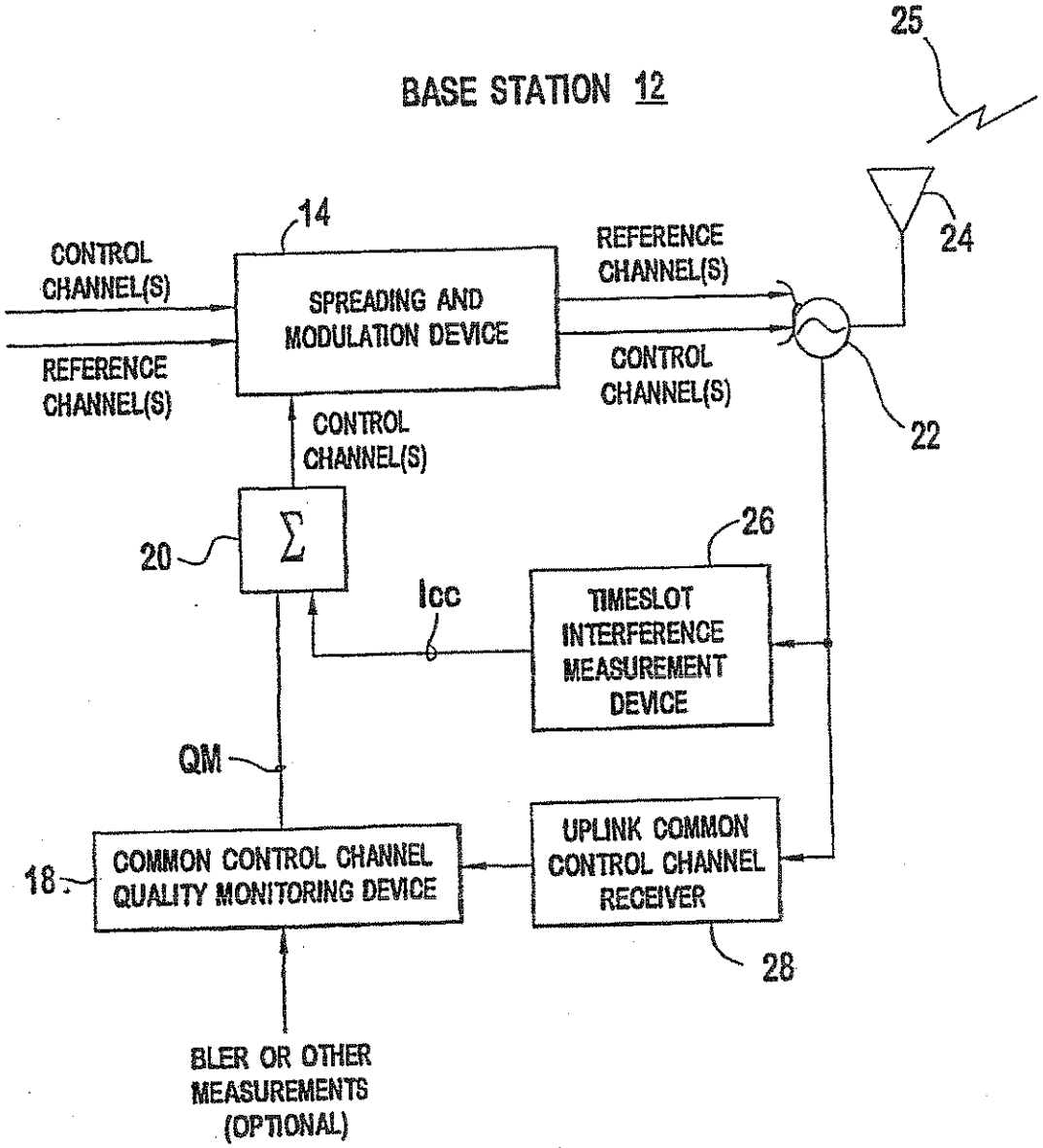

BASE STATION 12
25
24
22
14
CONTROL CHANNEL(S)
REFERENCE CHANNEL(S)
SPREADING AND MODULATION DEVICE
REFERENCE CHANNEL(S)
CONTROL CHANNEL(S)
CONTROL CHANNEL(S)
20
Σ
26
Icc
TIMESLOT INTERFERENCE MEASUREMENT DEVICE
QM
18
COMMON CONTROL CHANNEL QUALITY MONITORING DEVICE
UPLINK COMMON CONTROL CHANNEL RECEIVER
28
BLER OR OTHER MEASUREMENTS (OPTIONAL)

FIG. 1A

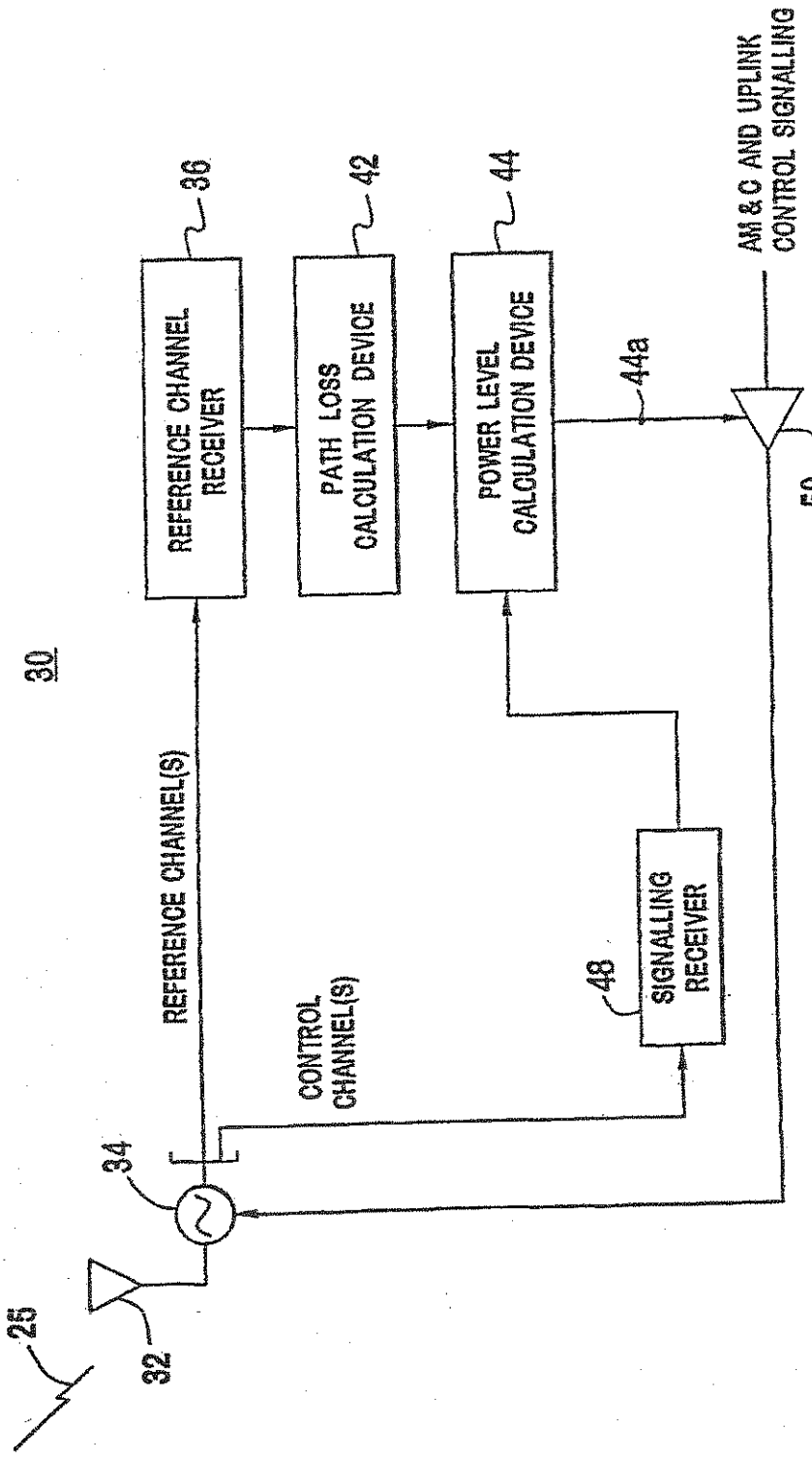

30
REFERENCE CHANNEL RECEIVER
36
PATH LOSS CALCULATION DEVICE
42
POWER LEVEL CALCULATION DEVICE
44
44a
AM & C AND UPLINK CONTROL SIGNALLING
50
REFERENCE CHANNEL(S)
CONTROL CHANNEL(S)
SIGNALLING RECEIVER
48
34
32
25

FIG. 1B

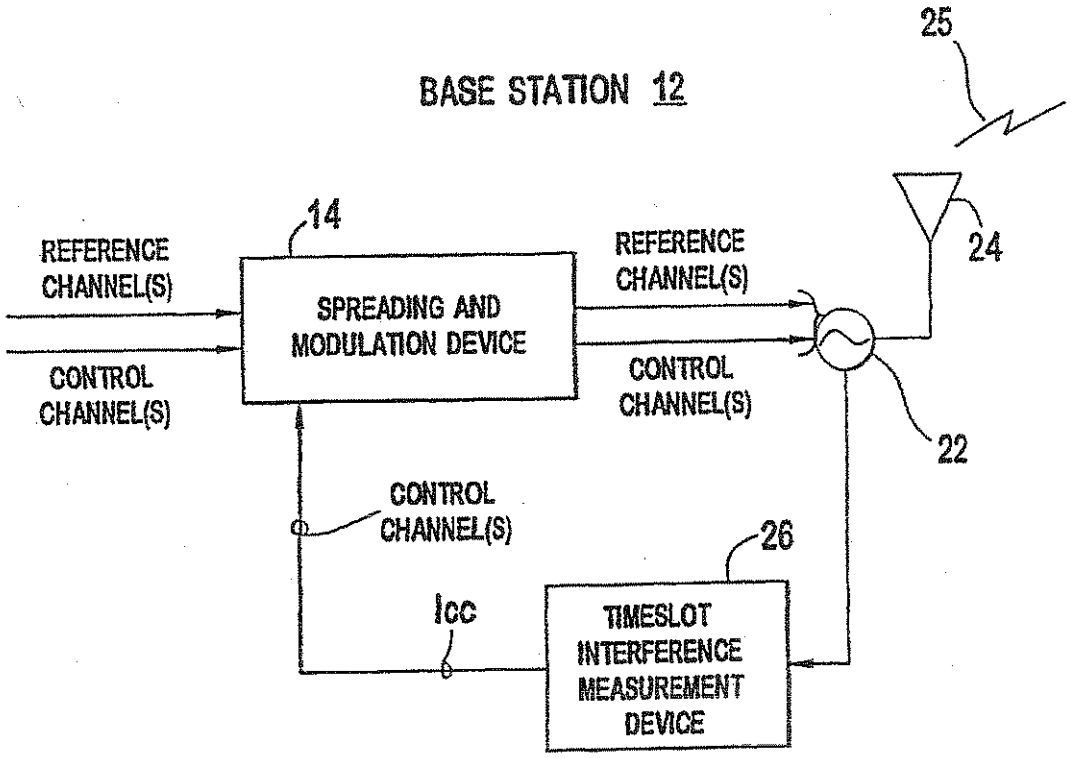

BASE STATION 12
25
24
14
REFERENCE CHANNEL(S)
CONTROL CHANNEL(S)
SPREADING AND MODULATION DEVICE
REFERENCE CHANNEL(S)
CONTROL CHANNEL(S)
22
CONTROL CHANNEL(S)
26
Icc
TIMESLOT INTERFERENCE MEASUREMENT DEVICE

FIG. 1C

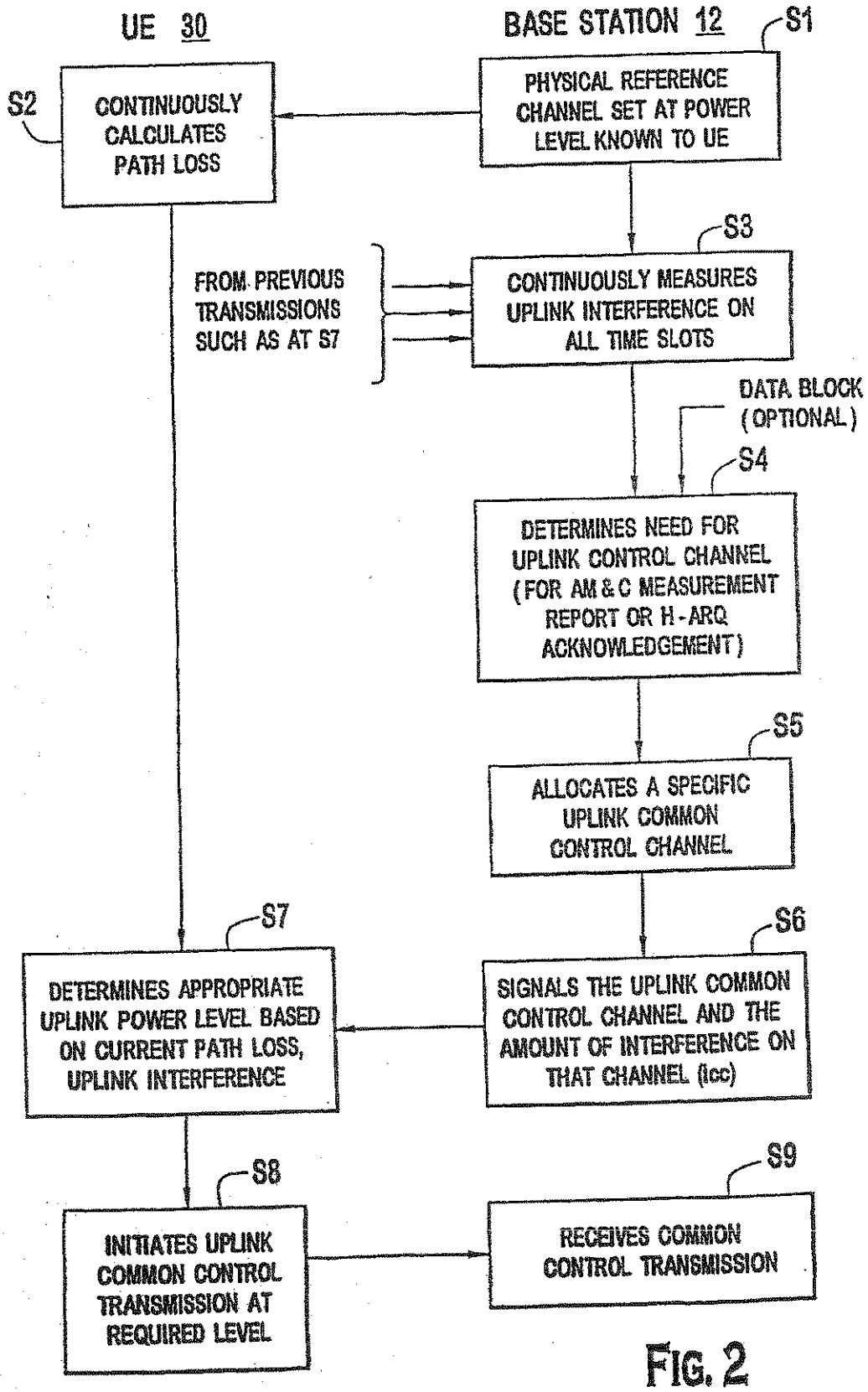

UE 30
BASE STATION 12
S1
PHYSICAL REFERENCE CHANNEL SET AT POWER LEVEL KNOWN TO UE
S2
CONTINUOUSLY CALCULATES PATH LOSS
S3
FROM PREVIOUS TRANSMISSIONS SUCH AS AT S7
CONTINUOUSLY MEASURES UPLINK INTERFERENCE ON ALL TIME SLOTS
DATA BLOCK (OPTIONAL)
S4
DETERMINES NEED FOR UPLINK CONTROL CHANNEL (FOR AM & C MEASUREMENT REPORT OR H-ARQ ACKNOWLEDGEMENT)
S5
ALLOCATES A SPECIFIC UPLINK COMMON CONTROL CHANNEL
S6
SIGNALS THE UPLINK COMMON CONTROL CHANNEL AND THE AMOUNT OF INTERFERENCE ON THAT CHANNEL (Icc)
S7
DETERMINES APPROPRIATE UPLINK POWER LEVEL BASED ON CURRENT PATH LOSS, UPLINK INTERFERENCE
S8
INITIATES UPLINK COMMON CONTROL TRANSMISSION AT REQUIRED LEVEL
S9
RECEIVES COMMON CONTROL TRANSMISSION

FIG. 2

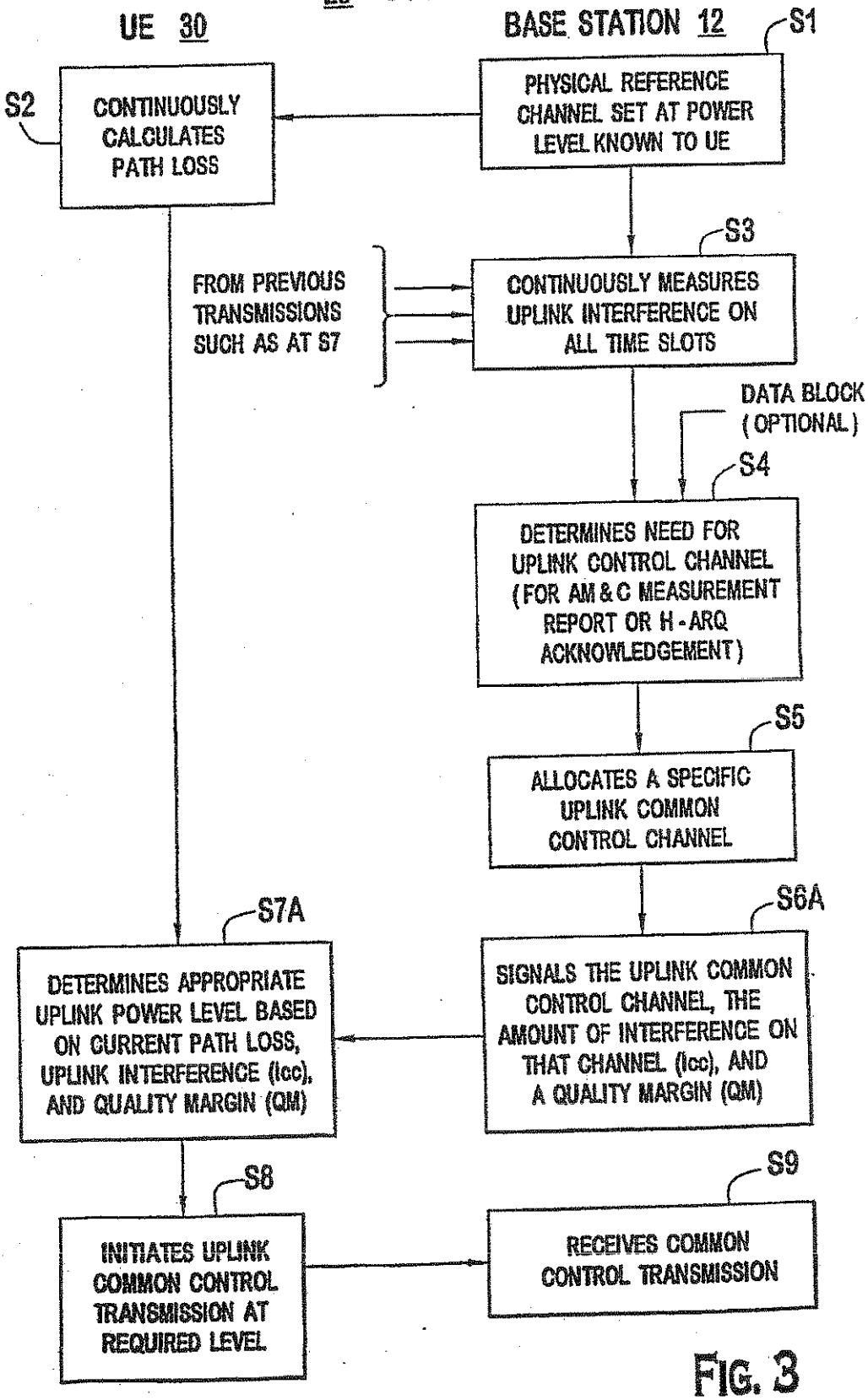

UE 30
BASE STATION 12
S1
PHYSICAL REFERENCE CHANNEL SET AT POWER LEVEL KNOWN TO UE
S2
CONTINUOUSLY CALCULATES PATH LOSS
FROM PREVIOUS TRANSMISSIONS SUCH AS AT S7
S3
CONTINUOUSLY MEASURES UPLINK INTERFERENCE ON ALL TIME SLOTS
DATA BLOCK (OPTIONAL)
S4
DETERMINES NEED FOR UPLINK CONTROL CHANNEL (FOR AM & C MEASUREMENT REPORT OR H-ARQ ACKNOWLEDGEMENT)
S5
ALLOCATES A SPECIFIC UPLINK COMMON CONTROL CHANNEL
S6A
SIGNALS THE UPLINK COMMON CONTROL CHANNEL, THE AMOUNT OF INTERFERENCE ON THAT CHANNEL (Icc), AND A QUALITY MARGIN (QM)
S7A
DETERMINES APPROPRIATE UPLINK POWER LEVEL BASED ON CURRENT PATH LOSS, UPLINK INTERFERENCE (Icc), AND QUALITY MARGIN (QM)
S8
INITIATES UPLINK COMMON CONTROL TRANSMISSION AT REQUIRED LEVEL
S9
RECEIVES COMMON CONTROL TRANSMISSION

FIG. 3