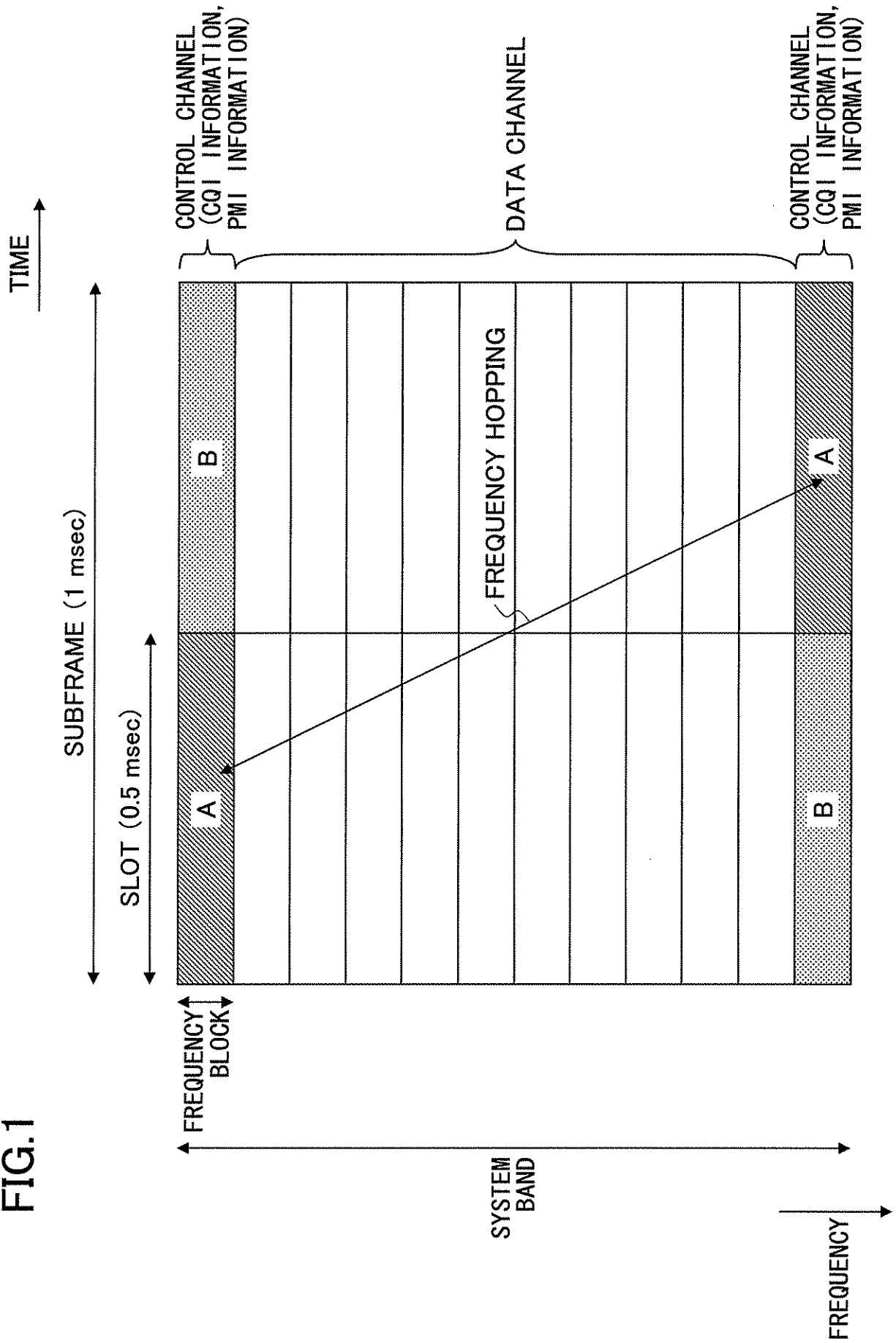


FIG.1



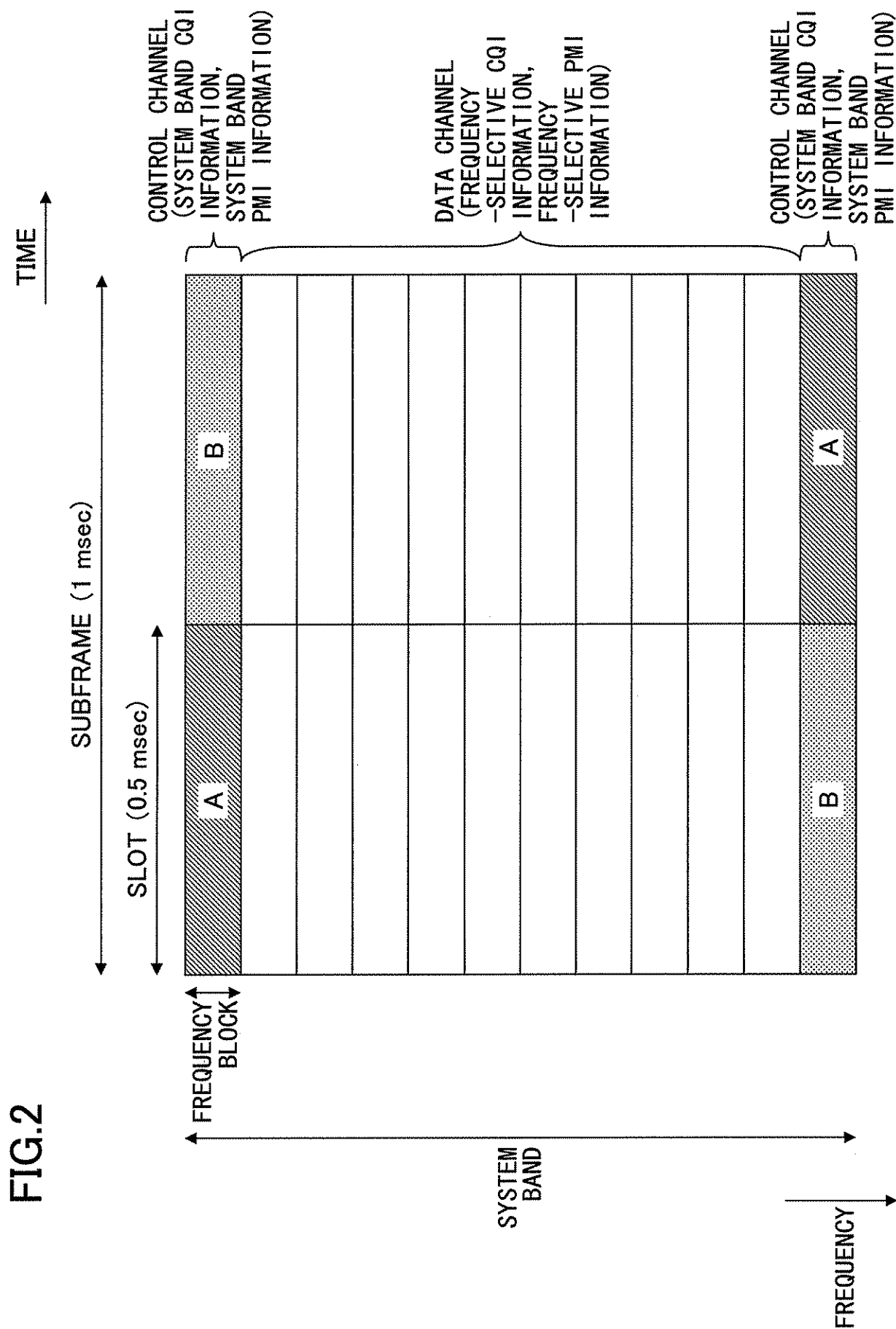


FIG.3

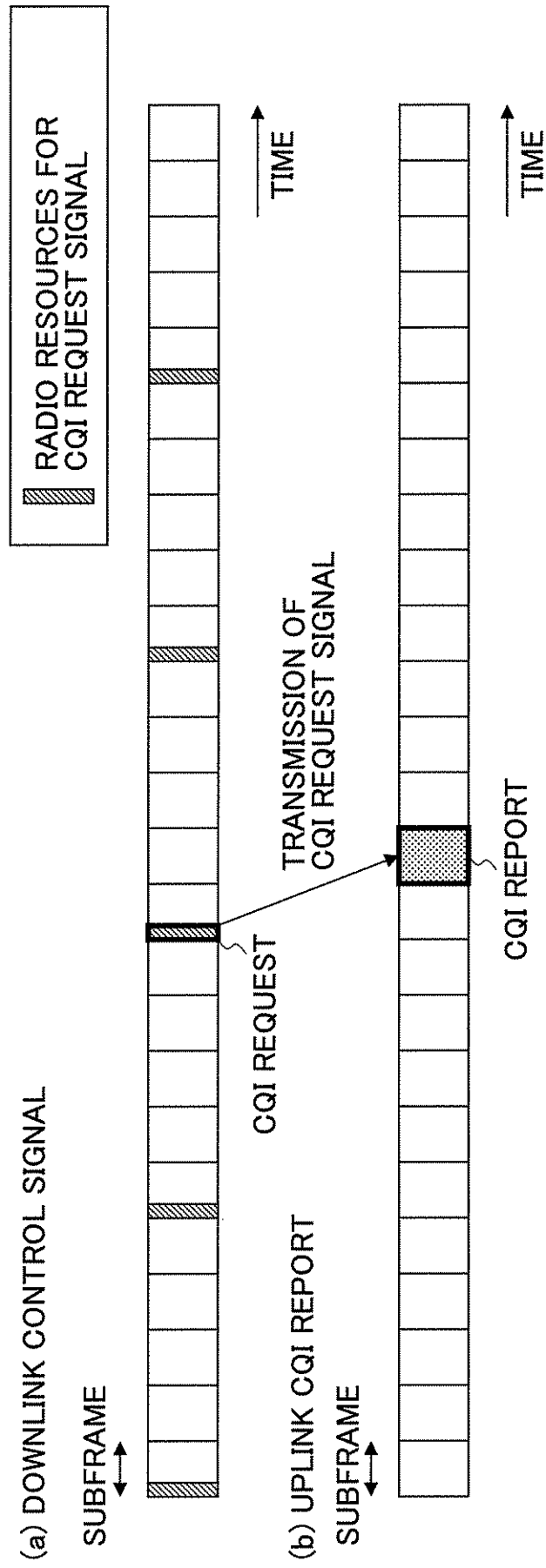


FIG.4

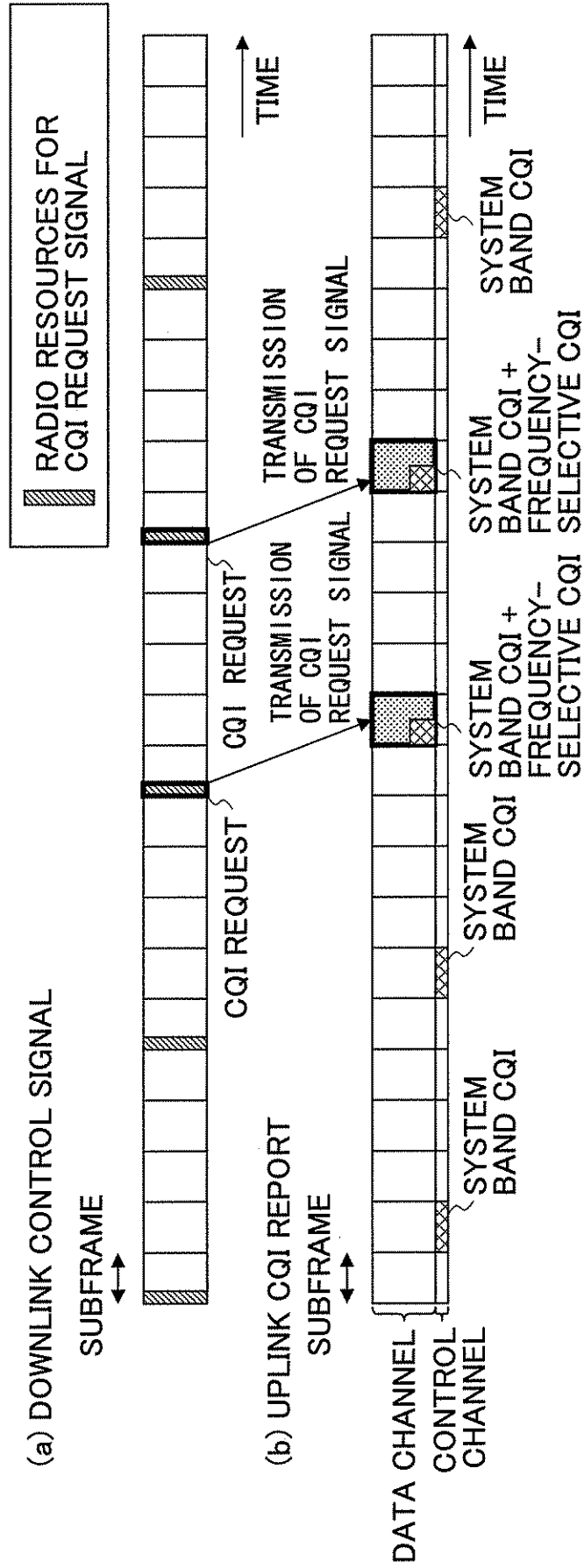


FIG.5

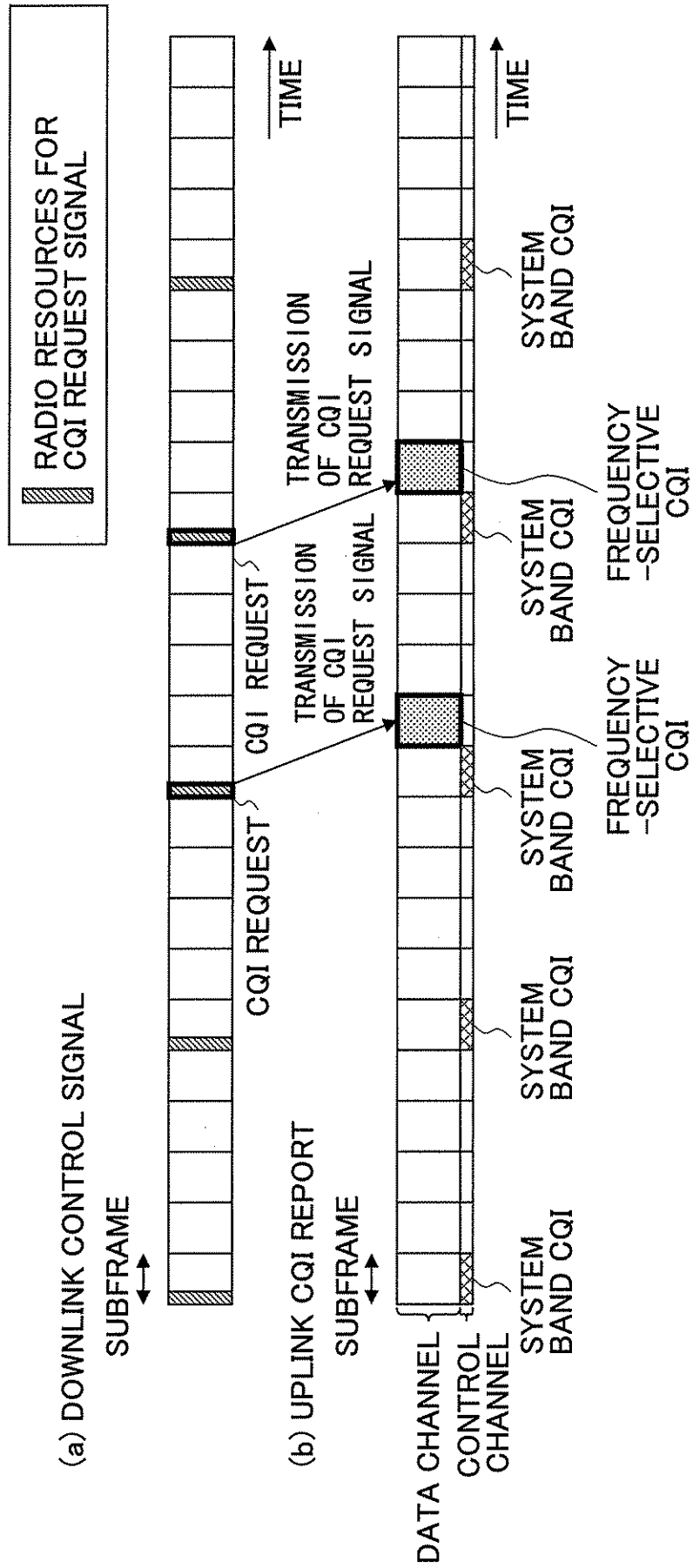


FIG.6

CONTROL SIGNALING INFORMATION	NUMBER OF BITS	NOTE
SCHEDULING GRANT FORMAT	1	INDICATE USE FOR UL GRANT OR DL GRANT
UPLINK RESOURCE BLOCK ASSIGNMENT INFORMATION	$\log_2(N_{RB}(N_{RB}+1)/2)$ 9, 11, 13 FOR 5, 10, 20 MHz	TREE-BASED MAPPING IS ASSUMED
UE ID	16	CORRESPOND TO CRC LENGTH
TRANSPORT FORMAT INFORMATION	6 (OR LESS)	2 BITS ARE USED FOR MODULATION SCHEME AND 4 BITS ARE USED FOR PAYLOAD SIZE
TRANSMISSION POWER	3	TO CONTROL TRANSMISSION POWER OF UPLINK DATA CHANNEL AND ACK/NACK SIGNAL ABSOLUTE VALUE FOR RESIDUAL INSTANTANEOUS FADING IS COMPENSATED
DEMODULATION REFERENCE SIGNAL FORMAT	3	SELECTION FROM DIFFERENT CYCLIC SHIFT INDICATES FOR MU-MIMO
TTI HOPPING INFORMATION (INTRA-TTI HOPPING)	0	USE OF TTI HOPPING IS INDICATED BY HIGH-LAYER CONTROL SIGNALING
UPLINK ANTENNA SELECTION INFORMATION	1	INDICATE SELECTED ANTENNA FOR UL ANTENNA SWITCHING
CQI INDICATION	1	INDICATES WHETHER CQI REPORT IS TRANSMITTED IN PUSCH
RETRANSMISSION-RELATED INFORMATION (HARQ-RELATED INFORMATION)	2	INDICATE REDUNDANCY VERSION (RV) FOR ADAPTIVE ARQ

FIG.7

CONTROL SIGNALING INFORMATION	NUMBER OF BITS	NOTE
SCHEDULING GRANT FORMAT	0	
UPLINK RESOURCE BLOCK ASSIGNMENT INFORMATION	5, 6, 7 FOR 5, 10, 20 MHz	USE CONSTANT BANDWIDTH FOR SIMPLIFICATION
UE ID	16	CORRESPOND TO CRC LENGTH
TRANSPORT FORMAT INFORMATION	0	
TRANSMISSION POWER	0	
DEMODULATION REFERENCE SIGNAL FORMAT	3	SELECTION FROM DIFFERENT CYCLIC SHIFT INDICATES FOR MU-MIMO
TTI HOPPING INFORMATION (INTRA-TTI HOPPING)	0	
UPLINK ANTENNA SELECTION INFORMATION	0	
CQI INDICATION	2	SPECIFY FREQUENCY RESOLUTION
RETRANSMISSION-RELATED INFORMATION (HARQ-RELATED INFORMATION)	0	

FIG.8

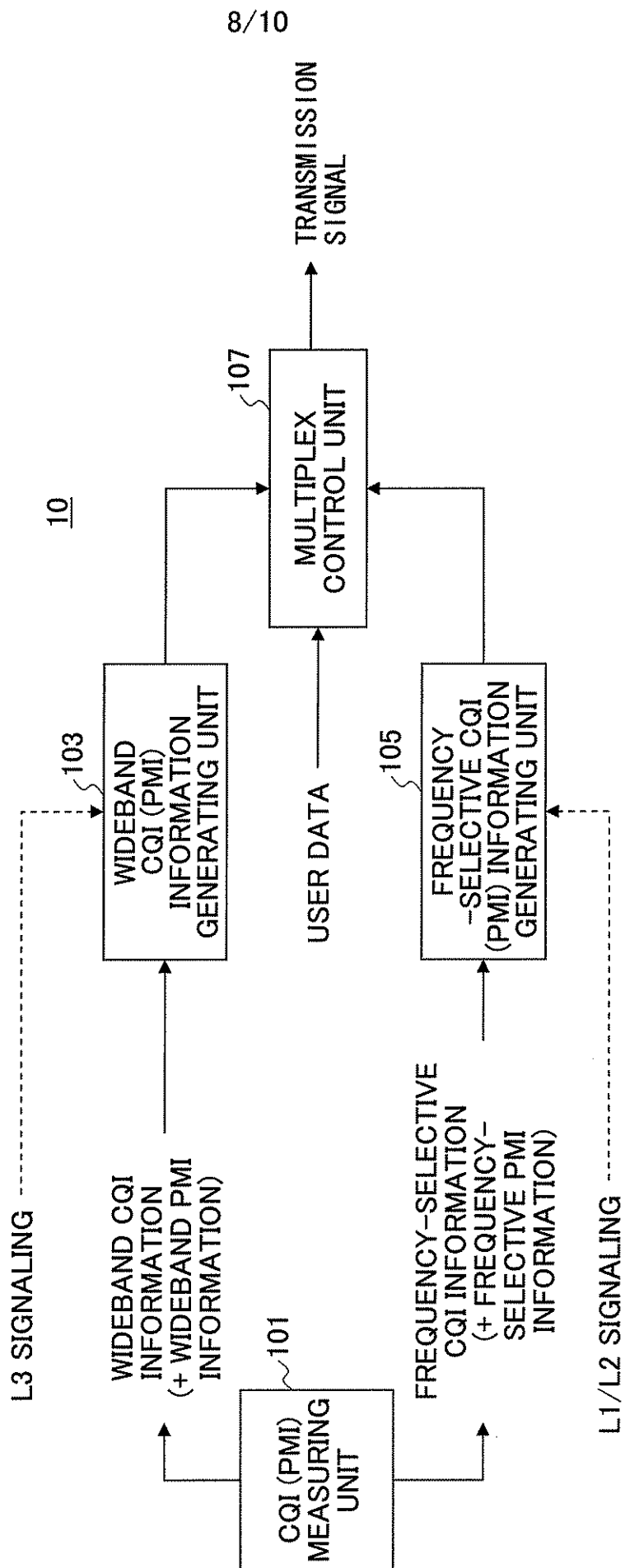
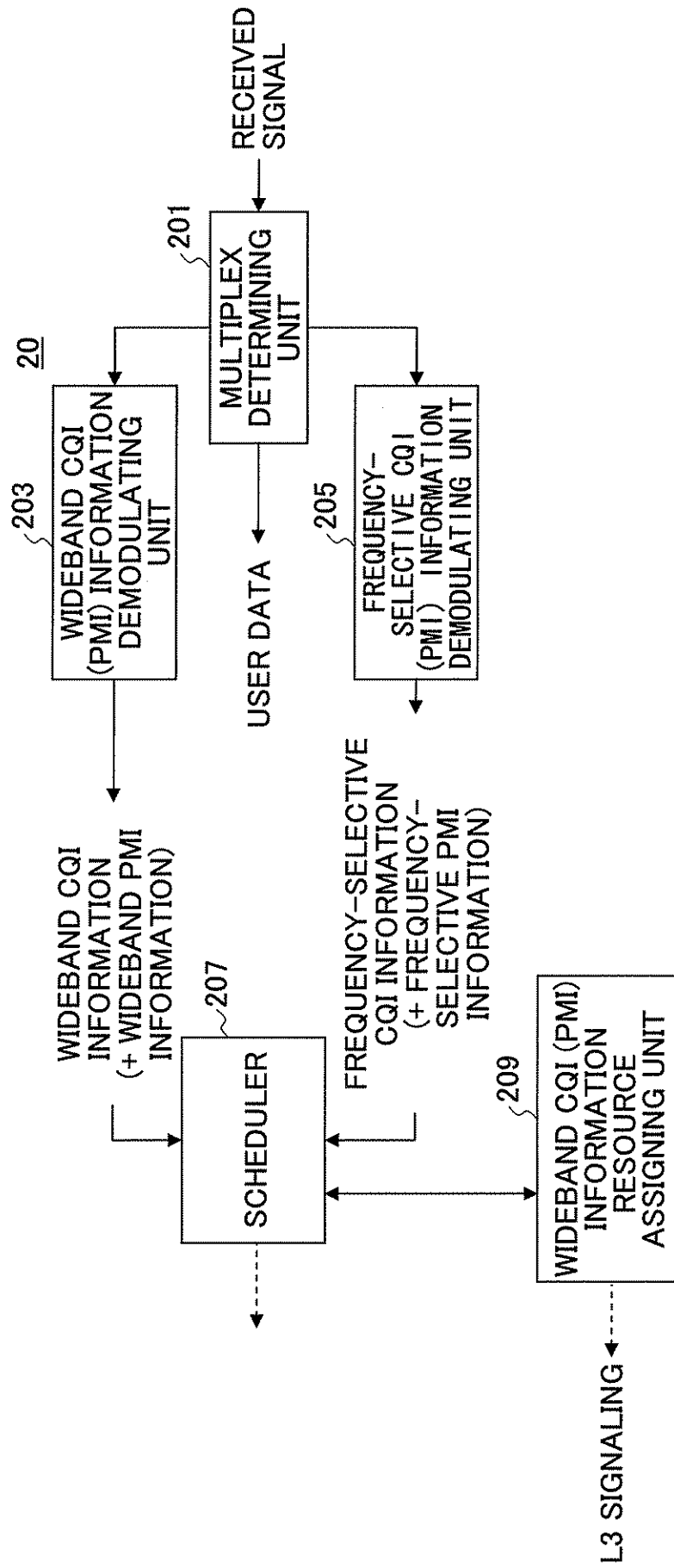


FIG.9



10/10
FIG.10

