FIG 1

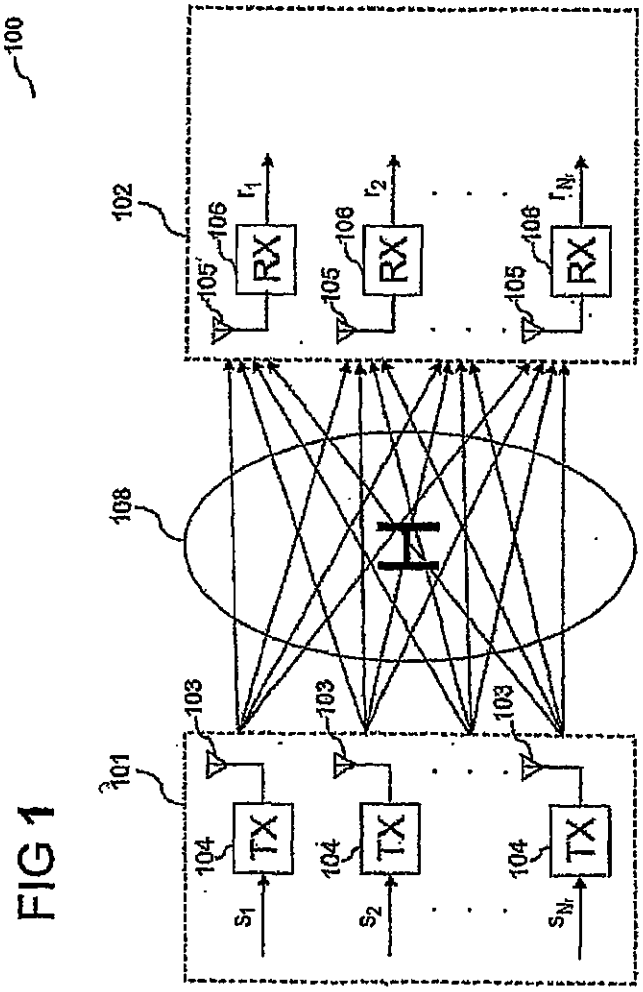
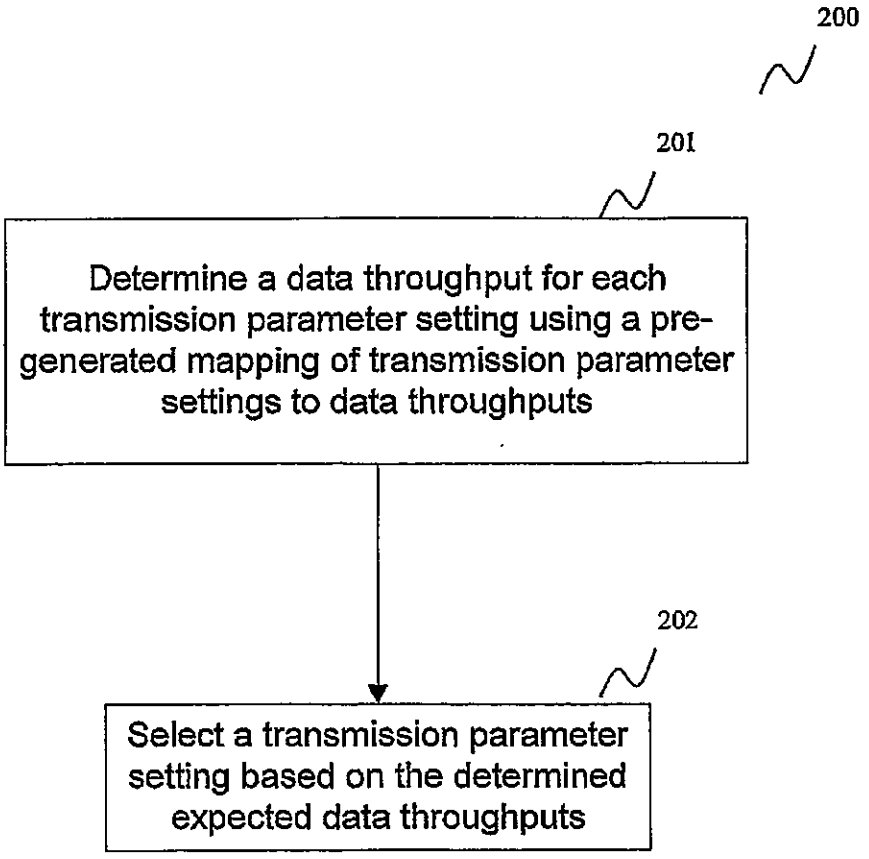


FIG 2


200
201
Determine a data throughput for each transmission parameter setting using a pre-generated mapping of transmission parameter settings to data throughputs
202
Select a transmission parameter setting based on the determined expected data throughputs

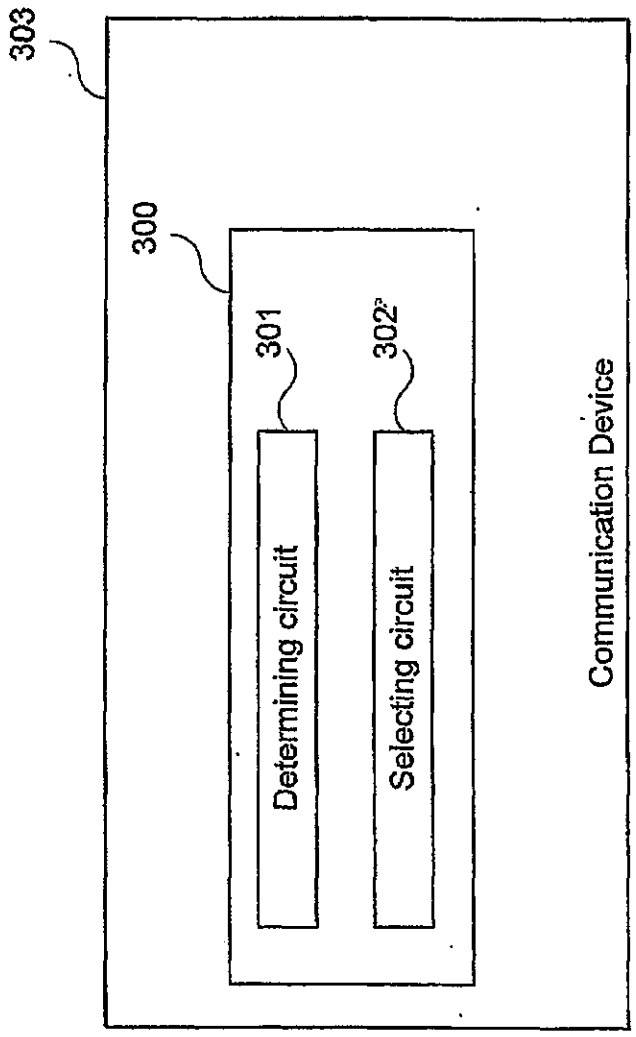

303
300
301
Determining circuit
302'
Selecting circuit
Communication Device

FIG 3

FIG 4

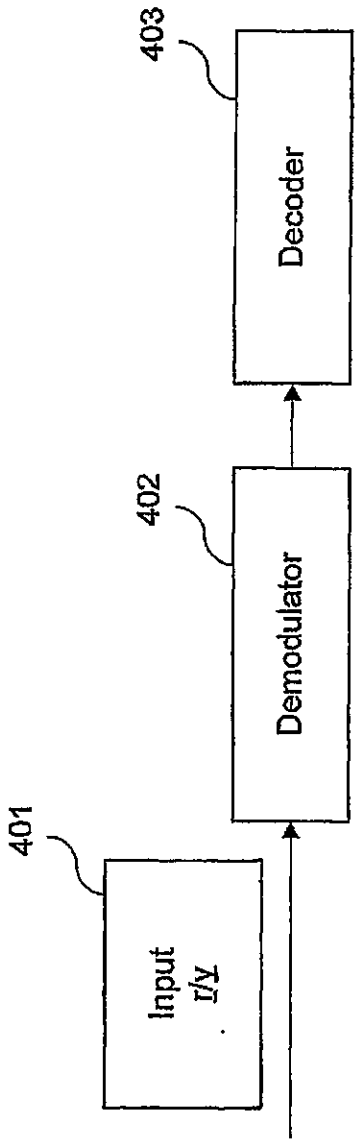


FIG 5

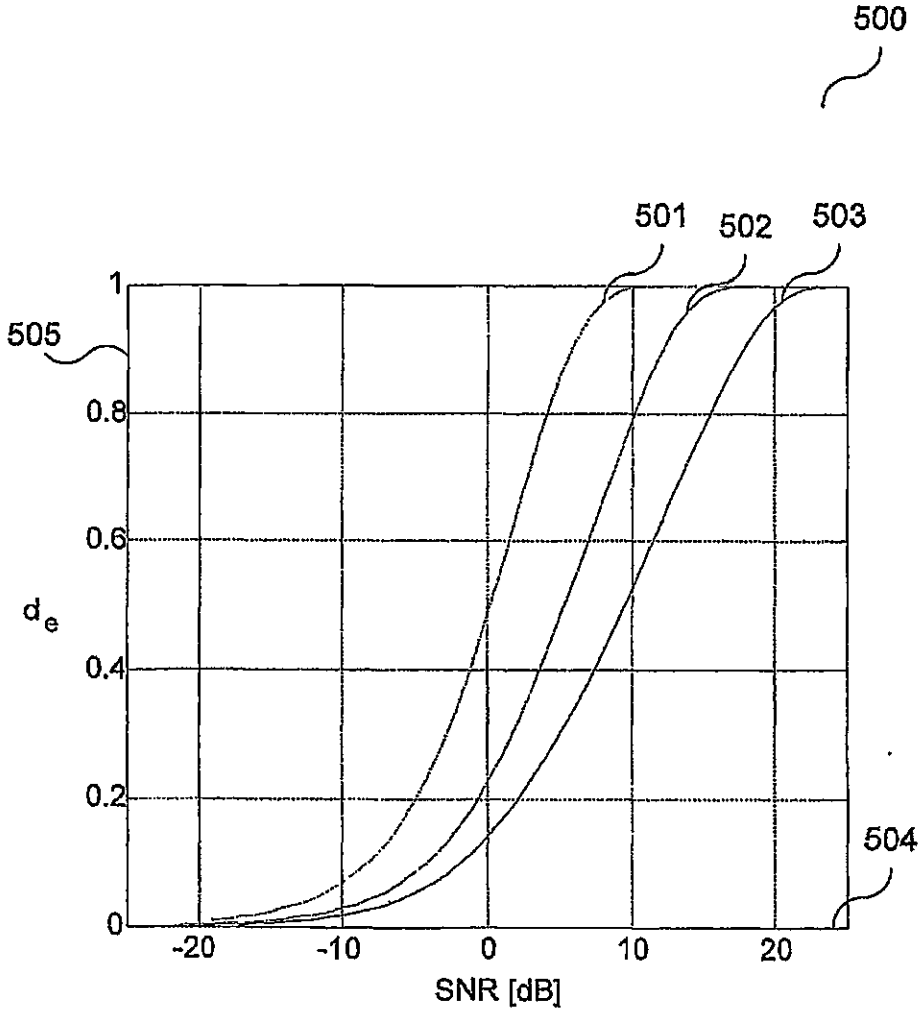


FIG 6

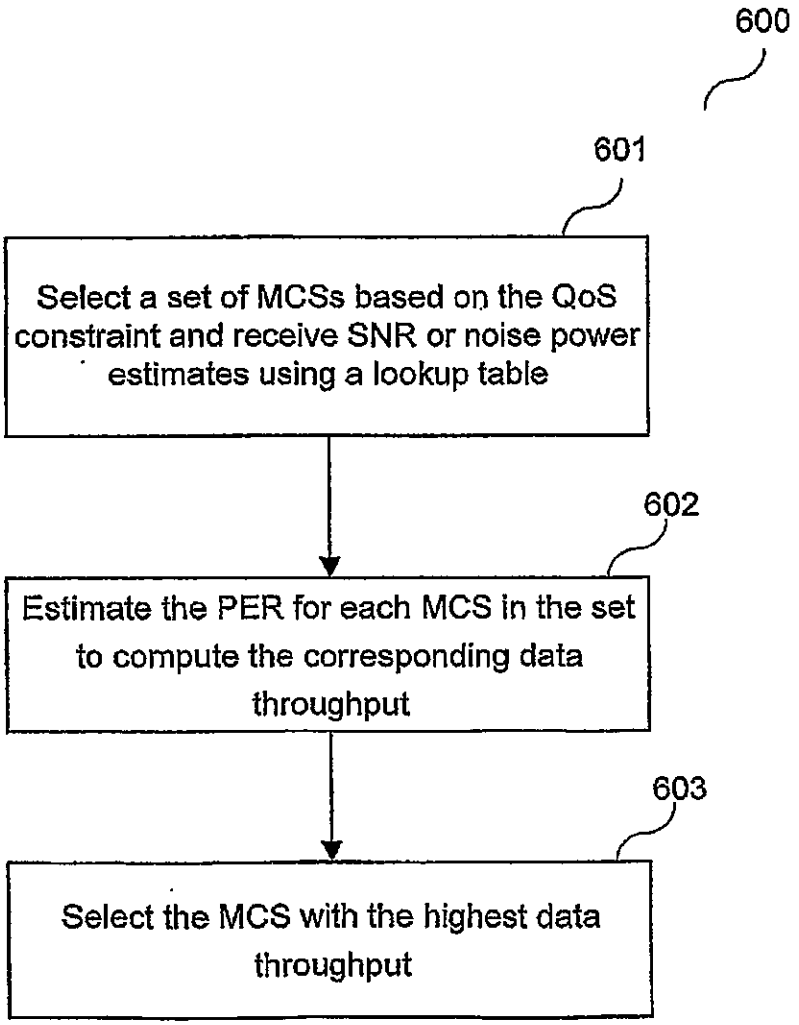

600
601
Select a set of MCSs based on the QoS constraint and receive SNR or noise power estimates using a lookup table
602
Estimate the PER for each MCS in the set to compute the corresponding data throughput
603
Select the MCS with the highest data throughput

FIG 7

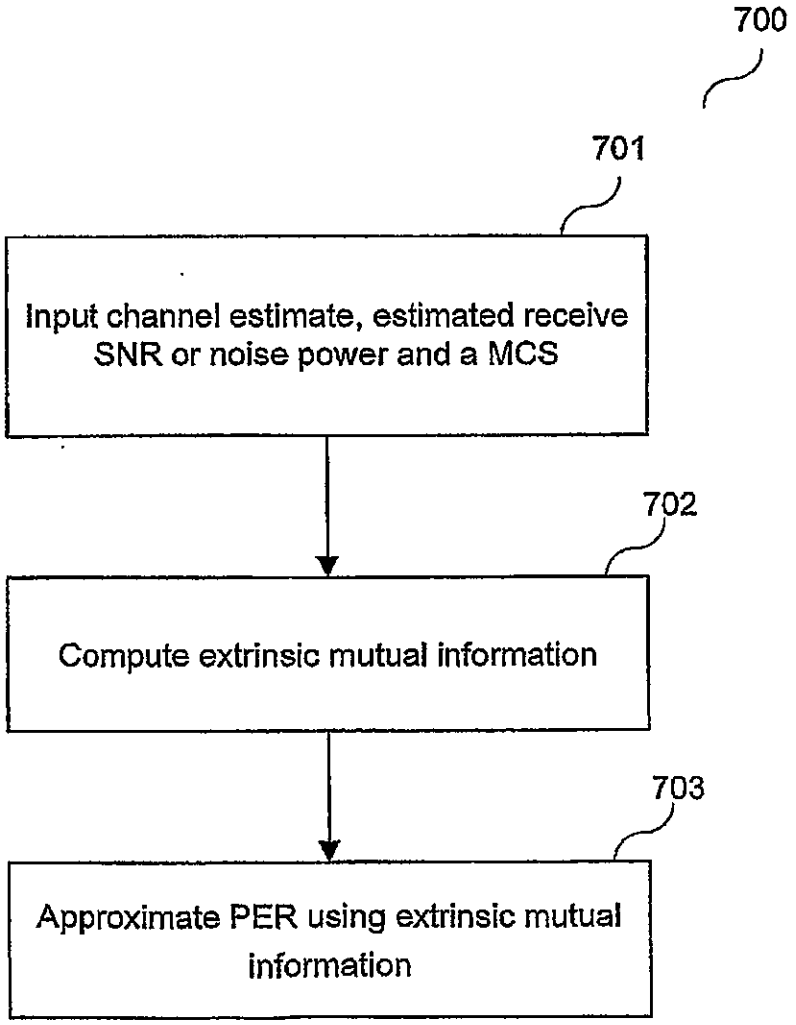

700
701
Input channel estimate, estimated receive SNR or noise power and a MCS
702
Compute extrinsic mutual information
703
Approximate PER using extrinsic mutual information

FIG 8

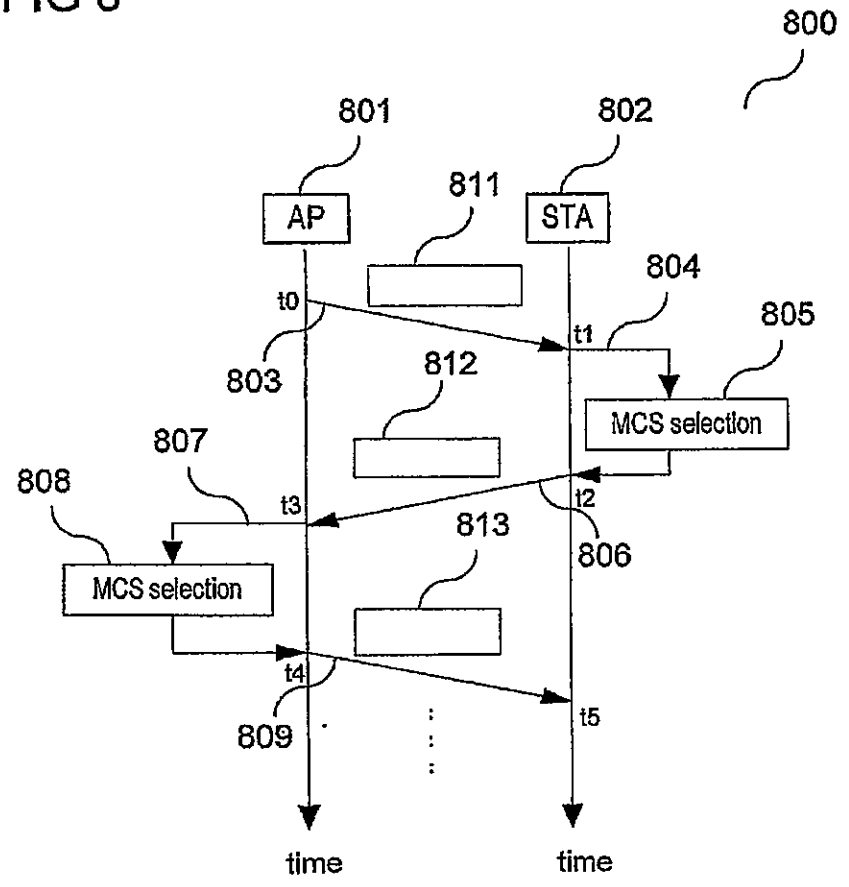

800
801
802
AP
STA
811
804
805
t0
t1
803
812
MCS selection
807
808
t3
t2
813
806
MCS selection
t4
t5
809
time
time

FIG 9

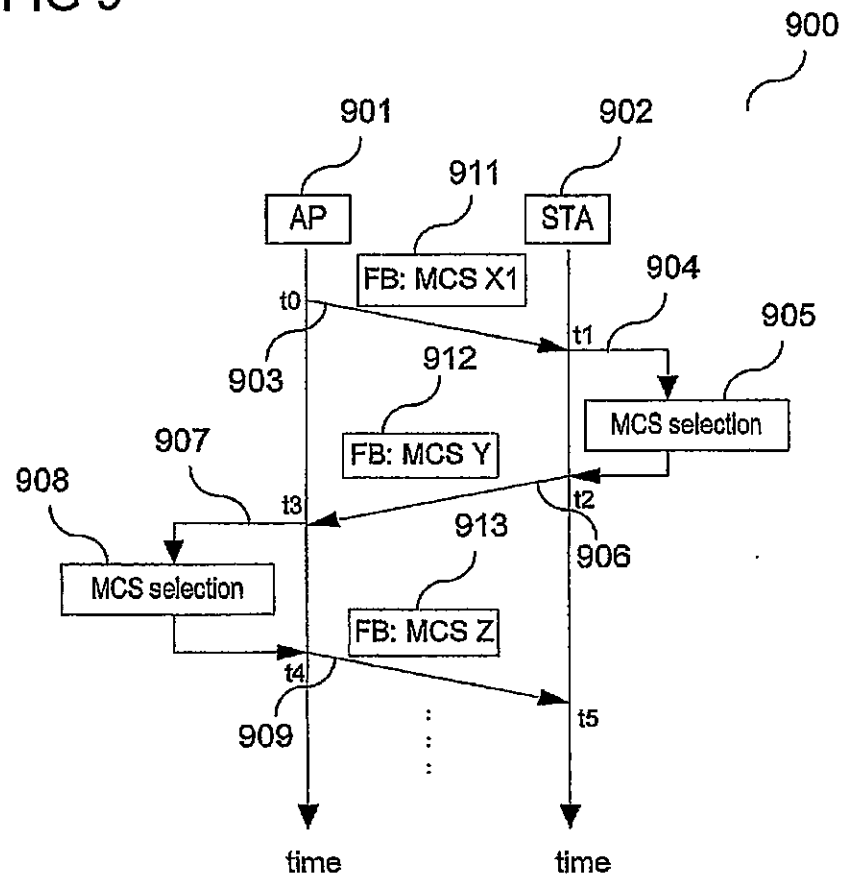
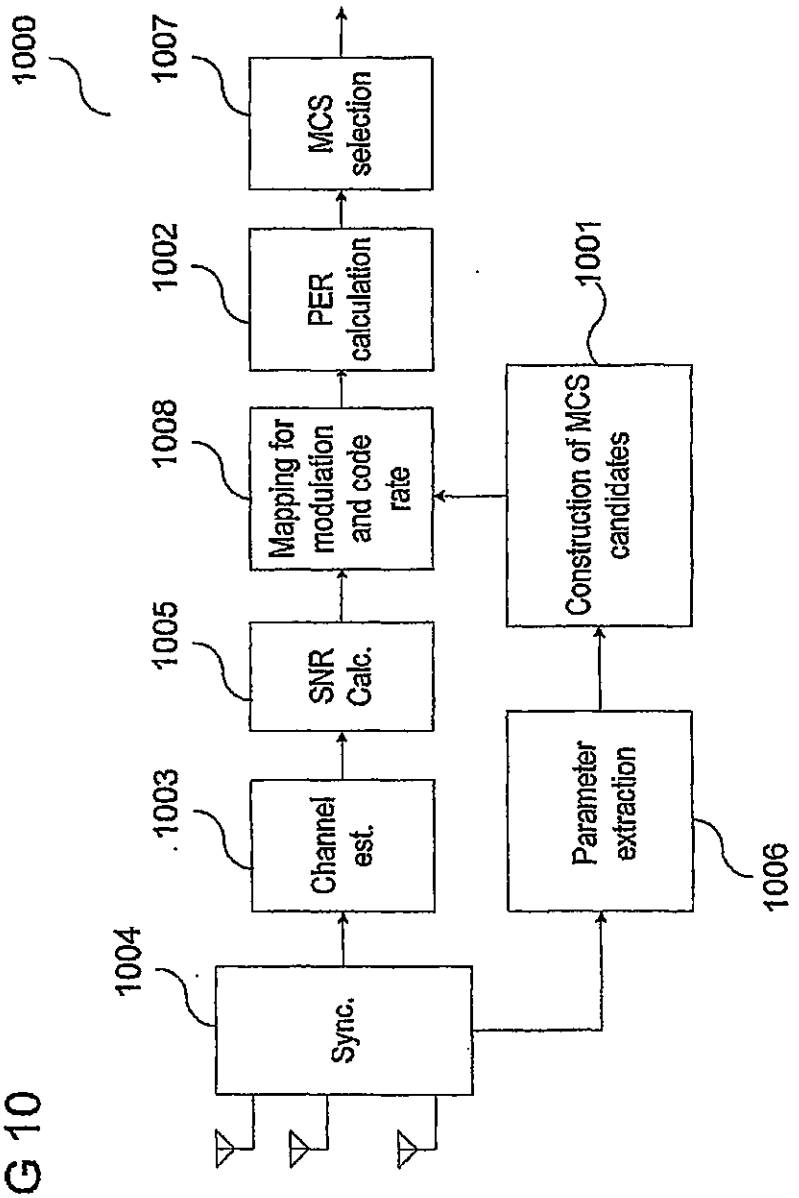

900
901
902
911
AP
STA
FB: MCS X1
904
t0
t1
905
903
912
MCS selection
907
FB: MCS Y
908
t3
t2
913
906
MCS selection
FB: MCS Z
t4
t5
909
time
time

FIG 10


1000
1004
Sync.
1003
Channel est.
1005
SNR Calc.
1008
Mapping for modulation and code rate
1002
PER calculation
1007
MCS selection
1006
Parameter extraction
1001
Construction of MCS candidates