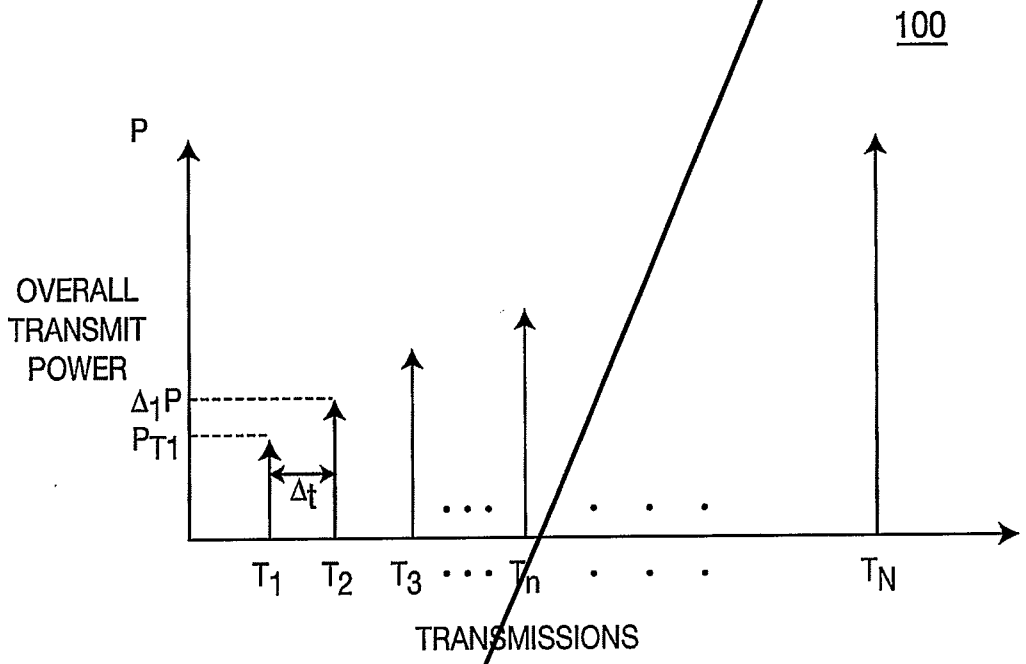


FIG. 1
PRIOR ART

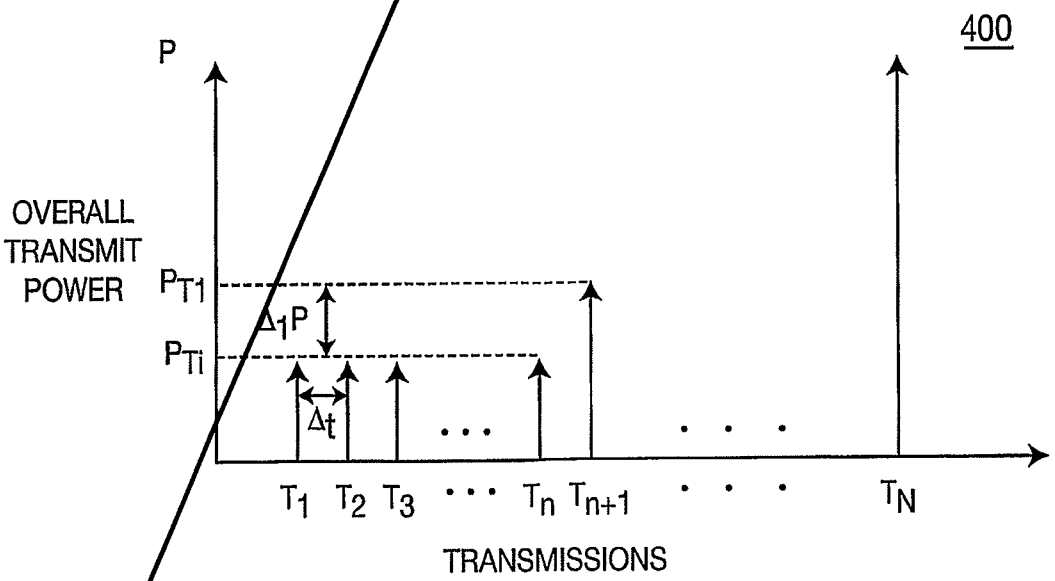


FIG. 4

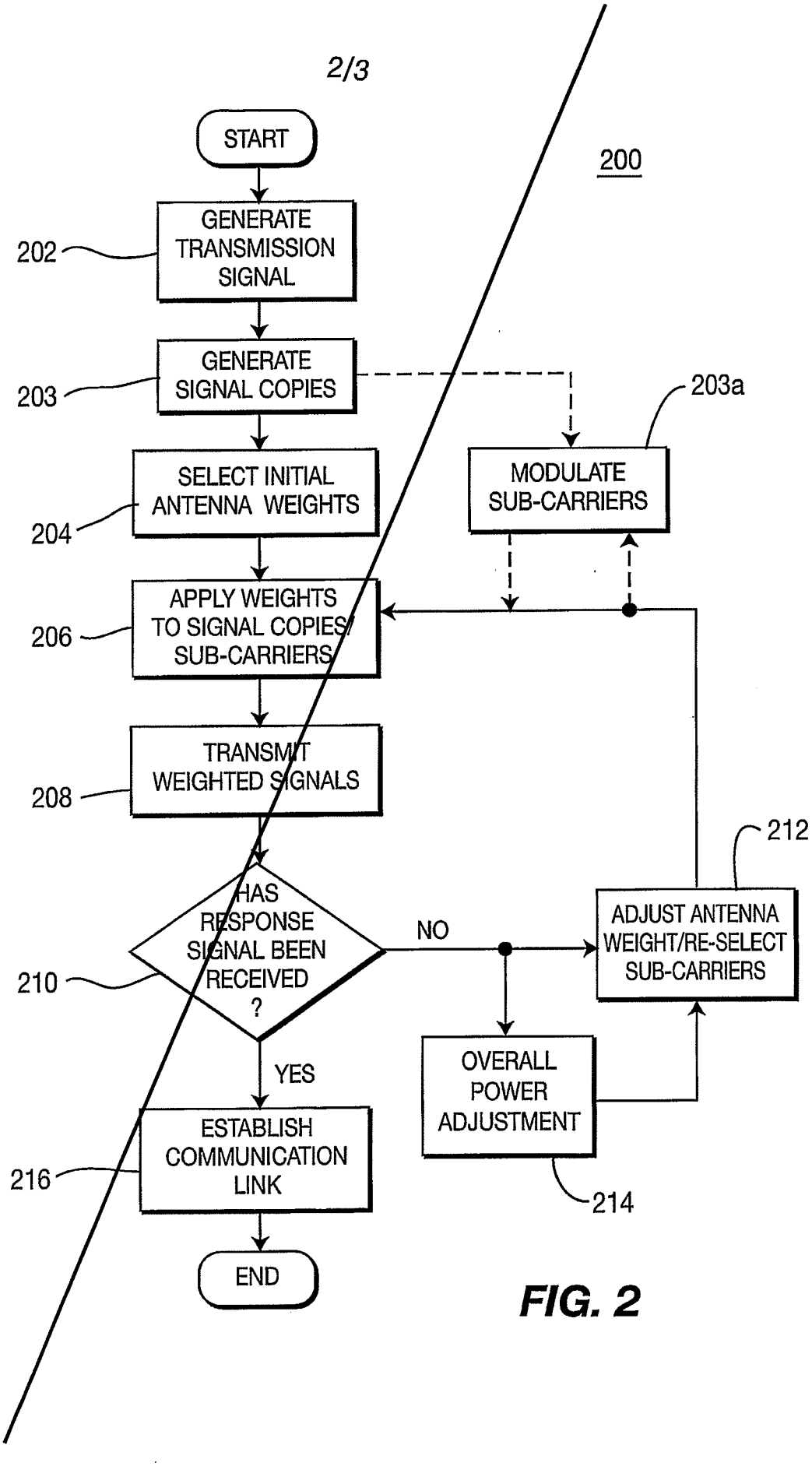

200
START
202
GENERATE TRANSMISSION SIGNAL
203
GENERATE SIGNAL COPIES
203a
MODULATE SUB-CARRIERS
204
SELECT INITIAL ANTENNA WEIGHTS
206
APPLY WEIGHTS TO SIGNAL COPIES/ SUB-CARRIERS
208
TRANSMIT WEIGHTED SIGNALS
210
HAS RESPONSE SIGNAL BEEN RECEIVED ?
NO
YES
212
ADJUST ANTENNA WEIGHT/RE-SELECT SUB-CARRIERS
214
OVERALL POWER ADJUSTMENT
216
ESTABLISH COMMUNICATION LINK
END

FIG. 2

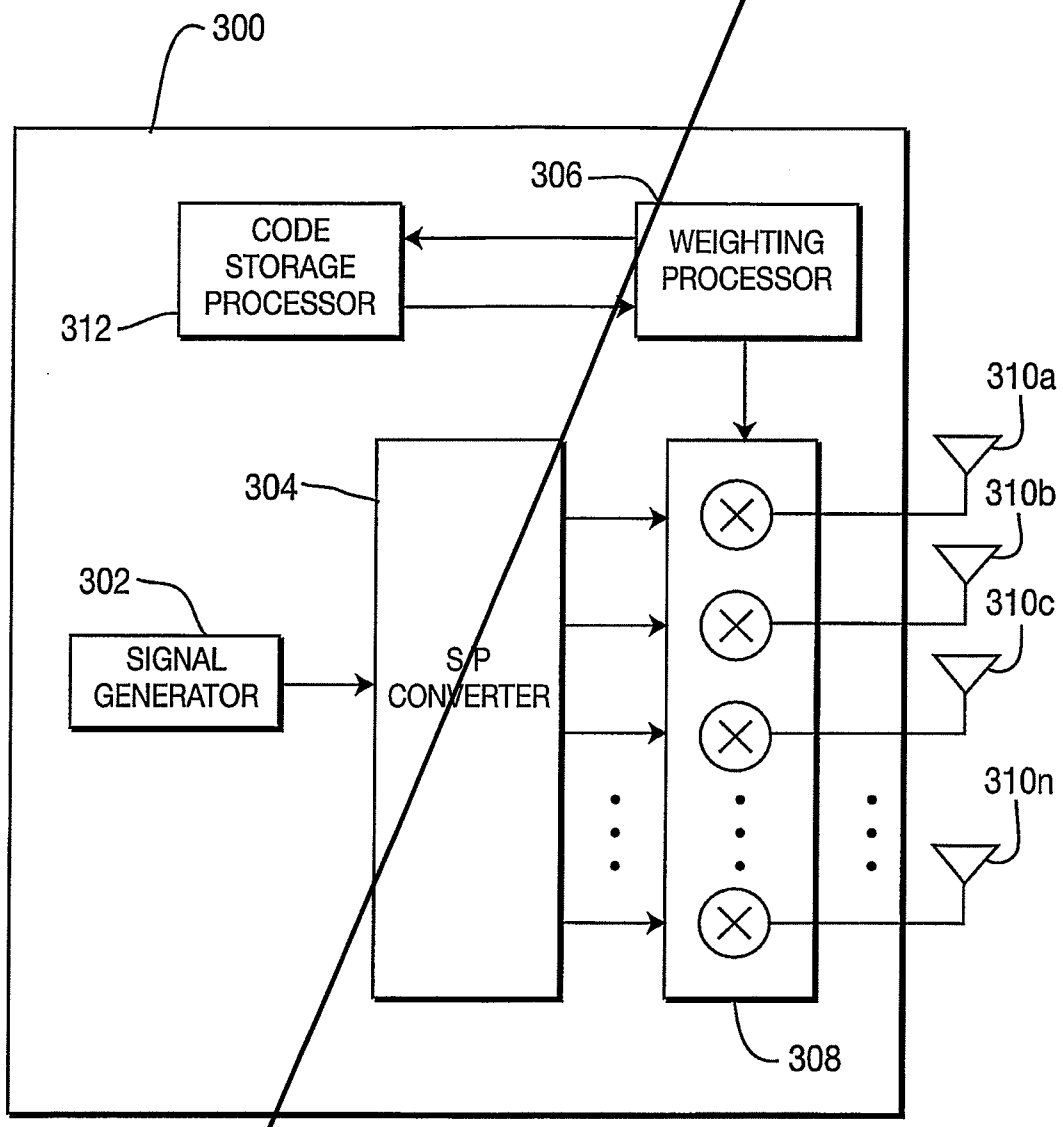

300
306
CODE STORAGE PROCESSOR
WEIGHTING PROCESSOR
312
310a
310b
310c
310n
304
302
SIGNAL GENERATOR
S/P CONVERTER
308

FIG. 3

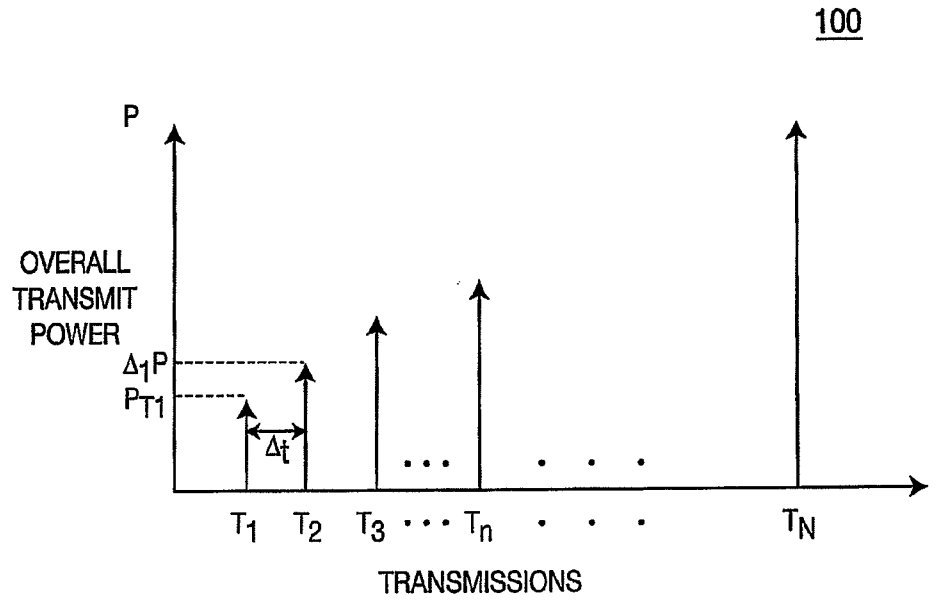


FIG. 1
PRIOR ART

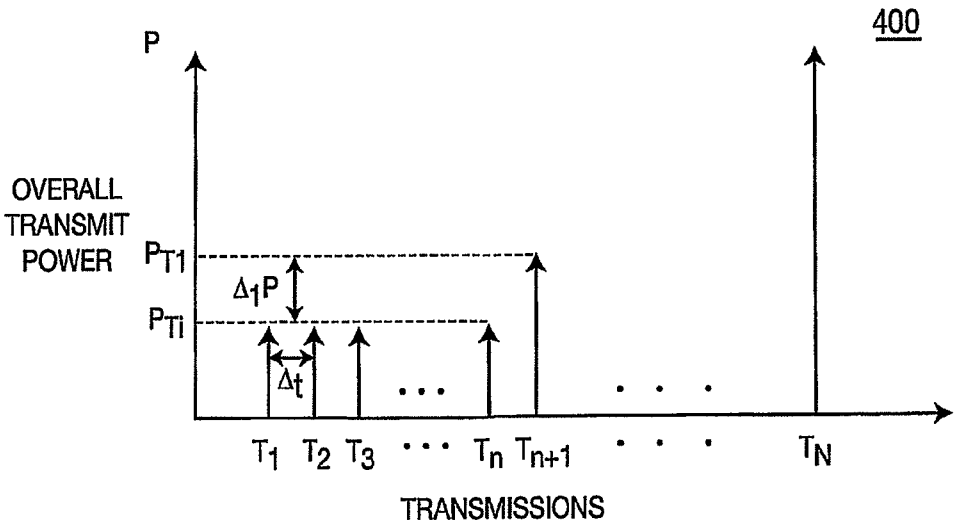


FIG. 4

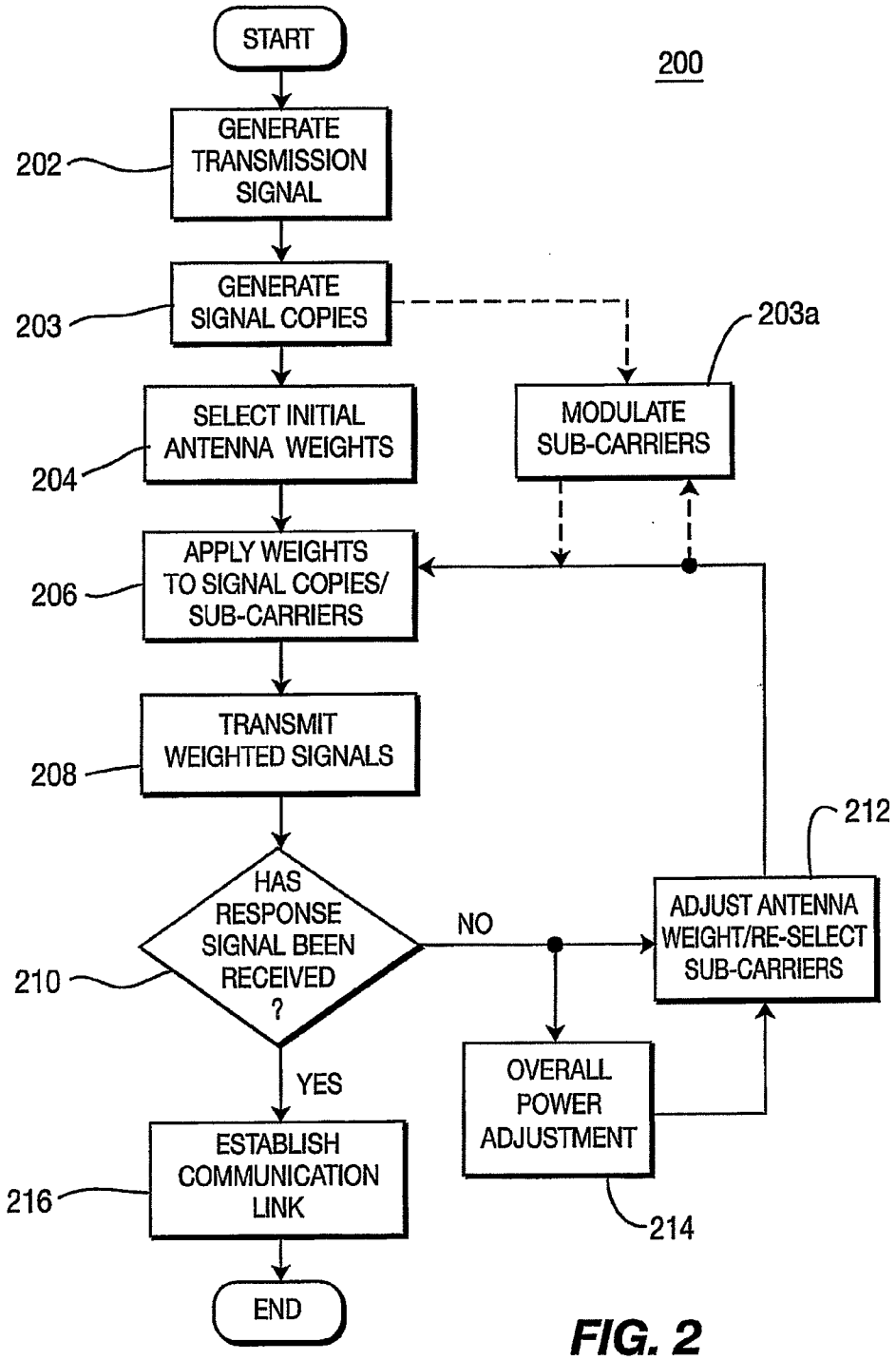

START
200
GENERATE TRANSMISSION SIGNAL
202
GENERATE SIGNAL COPIES
203
203a
MODULATE SUB-CARRIERS
SELECT INITIAL ANTENNA WEIGHTS
204
APPLY WEIGHTS TO SIGNAL COPIES/ SUB-CARRIERS
206
TRANSMIT WEIGHTED SIGNALS
208
212
HAS RESPONSE SIGNAL BEEN RECEIVED ?
210
NO
ADJUST ANTENNA WEIGHT/RE-SELECT SUB-CARRIERS
YES
OVERALL POWER ADJUSTMENT
214
ESTABLISH COMMUNICATION LINK
216
END

FIG. 2

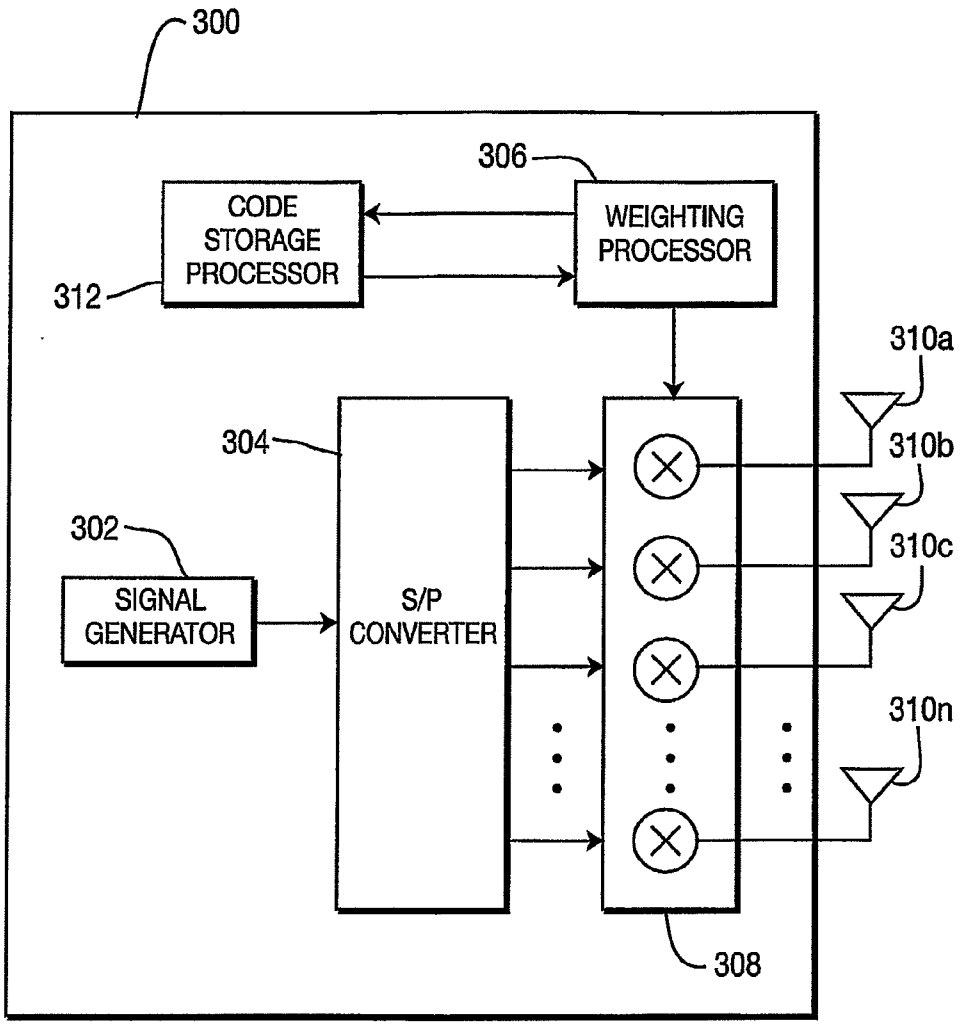

300
306
CODE STORAGE PROCESSOR
WEIGHTING PROCESSOR
312
310a
310b
310c
310n
304
302
SIGNAL GENERATOR
S/P CONVERTER
308

FIG. 3