FIG.1

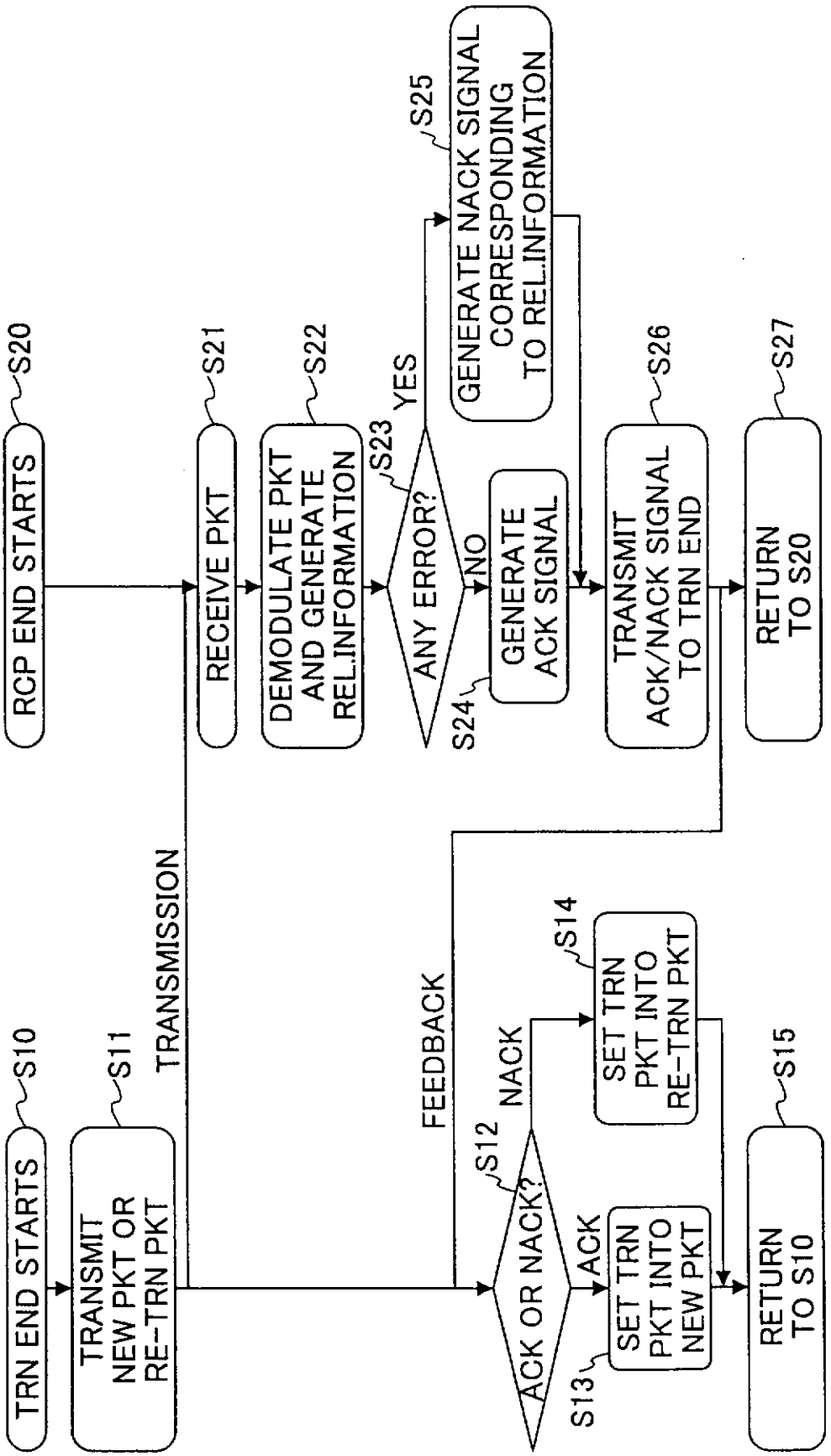

TRN END STARTS
S10
TRANSMIT NEW PKT OR RE-TRN PKT
S11
TRANSMISSION
RCP END STARTS
S20
RECEIVE PKT
S21
DEMODULATE PKT AND GENERATE REL.INFORMATION
S22
ANY ERROR?
S23
YES
NO
GENERATE NACK SIGNAL CORRESPONDING TO REL.INFORMATION
S25
GENERATE ACK SIGNAL
S24
TRANSMIT ACK/NACK SIGNAL TO TRN END
S26
RETURN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

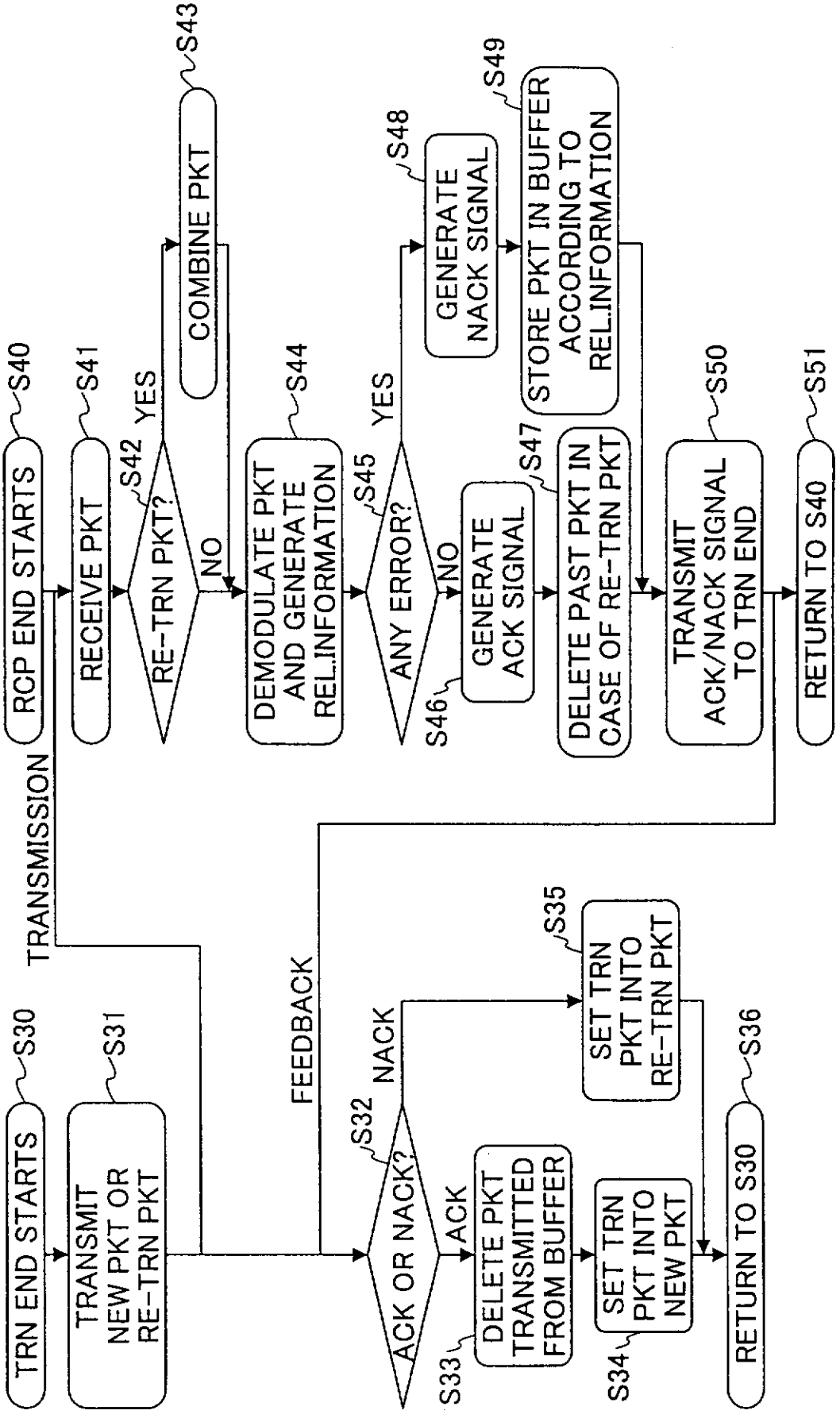

TRN END STARTS
S30
TRANSMIT NEW PKT OR RE-TRN PKT
S31
TRANSMISSION
RCP END STARTS
S40
RECEIVE PKT
S41
RE-TRN PKT?
S42
YES
NO
COMBINE PKT
S43
DEMODULATE PKT AND GENERATE REL.INFORMATION
S44
ANY ERROR?
S45
YES
NO
GENERATE ACK SIGNAL
S46
GENERATE NACK SIGNAL
S48
DELETE PAST PKT IN CASE OF RE-TRN PKT
S47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

FIG.3

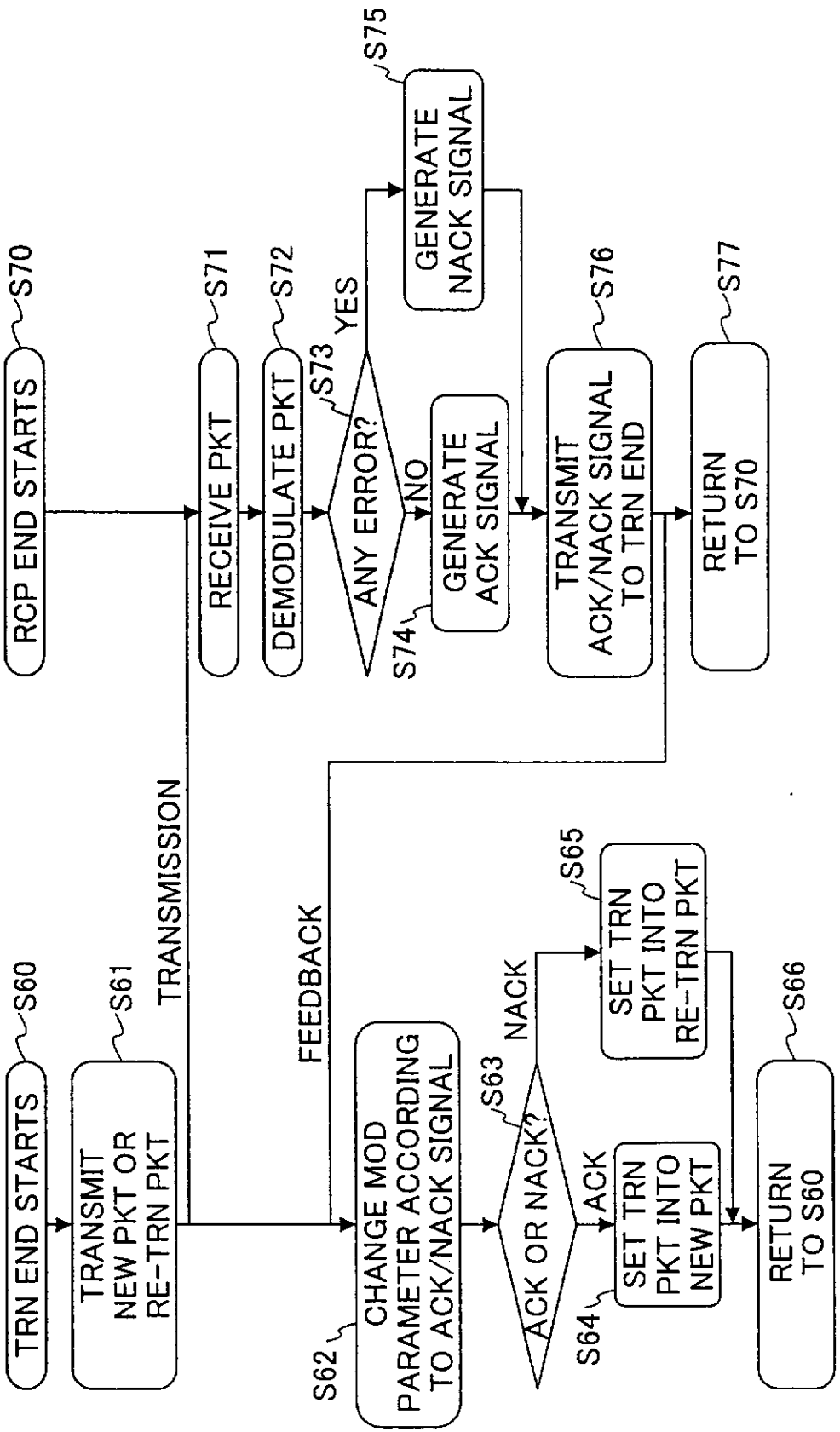

TRN END STARTS
S60
TRANSMIT NEW PKT OR RE-TRN PKT
S61
TRANSMISSION
RCP END STARTS
S70
RECEIVE PKT
S71
DEMODULATE PKT
S72
ANY ERROR?
S73
YES
NO
S74
GENERATE NACK SIGNAL
S75
GENERATE ACK SIGNAL
TRANSMIT ACK/NACK SIGNAL TO TRN END
S76
RETURN TO S70
S77
FEEDBACK
CHANGE MOD PARAMETER ACCORDING TO ACK/NACK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

FIG.4

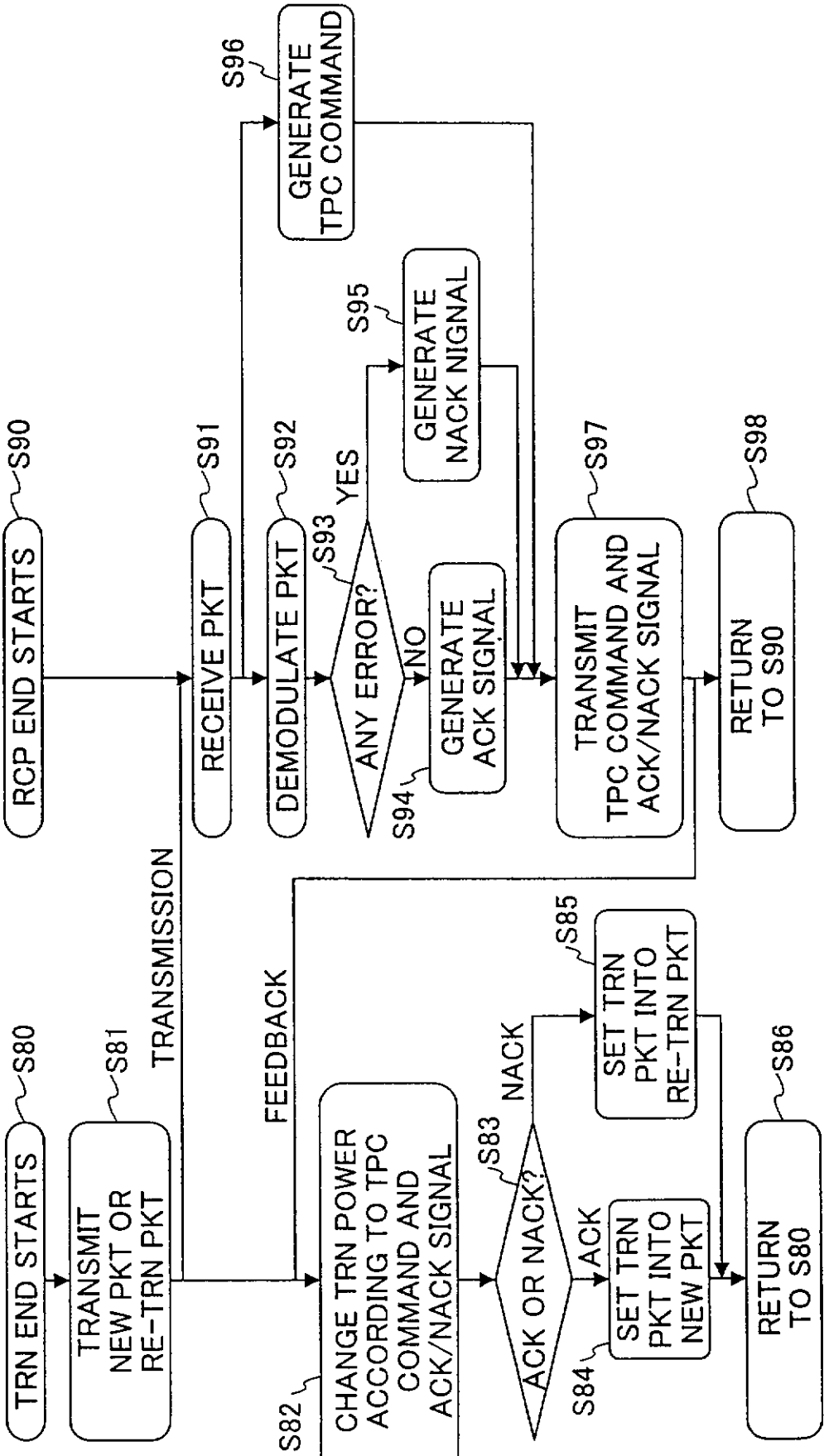

TRN END STARTS
S80
TRANSMIT NEW PKT OR RE-TRN PKT
S81
TRANSMISSION
RCP END STARTS
S90
RECEIVE PKT
S91
DEMODULATE PKT
S92
ANY ERROR?
S93
YES
NO
S94
GENERATE NACK NIGNAL
S95
GENERATE TPC COMMAND
S96
GENERATE ACK SIGNAL
TRANSMIT TPC COMMAND AND ACK/NACK SIGNAL
S97
RETURN TO S90
S98
FEEDBACK
CHANGE TRN POWER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

FIG.5

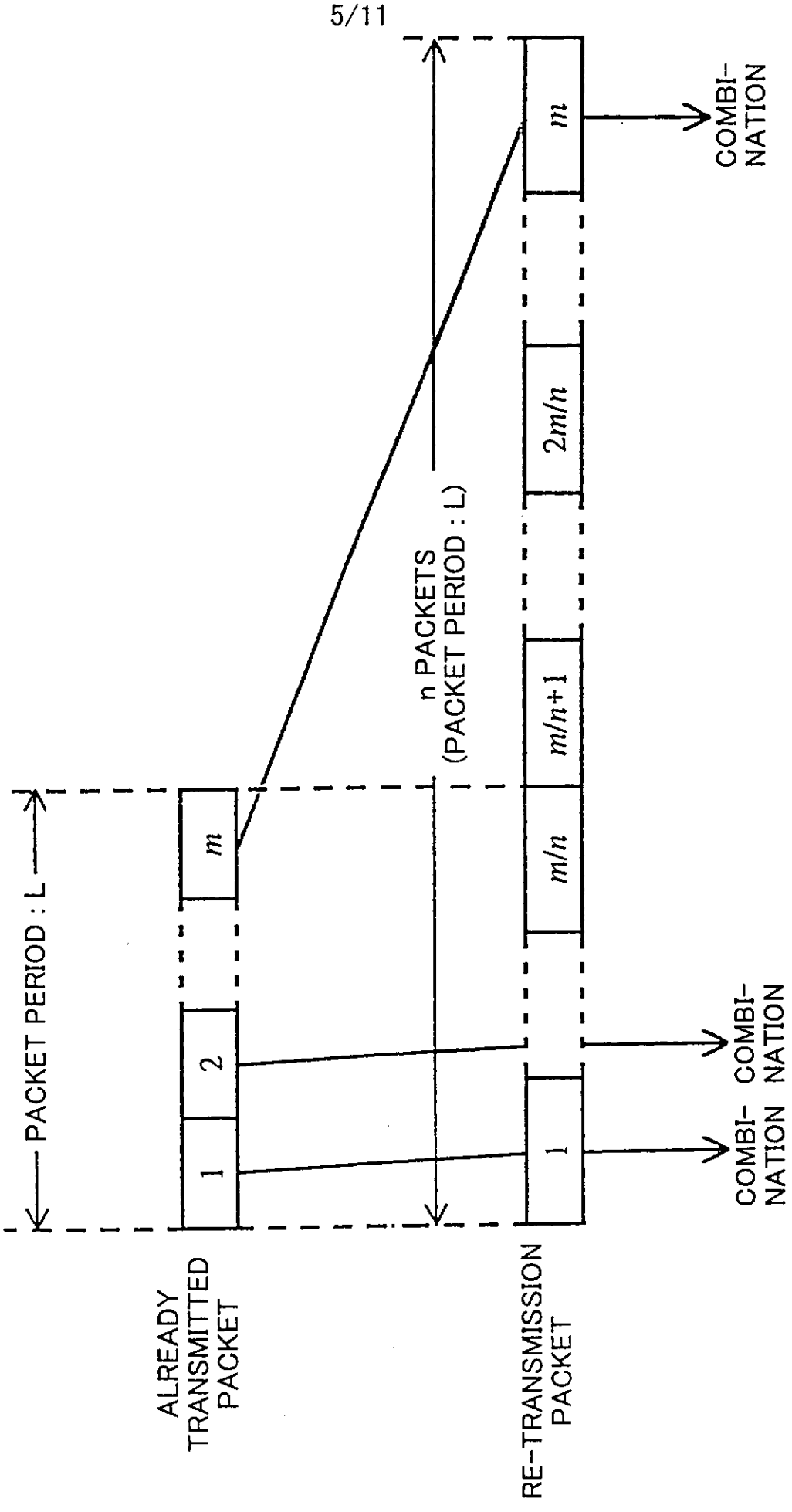

PACKET PERIOD : L
n PACKETS
(PACKET PERIOD : L)
ALREADY TRANSMITTED PACKET
RE-TRANSMISSION PACKET
COMBI-NATION
COMBI-NATION
COMBI-NATION
m
1
2
m/n
m/n+1
2m/n
m
1

FIG.6

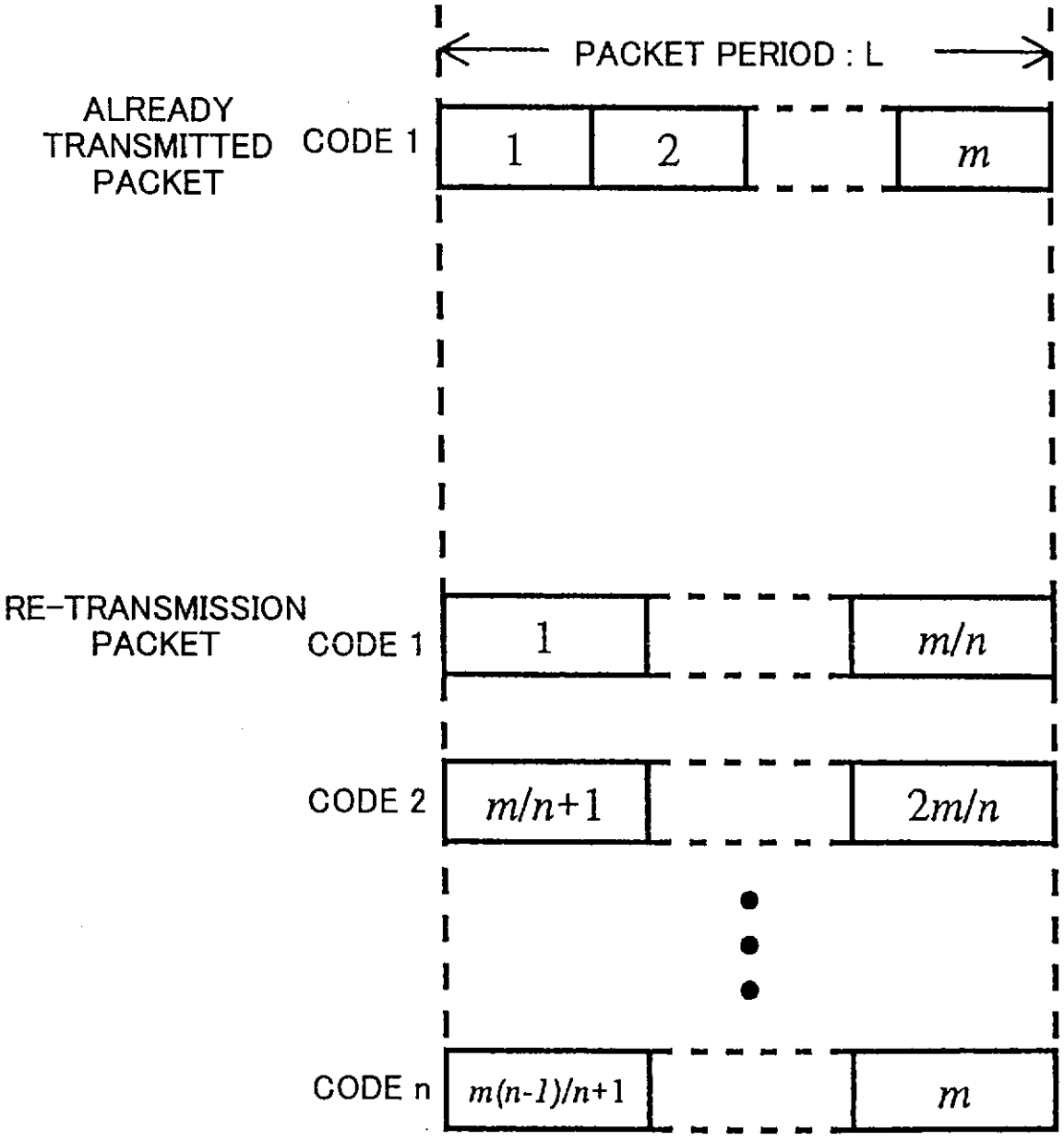

PACKET PERIOD : L
ALREADY TRANSMITTED PACKET
CODE 1
1
2
m
RE-TRANSMISSION PACKET
CODE 1
1
m/n
CODE 2
m/n+1
2m/n
CODE n
m(n-1)/n+1
m

FIG.7

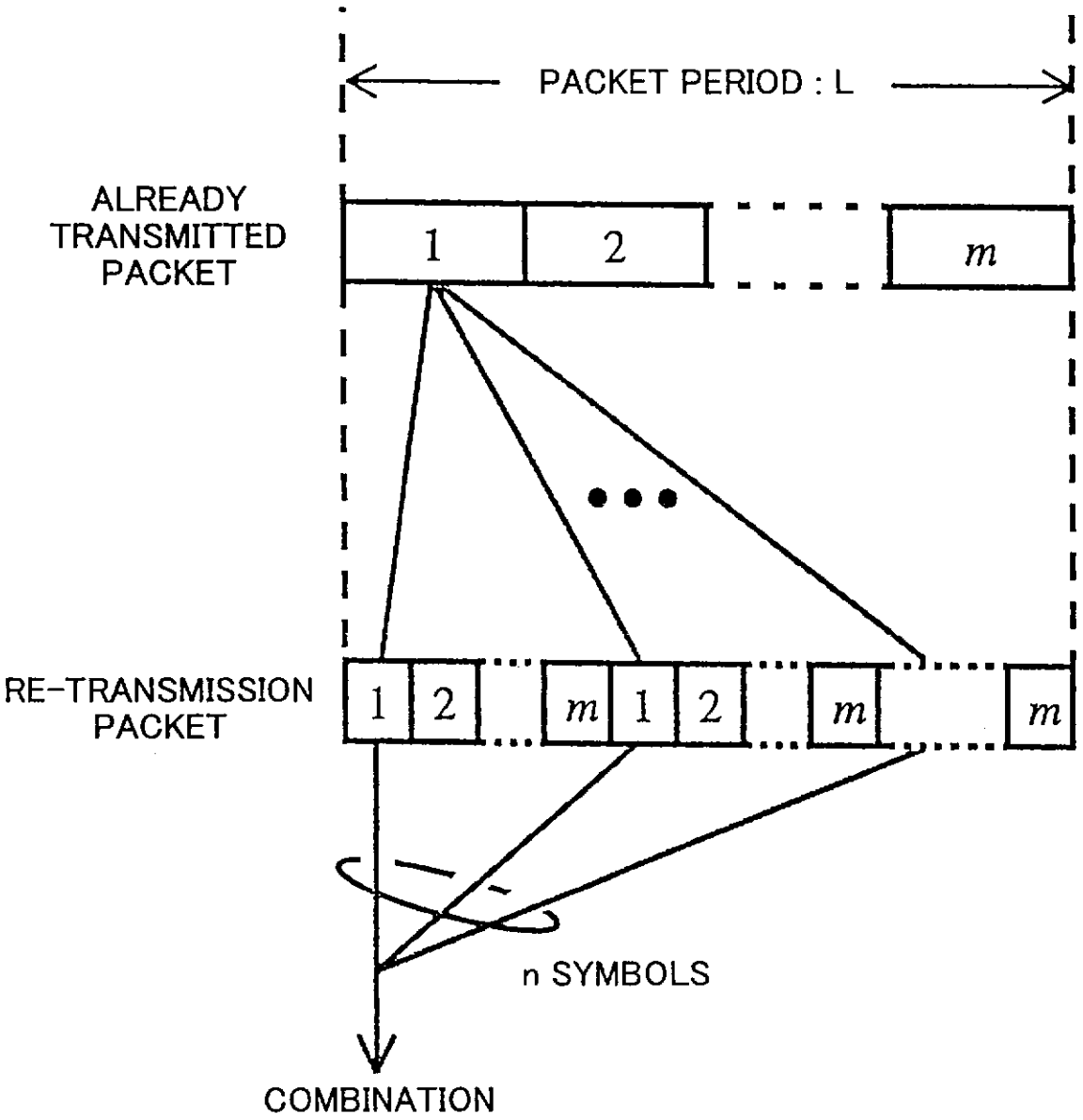

PACKET PERIOD : L
ALREADY TRANSMITTED PACKET
1
2
m
RE-TRANSMISSION PACKET
1
2
m
1
2
m
m
n SYMBOLS
COMBINATION

FIG.8

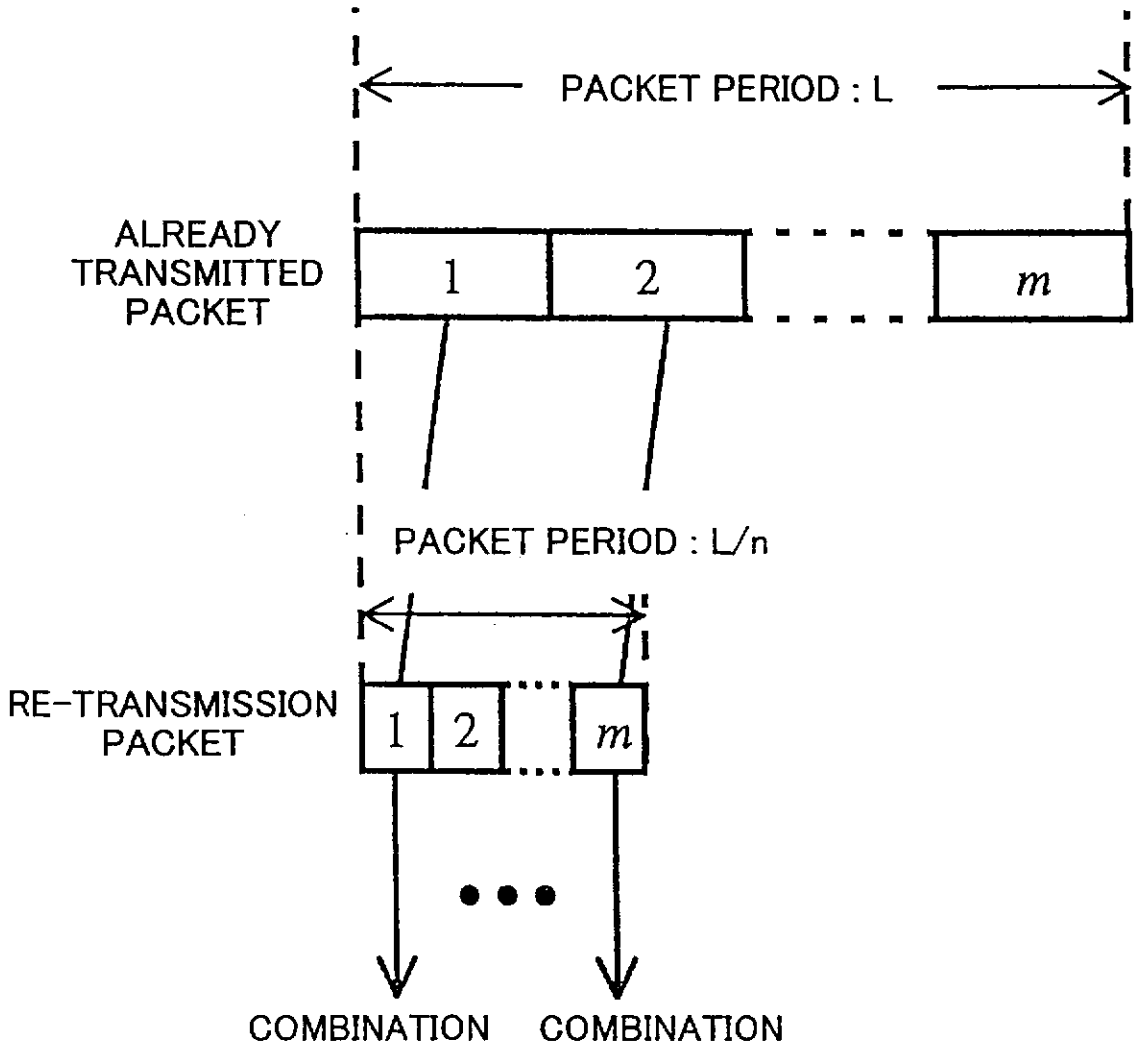

PACKET PERIOD : L
ALREADY TRANSMITTED PACKET
1
2
m
PACKET PERIOD : L/n
RE-TRANSMISSION PACKET
1
2
m
COMBINATION
COMBINATION

FIG.9

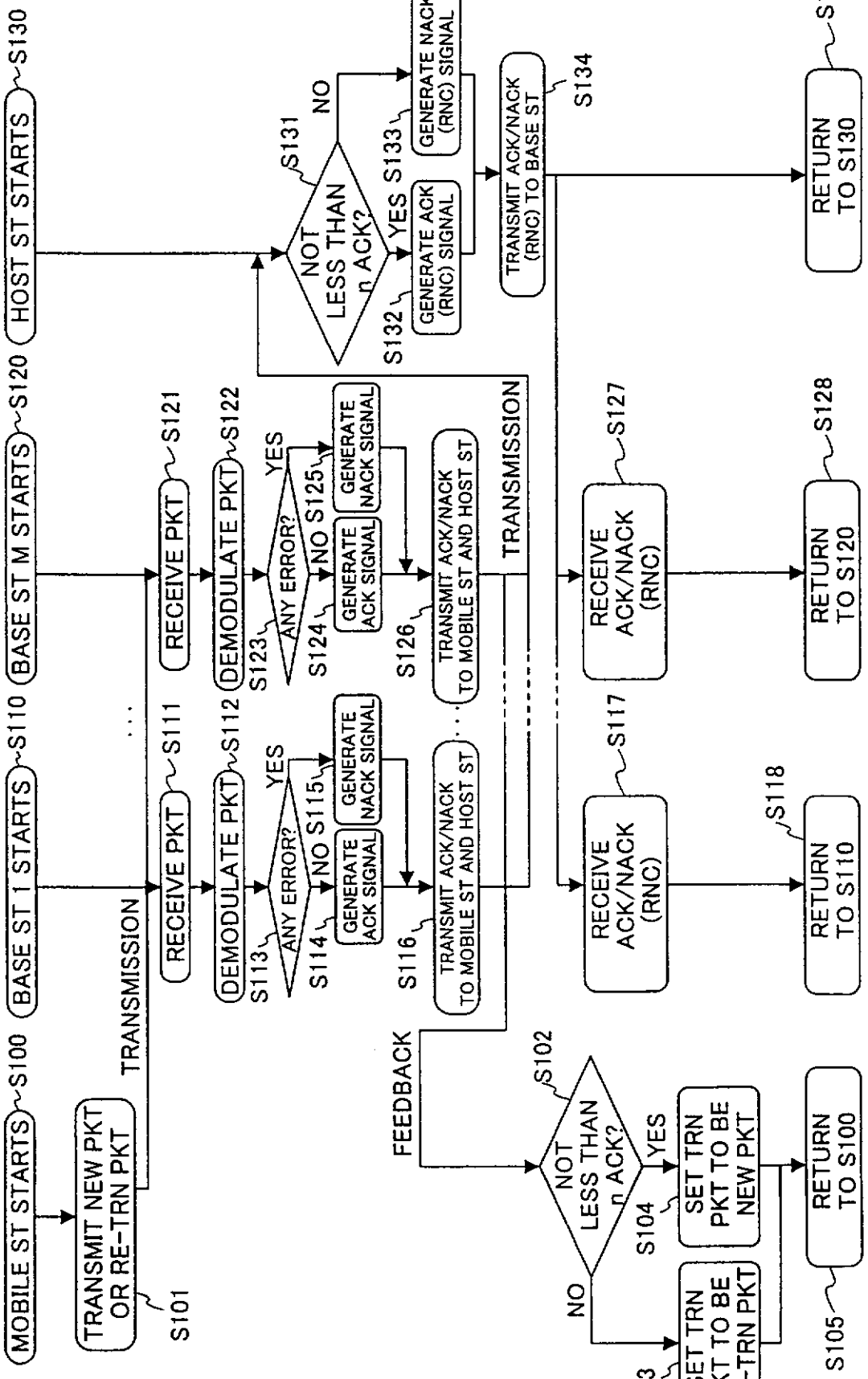

MOBILE ST STARTS
S100
TRANSMIT NEW PKT OR RE-TRN PKT
S101
TRANSMISSION
BASE ST 1 STARTS
S110
RECEIVE PKT
S111
DEMODULATE PKT
S112
ANY ERROR?
S113
YES
NO
S114
GENERATE ACK SIGNAL
GENERATE NACK SIGNAL
S115
TRANSMIT ACK/NACK TO MOBILE ST AND HOST ST
S116
FEEDBACK
NOT LESS THAN n ACK?
S102
YES
NO
S104
SET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

FIG.10

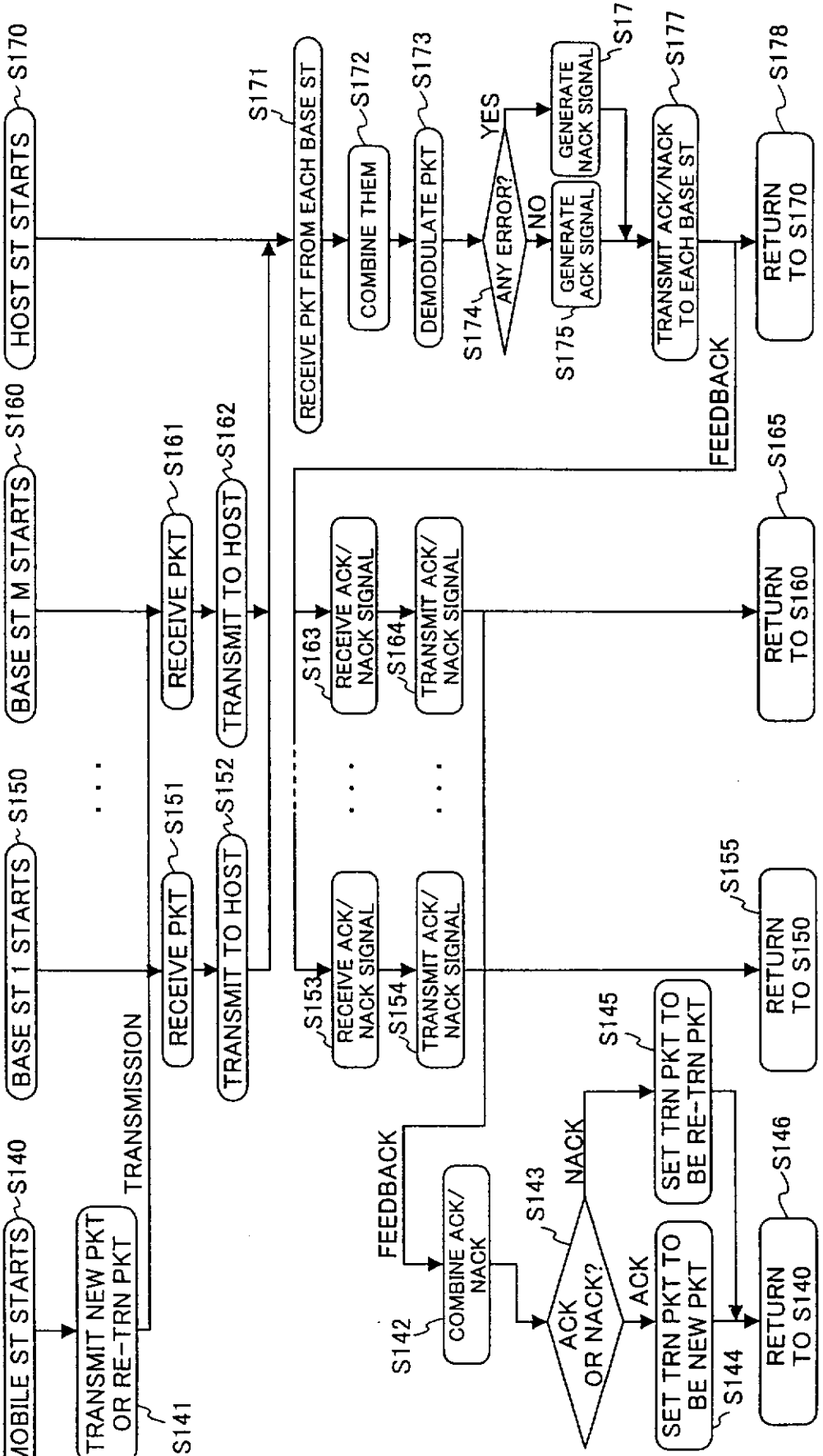
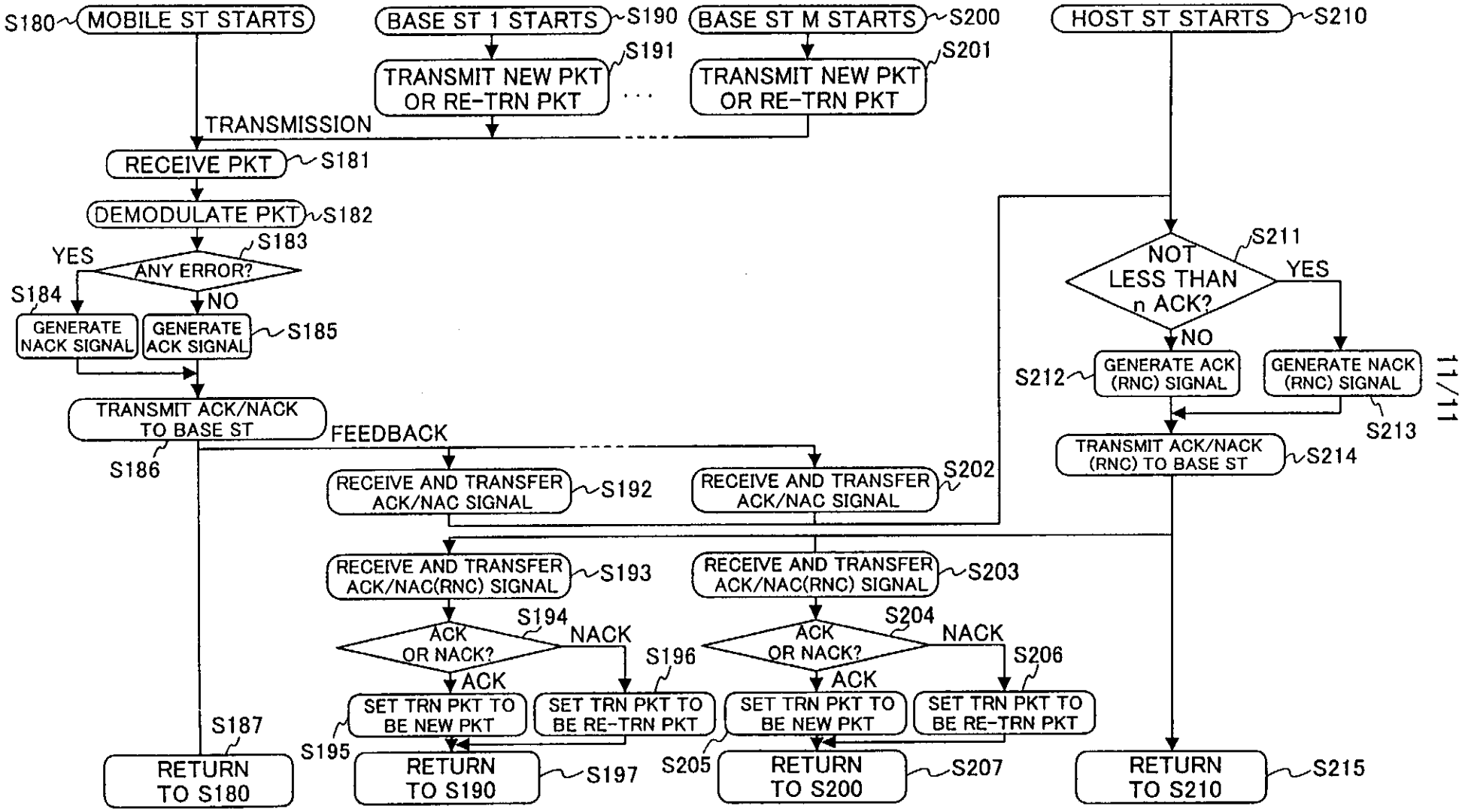

MOBILE ST STARTS
S140
TRANSMIT NEW PKT OR RE-TRN PKT
S141
TRANSMISSION
BASE ST 1 STARTS
S150
RECEIVE PKT
S151
TRANSMIT TO HOST
S152
BASE ST M STARTS
S160
RECEIVE PKT
S161
TRANSMIT TO HOST
S162
HOST ST STARTS
S170
S171
RECEIVE PKT FROM EACH BASE ST
COMBINE THEM
S172
DEMODULATE PKT
S173
ANY ERROR?
S174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

FIG.11



24 DEC 2004