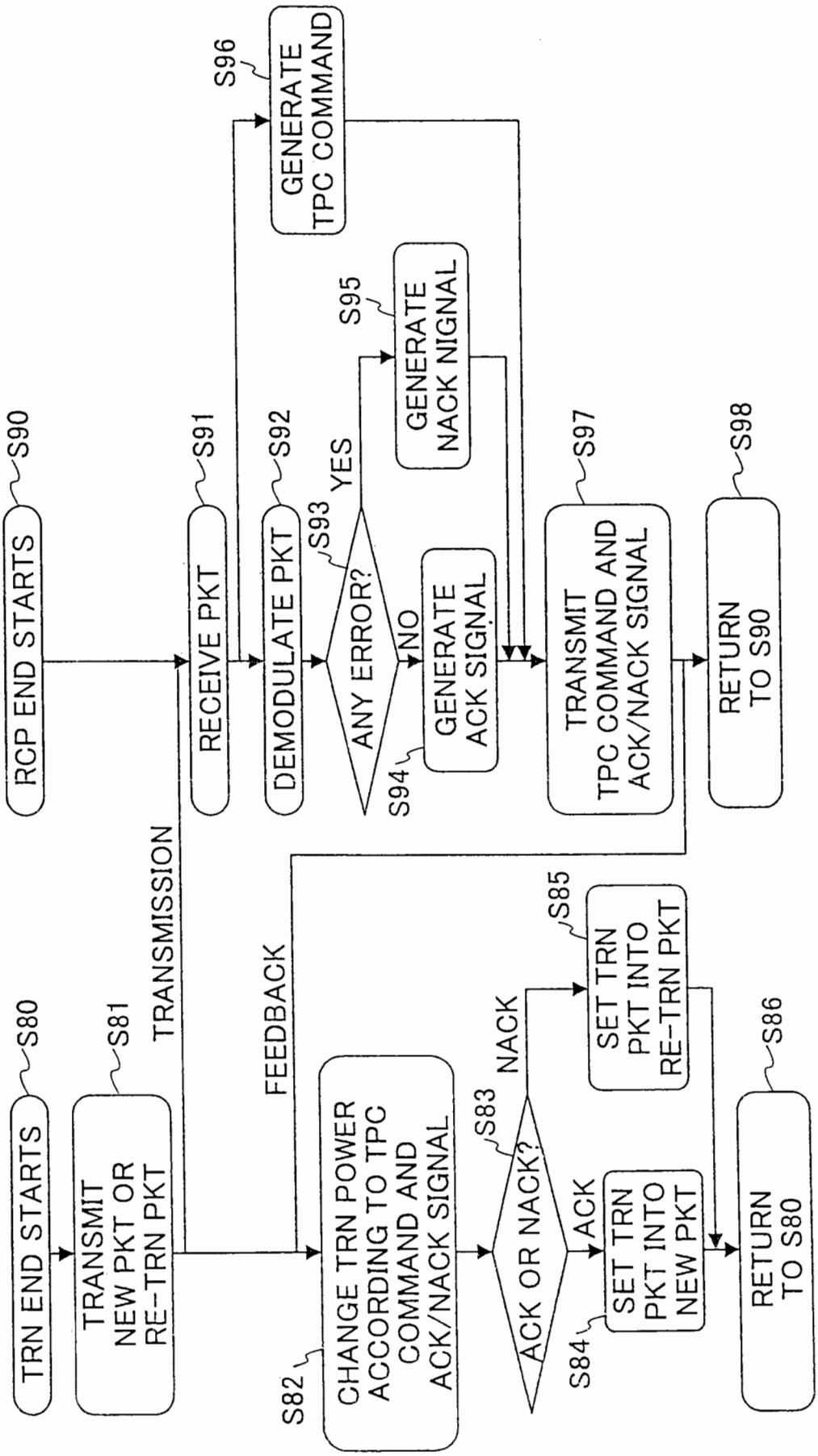

TRN END STARTS
S80
TRANSMIT NEW PKT OR RE-TRN PKT
S81
TRANSMISSION
CHANGE TRN POWER ACCORDING TO TPC COMMAND AND ACK/NACK SIGNAL
S82
FEEDBACK
ACK OR NACK?
S83
ACK
SET TRN PKT INTO NEW PKT
S84
NACK
SET TRN PKT INTO RE-TRN PKT
S85
RETURN TO S80
S86
RCP END STARTS
S90
RECEIVE PKT
S91
DEMODULATE PKT
S92
ANY ERROR?
S93
YES
NO
GENERATE ACK SIGNAL
S94
GENERATE NACK NIGNAL
S95
GENERATE TPC COMMAND
S96
TRANSMIT TPC COMMAND AND ACK/NACK SIGNAL
S97
RETURN TO S90
S98

FIG.5

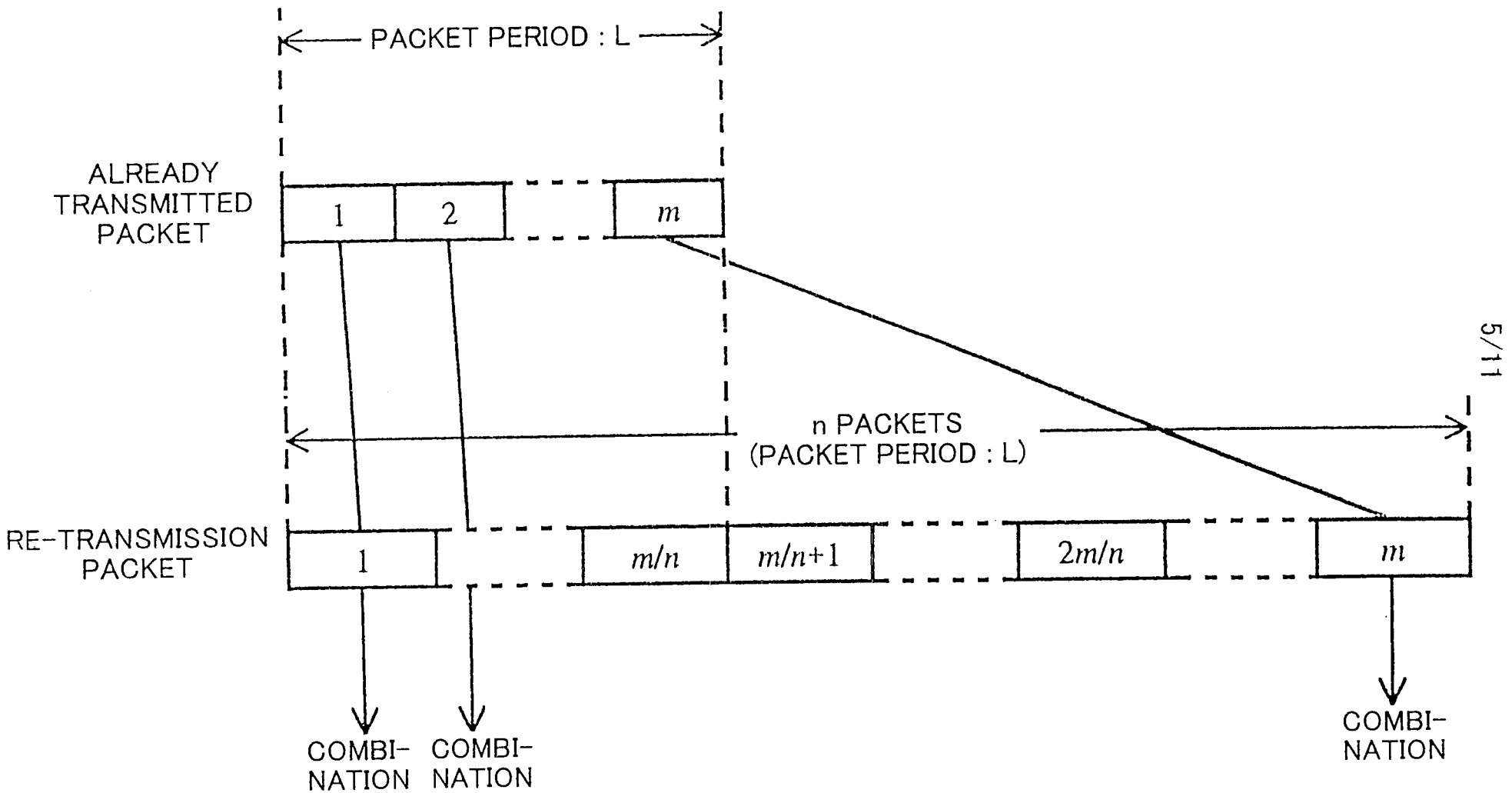

PACKET PERIOD : L
ALREADY TRANSMITTED PACKET
1
2
m
n PACKETS
(PACKET PERIOD : L)
RE-TRANSMISSION PACKET
1
m/n
m/n+1
2m/n
m
COMBI-NATION
COMBI-NATION
COMBI-NATION

FIG.6

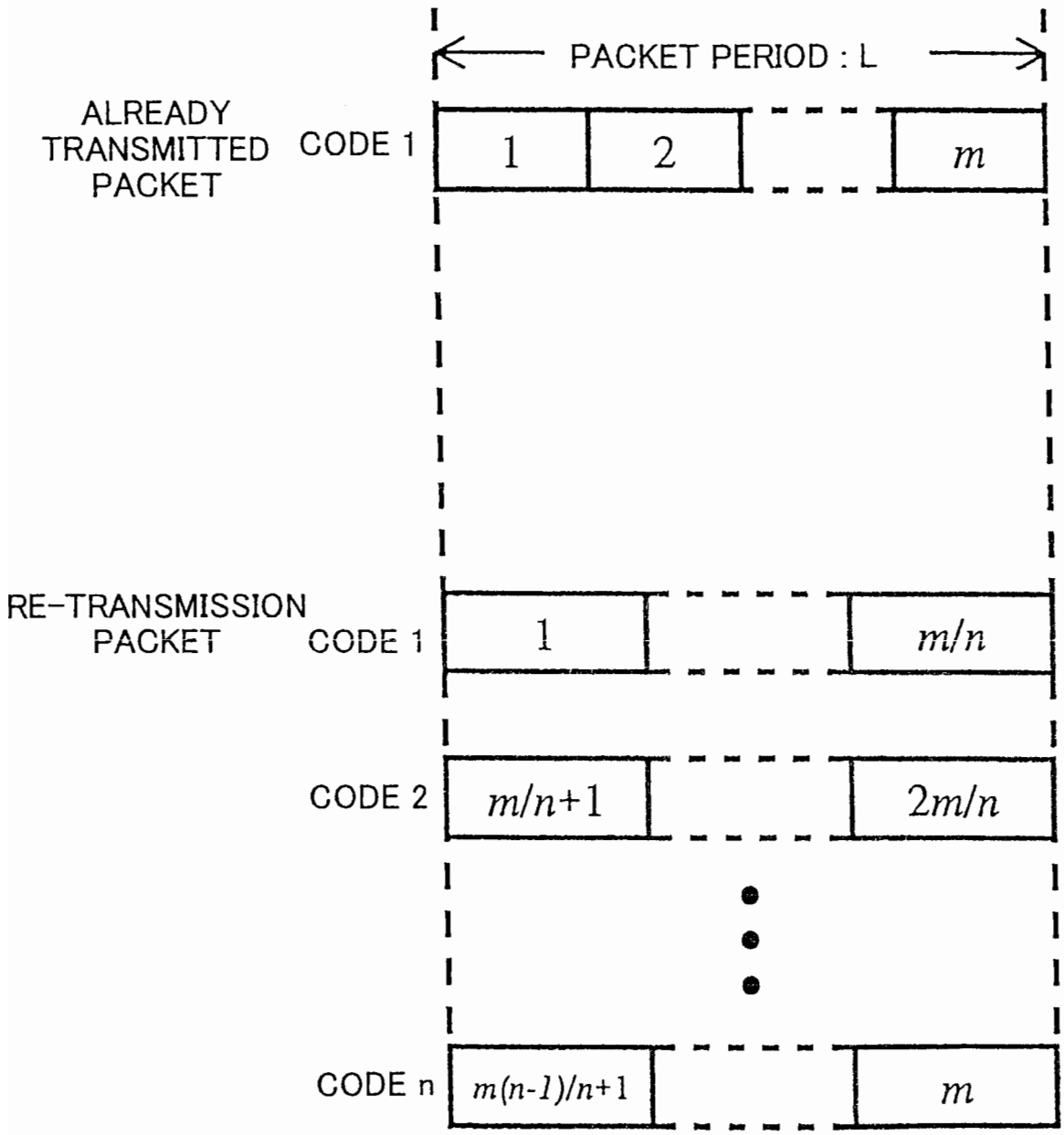

PACKET PERIOD : L
ALREADY TRANSMITTED PACKET
CODE 1
1
2
m
RE-TRANSMISSION PACKET
CODE 1
1
m/n
CODE 2
m/n+1
2m/n
CODE n
m(n-1)/n+1
m

FIG.7

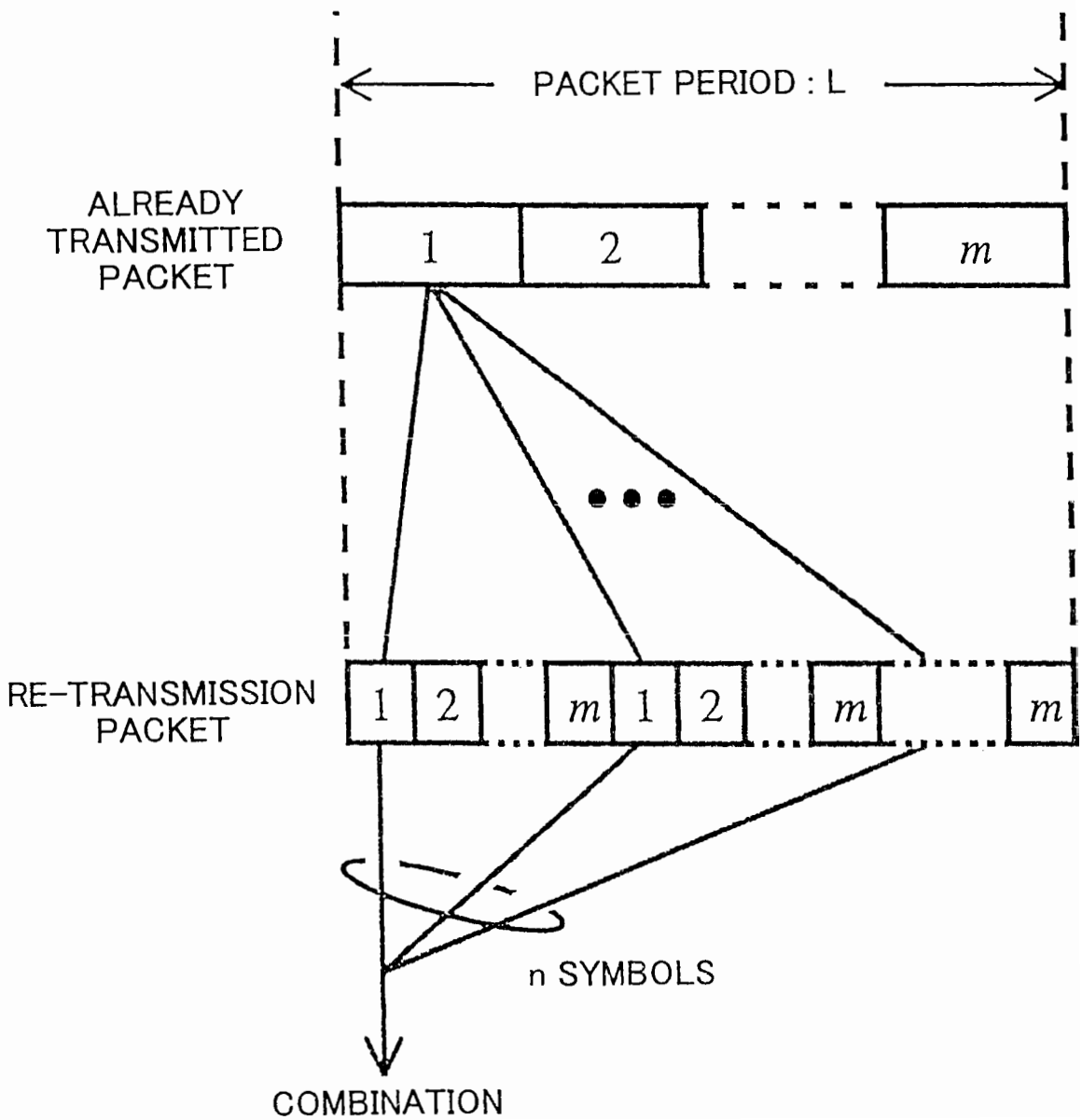

PACKET PERIOD : L
ALREADY TRANSMITTED PACKET
1
2
m
RE-TRANSMISSION PACKET
1
2
m
1
2
m
m
n SYMBOLS
COMBINATION

FIG.8

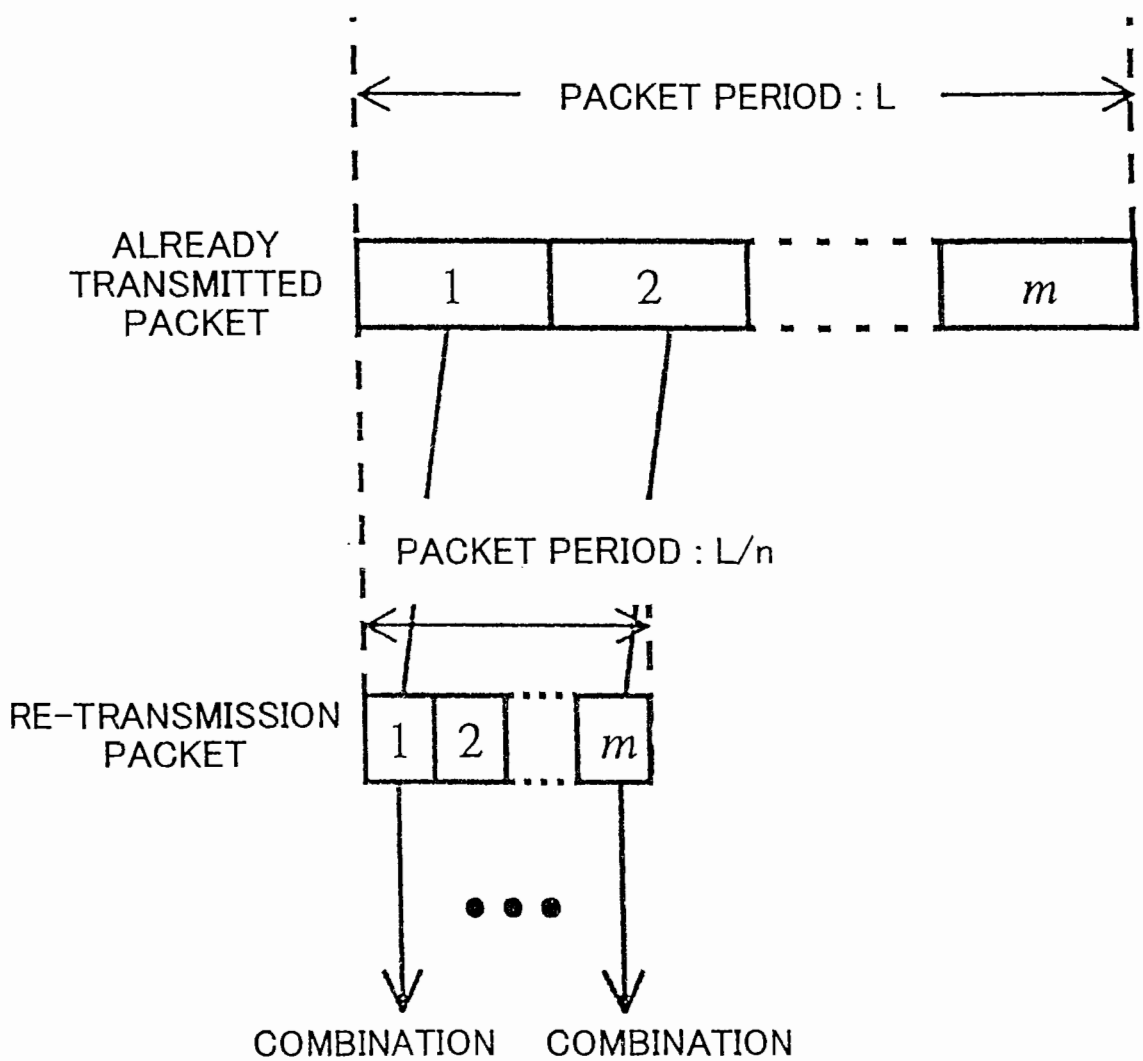

PACKET PERIOD : L
ALREADY TRANSMITTED PACKET
1
2
m
PACKET PERIOD : L/n
RE-TRANSMISSION PACKET
1
2
m
COMBINATION
COMBINATION

FIG.9

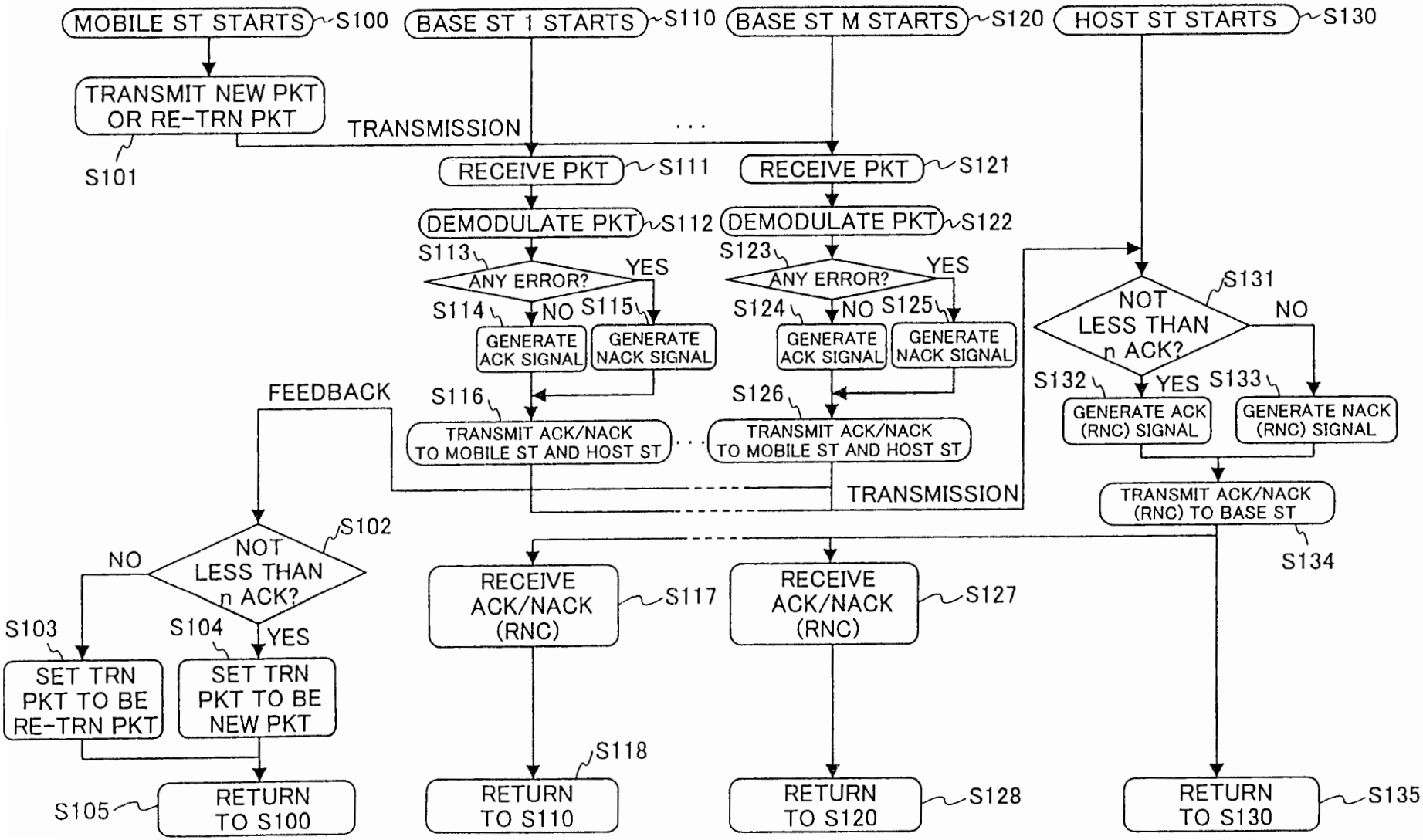

MOBILE ST STARTS
S100
BASE ST 1 STARTS
S110
BASE ST M STARTS
S120
HOST ST STARTS
S130
TRANSMIT NEW PKT OR RE-TRN PKT
S101
TRANSMISSION
RECEIVE PKT
S111
RECEIVE PKT
S121
DEMODULATE PKT
S112
DEMODULATE PKT
S122
S113
ANY ERROR?
YES
NO
S114
S115
GENERATE ACK SIGNAL
GENERATE NACK SIGNAL
S123
ANY ERROR?
YES
NO
S124
S125
GENERATE ACK SIGNAL
GENERATE NACK SIGNAL
S131
NOT LESS THAN n ACK?
NO
YES
S132
S133
GENERATE ACK (RNC) SIGNAL
GENERATE NACK (RNC) SIGNAL
FEEDBACK
S116
S126
TRANSMIT ACK/NACK TO MOBILE ST AND HOST ST
TRANSMIT ACK/NACK TO MOBILE ST AND HOST ST
TRANSMISSION
TRANSMIT ACK/NACK (RNC) TO BASE ST
S134
S102
NOT LESS THAN n ACK?
NO
YES
S103
S104
SET TRN PKT TO BE RE-TRN PKT
SET TRN PKT TO BE NEW PKT
RECEIVE ACK/NACK (RNC)
S117
RECEIVE ACK/NACK (RNC)
S127
S118
S105
RETURN TO S100
RETURN TO S110
RETURN TO S120
S128
RETURN TO S130
S135

FIG.10

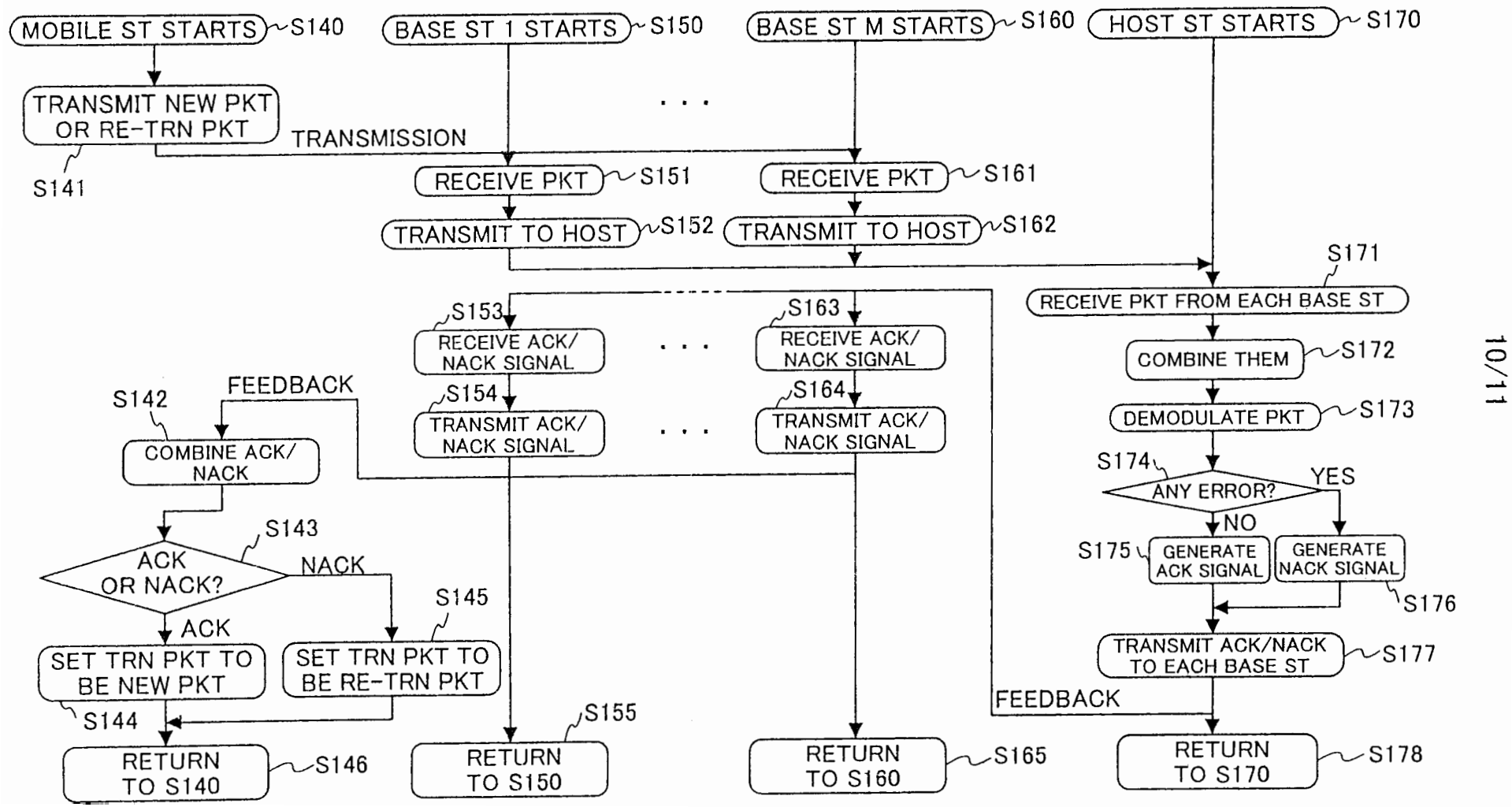
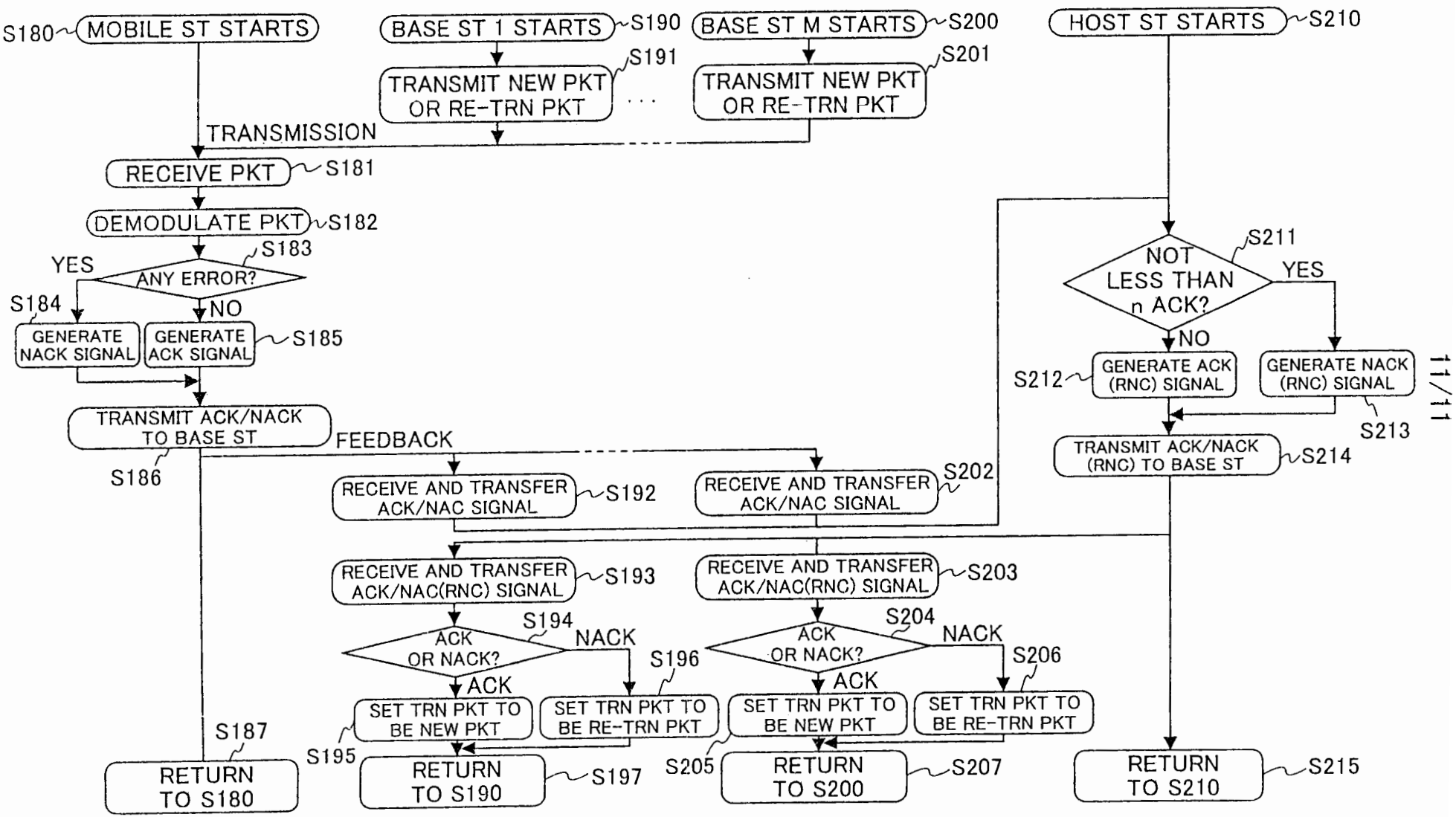

MOBILE ST STARTS
S140
BASE ST 1 STARTS
S150
BASE ST M STARTS
S160
HOST ST STARTS
S170
TRANSMIT NEW PKT OR RE-TRN PKT
S141
TRANSMISSION
RECEIVE PKT
S151
RECEIVE PKT
S161
TRANSMIT TO HOST
S152
TRANSMIT TO HOST
S162
S171
RECEIVE PKT FROM EACH BASE ST
S153
RECEIVE ACK/ NACK SIGNAL
S163
RECEIVE ACK/ NACK SIGNAL
COMBINE THEM
S172
S154
TRANSMIT ACK/ NACK SIGNAL
S164
TRANSMIT ACK/ NACK SIGNAL
DEMODULATE PKT
S173
S142
FEEDBACK
COMBINE ACK/ NACK
S174
ANY ERROR?
YES
NO
S143
ACK OR NACK?
NACK
S175
GENERATE ACK SIGNAL
GENERATE NACK SIGNAL
S176
ACK
S145
SET TRN PKT TO BE NEW PKT
SET TRN PKT TO BE RE-TRN PKT
TRANSMIT ACK/NACK TO EACH BASE ST
S177
FEEDBACK
S144
S155
RETURN TO S140
S146
RETURN TO S150
RETURN TO S160
S165
RETURN TO S170
S178

FIG.11


S180
MOBILE ST STARTS
BASE ST 1 STARTS
S190
BASE ST M STARTS
S200
HOST ST STARTS
S210
S191
TRANSMIT NEW PKT OR RE-TRN PKT
S201
TRANSMIT NEW PKT OR RE-TRN PKT
TRANSMISSION
RECEIVE PKT
S181
DEMODULATE PKT
S182
S183
YES
ANY ERROR?
NO
S184
GENERATE NACK SIGNAL
GENERATE ACK SIGNAL
S185
TRANSMIT ACK/NACK TO BASE ST
S186
FEEDBACK
RECEIVE AND TRANSFER ACK/NAC SIGNAL
S192
RECEIVE AND TRANSFER ACK/NAC SIGNAL
S202
RECEIVE AND TRANSFER ACK/NAC(RNC) SIGNAL
S193
RECEIVE AND TRANSFER ACK/NAC(RNC) SIGNAL
S203
S194
ACK OR NACK?
NACK
ACK
S204
ACK OR NACK?
NACK
ACK
S196
SET TRN PKT TO BE NEW PKT
SET TRN PKT TO BE RE-TRN PKT
SET TRN PKT TO BE NEW PKT
SET TRN PKT TO BE RE-TRN PKT
S206
S187
S195
RETURN TO S180
RETURN TO S190
S197
S205
RETURN TO S200
S207
S211
NOT LESS THAN n ACK?
YES
NO
S212
GENERATE ACK (RNC) SIGNAL
GENERATE NACK (RNC) SIGNAL
S213
TRANSMIT ACK/NACK (RNC) TO BASE ST
S214
RETURN TO S210
S215