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(54) **MOBILE COMMUNICATION SYSTEM, AND MOBILE UNIT, BASE STATION UNIT AND METHOD THEREFORE**

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(57) **ABSTRACT**

In mobile communication system having a plurality of mobile traits and a plurality of base station units, the system of the present invention is characterised in that the base station unit has a gap period length setting section for setting the length of the gap period for the mobile unit depending on the type of the radio access technology to be monitored by the mobile unit.

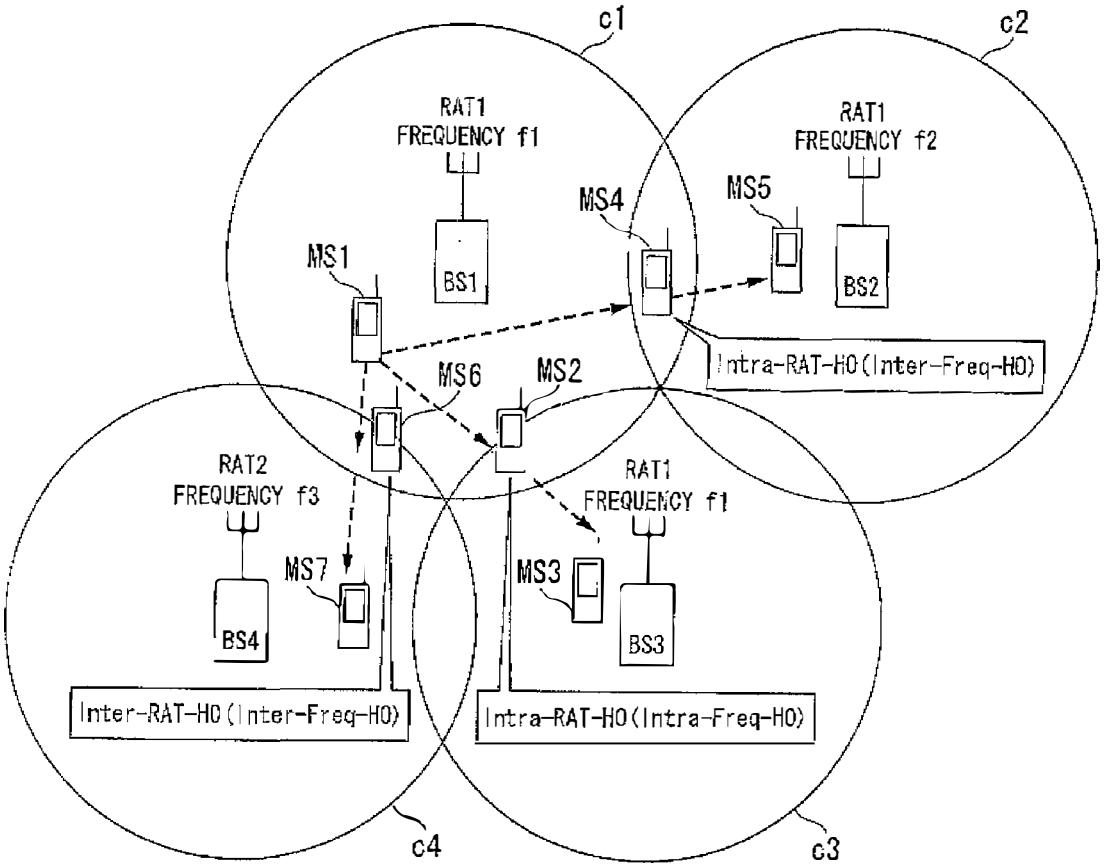

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FIG. 1

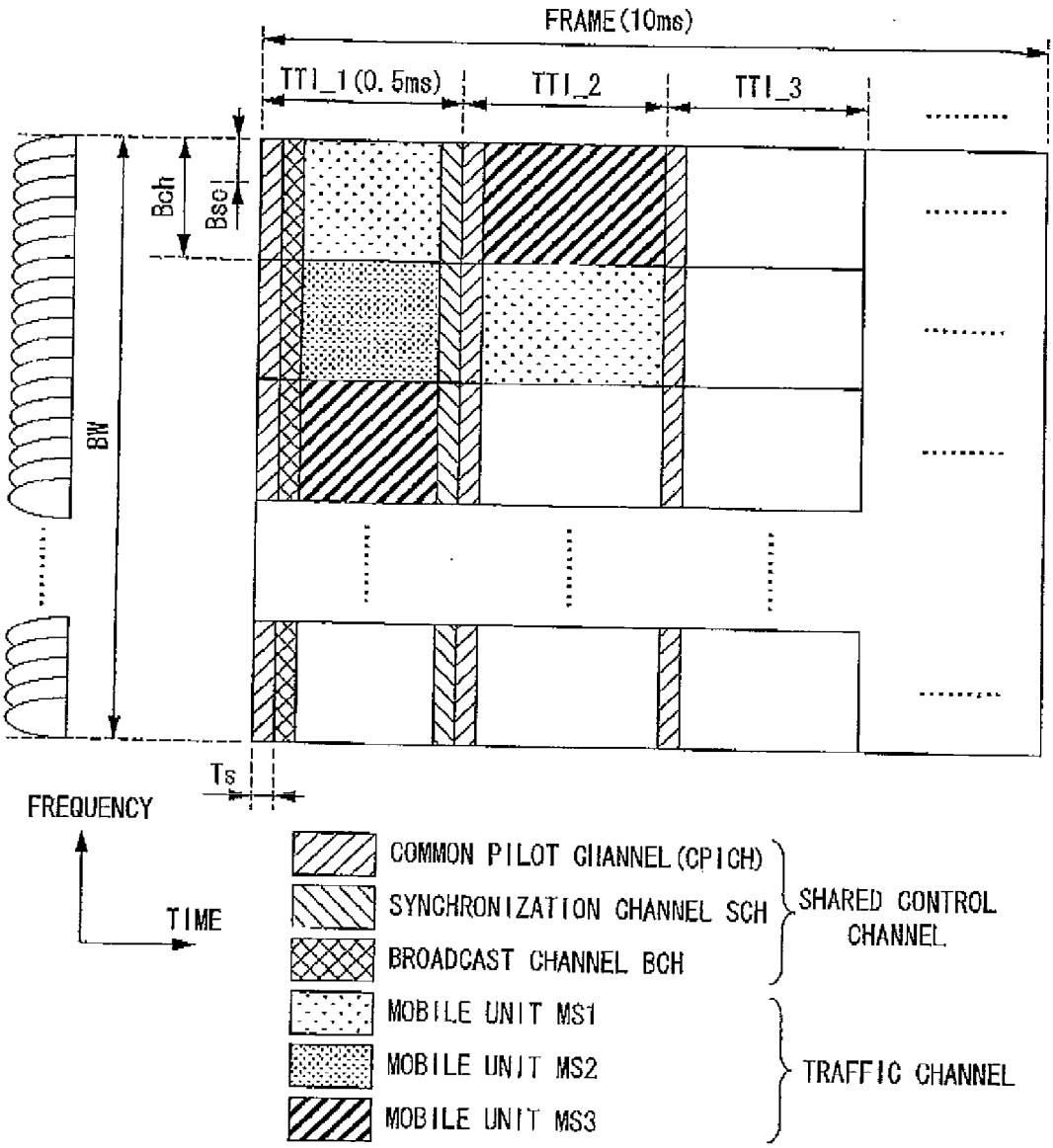

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FIG. 2

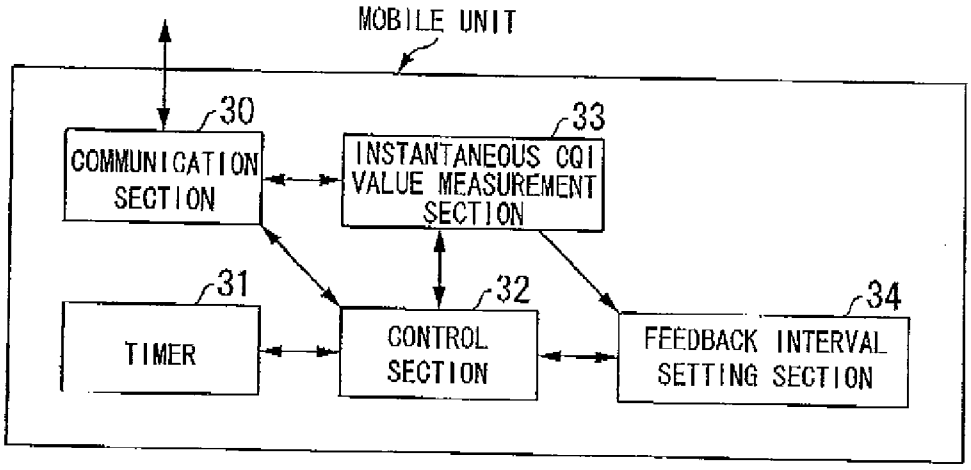

FIG. 3

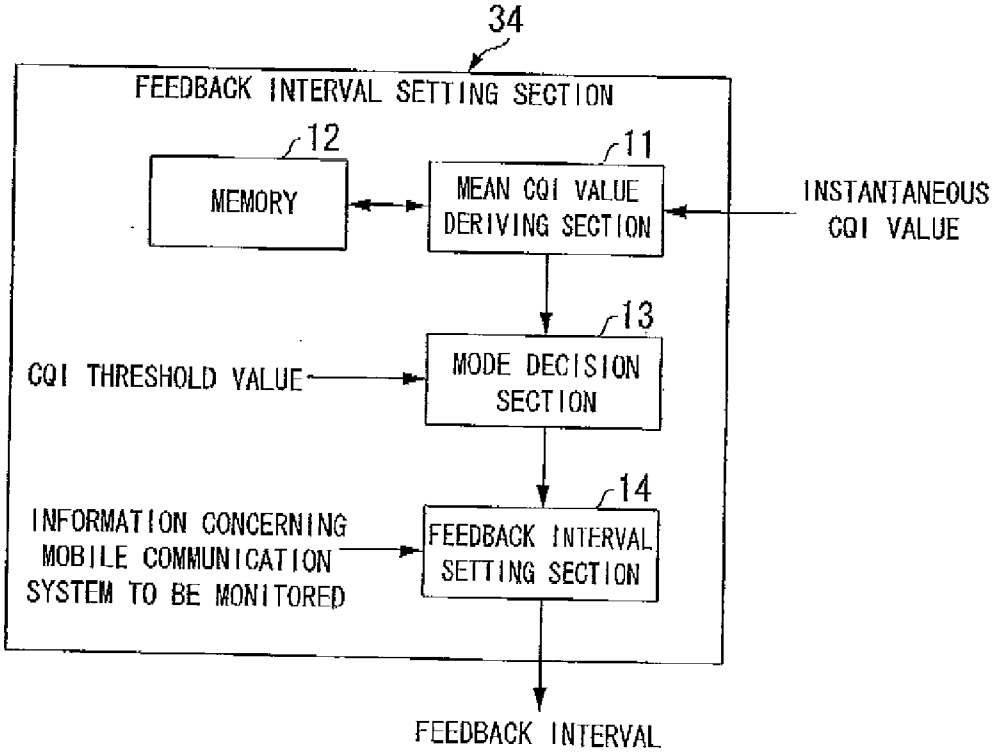

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FIG. 4A

RADIO ACCESS TECHNOLOGY	LENGTH OF GAP PERIOD
UTRA	T_{10}
GSM	T_{20}
NON-3GPP SYSTEM	T_{30}

FIG. 4B

RADIO ACCESS TECHNOLOGY	FREQUENCY BAND USED	LENGTH OF GAP PERIOD
UTRA	f_1MHzBAND	T_{10}
	f_2MHzBAND	T_{11}
GSM	f_3MHzBAND	T_{20}
	f_4MHzBAND	T_{21}
NON-3GPP SYSTEM	f_5GHzBAND	T_{30}
	f_6GHzBAND	T_{31}

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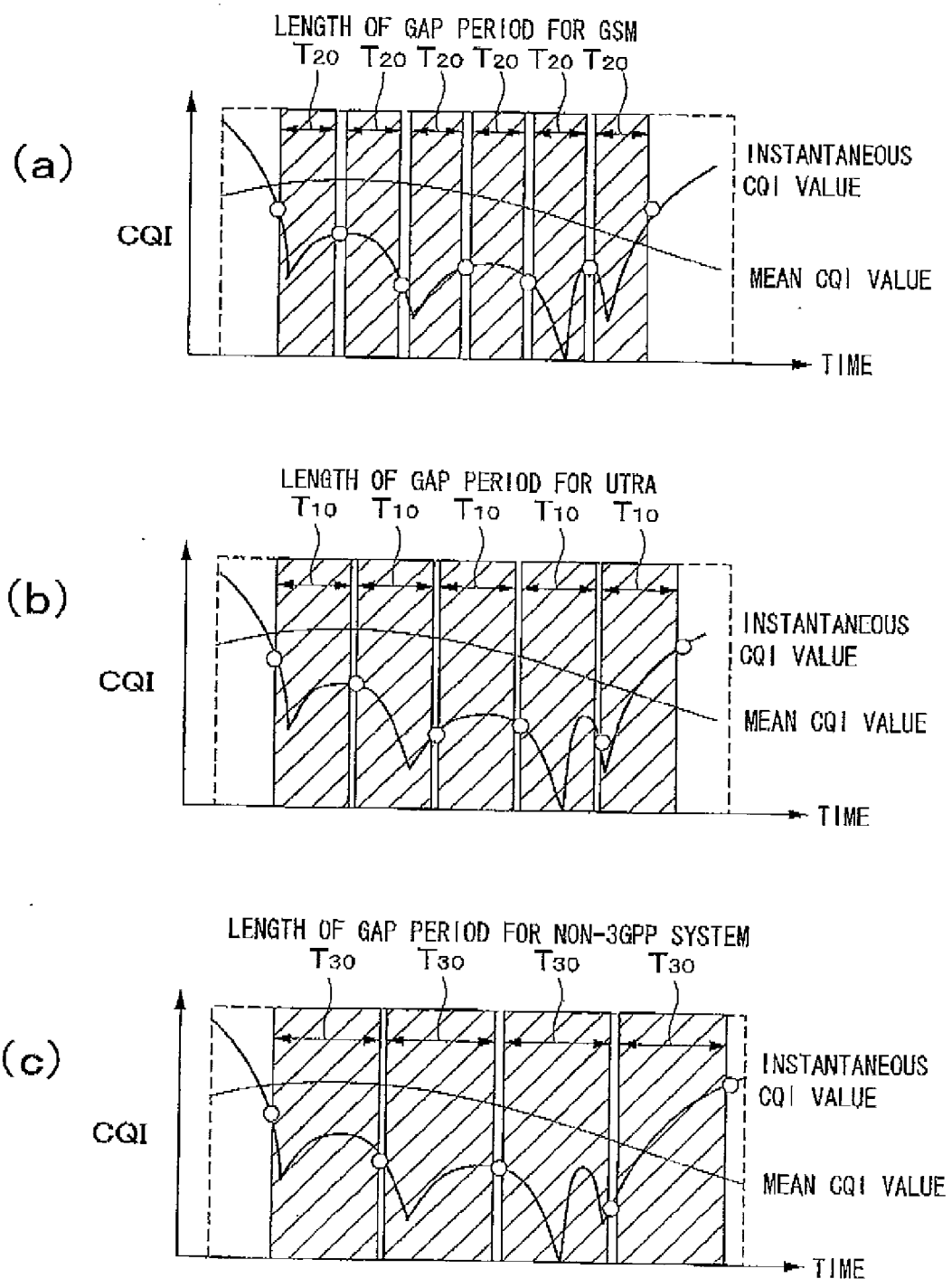
FIG. 5



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