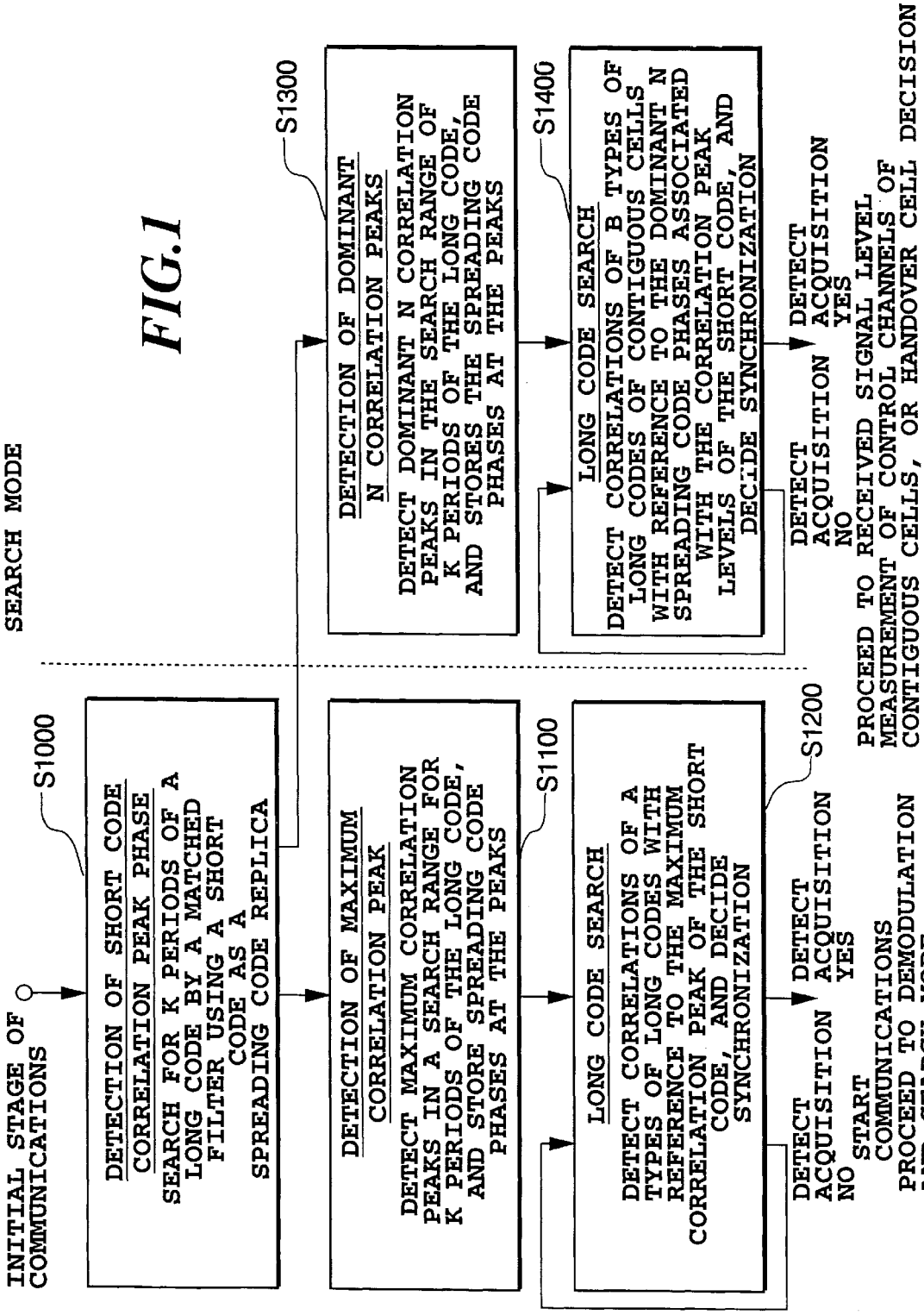
SEARCH MODE
INITIAL STAGE OF COMMUNICATIONS
S1000
DETECTION OF SHORT CODE CORRELATION PEAK PHASE
SEARCH FOR K PERIODS OF A LONG CODE BY A MATCHED FILTER USING A SHORT CODE AS A SPREADING CODE REPLICA
S1300
DETECTION OF DOMINANT N CORRELATION PEAKS
DETECT DOMINANT N CORRELATION PEAKS IN THE SEARCH RANGE OF K PERIODS OF THE LONG CODE, AND STORES THE SPREADING CODE PHASES AT THE PEAKS
S1400
LONG CODE SEARCH
DETECT CORRELATIONS OF B TYPES OF LONG CODES OF CONTIGUOUS CELLS WITH REFERENCE TO THE DOMINANT N SPREADING CODE PHASES ASSOCIATED WITH THE CORRELATION PEAK LEVELS OF THE SHORT CODE, AND DECIDE SYNCHRONIZATION
DETECT ACQUISITION
YES
NO
DETECT ACQUISITION
YES
NO
PROCEED TO RECEIVED SIGNAL LEVEL MEASUREMENT OF CONTROL CHANNELS OF CONTIGUOUS CELLS, OR HANDOVER CELL DECISION
DETECTION OF MAXIMUM CORRELATION PEAK
DETECT MAXIMUM CORRELATION PEAKS IN A SEARCH RANGE FOR K PERIODS OF THE LONG CODE, AND STORE SPREADING CODE PHASES AT THE PEAKS
S1100
LONG CODE SEARCH
DETECT CORRELATIONS OF A TYPES OF LONG CODES WITH REFERENCE TO THE MAXIMUM CORRELATION PEAK OF THE SHORT CODE, AND DECIDE SYNCHRONIZATION
S1200
DETECT ACQUISITION
YES
NO
DETECT ACQUISITION
YES
NO
START COMMUNICATIONS
PROCEED TO DEMODULATION AND SEARCH MODE

FIG.1