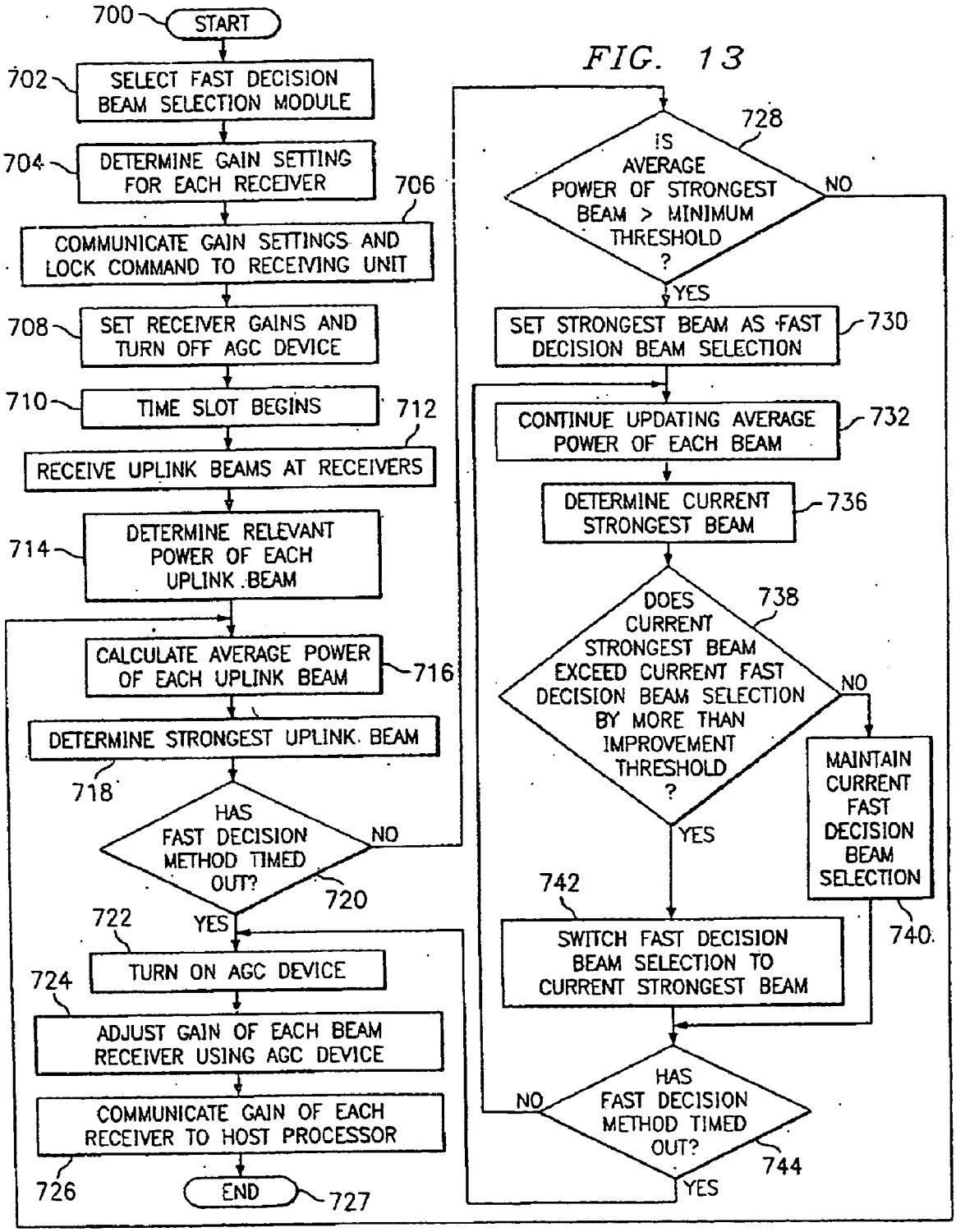
FIG. 13
700
START
702
SELECT FAST DECISION BEAM SELECTION MODULE
704
DETERMINE GAIN SETTING FOR EACH RECEIVER
706
COMMUNICATE GAIN SETTINGS AND LOCK COMMAND TO RECEIVING UNIT
708
SET RECEIVER GAINS AND TURN OFF AGC DEVICE
710
TIME SLOT BEGINS
712
RECEIVE UPLINK BEAMS AT RECEIVERS
714
DETERMINE RELEVANT POWER OF EACH UPLINK BEAM
716
CALCULATE AVERAGE POWER OF EACH UPLINK BEAM
718
DETERMINE STRONGEST UPLINK BEAM
720
HAS FAST DECISION METHOD TIMED OUT?
NO
YES
722
TURN ON AGC DEVICE
724
ADJUST GAIN OF EACH BEAM RECEIVER USING AGC DEVICE
726
COMMUNICATE GAIN OF EACH RECEIVER TO HOST PROCESSOR
727
END
728
IS AVERAGE POWER OF STRONGEST BEAM > MINIMUM THRESHOLD ?
NO
YES
730
SET STRONGEST BEAM AS FAST DECISION BEAM SELECTION
732
CONTINUE UPDATING AVERAGE POWER OF EACH BEAM
736
DETERMINE CURRENT STRONGEST BEAM
738
DOES CURRENT STRONGEST BEAM EXCEED CURRENT FAST DECISION BEAM SELECTION BY MORE THAN IMPROVEMENT THRESHOLD ?
NO
YES
740
MAINTAIN CURRENT FAST DECISION BEAM SELECTION
742
SWITCH FAST DECISION BEAM SELECTION TO CURRENT STRONGEST BEAM
744
HAS FAST DECISION METHOD TIMED OUT?
NO
YES