



[54] RADIO COMMUNICATION SYSTEM WITH DIVERSITY RECEPTION ON A TIME-SLOT BY TIME-SLOT BASIS

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[57] ABSTRACT

[51] Int. Cl.<sup>6</sup> ..... H04Q 7/00

[52] U.S. Cl. .... 370/332; 370/347

[58] Field of Search ..... 370/331, 332,  
370/333, 334, 337, 264, 347

A communication system base station improves uplink coverage on a time slot by time slot basis. The coverage is improved by allocating diversity and non-diversity time-slots based on received signal quality of an RF link between a mobile station and a base station. The diversity time-slots are time slots during which information is received by more receiver branches than during the non-diversity time-slots.

[56] References Cited

U.S. PATENT DOCUMENTS

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32 Claims, 4 Drawing Sheets

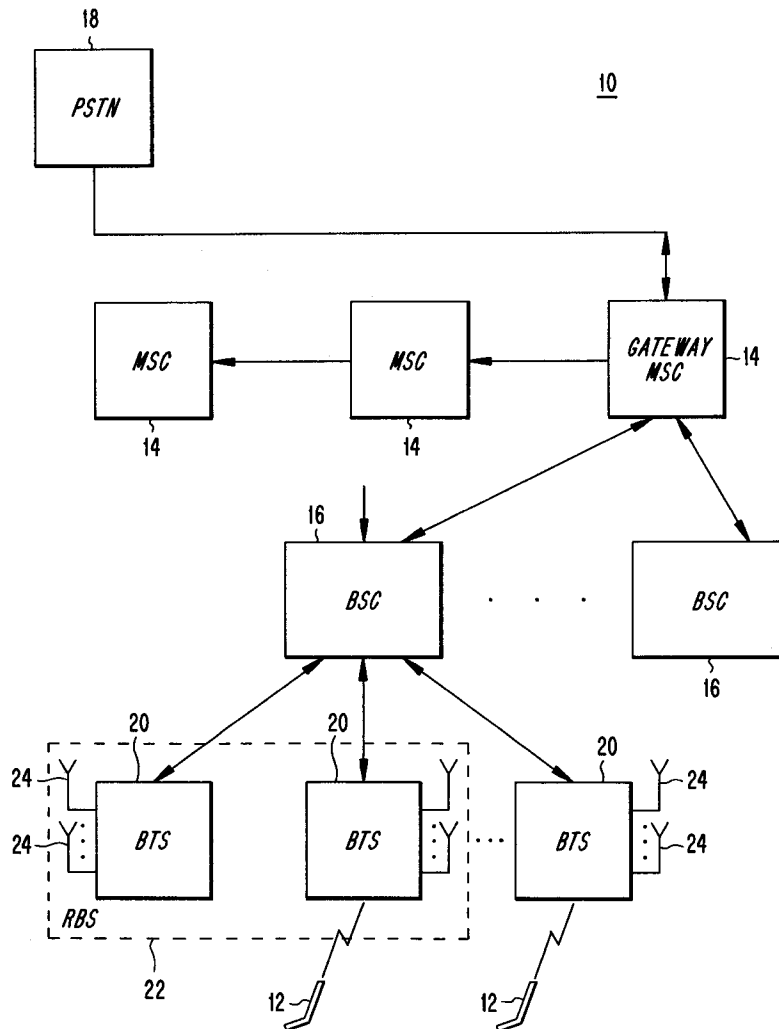


FIG. 1

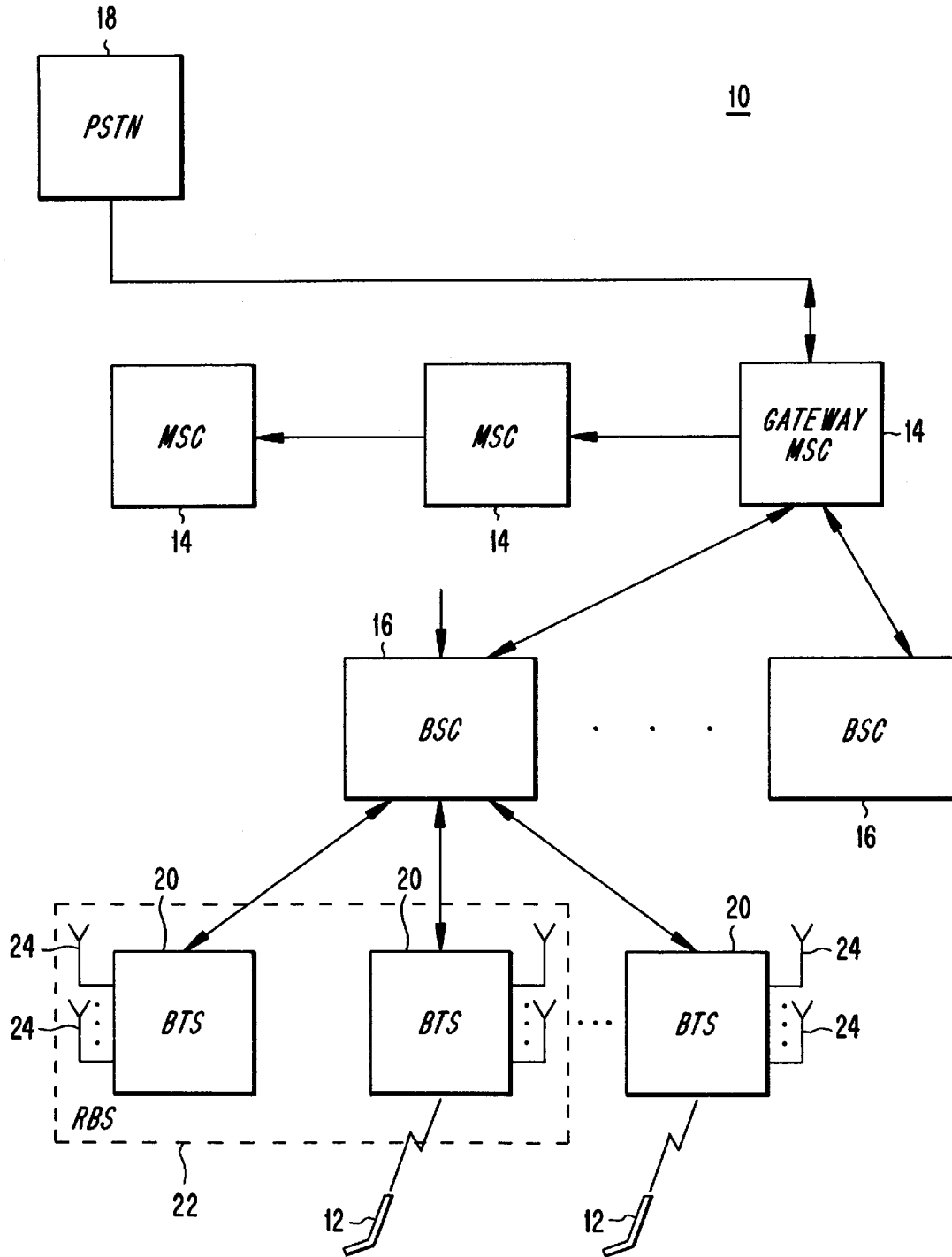
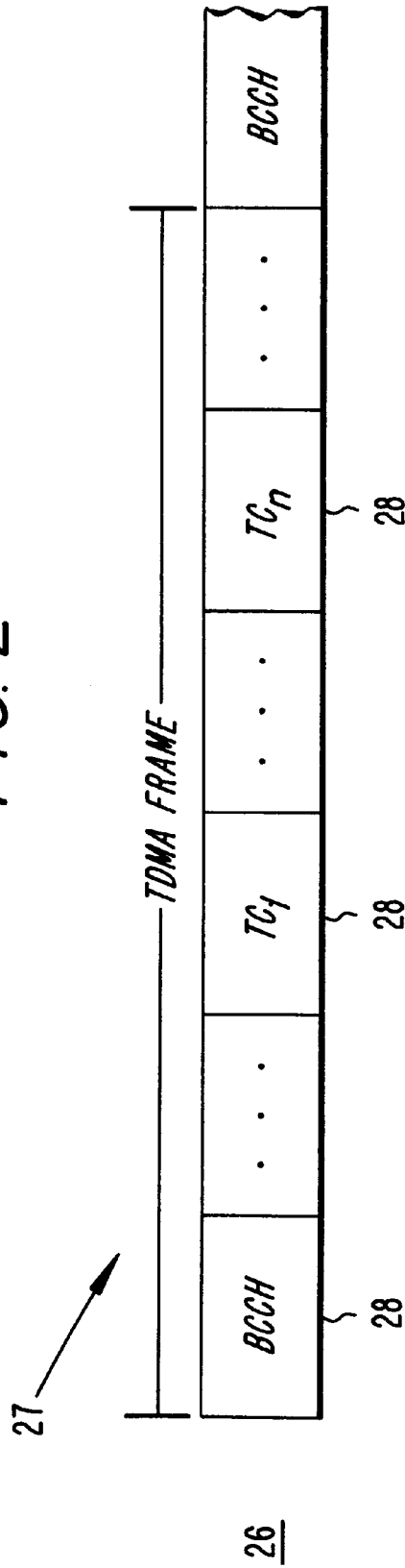


FIG. 2



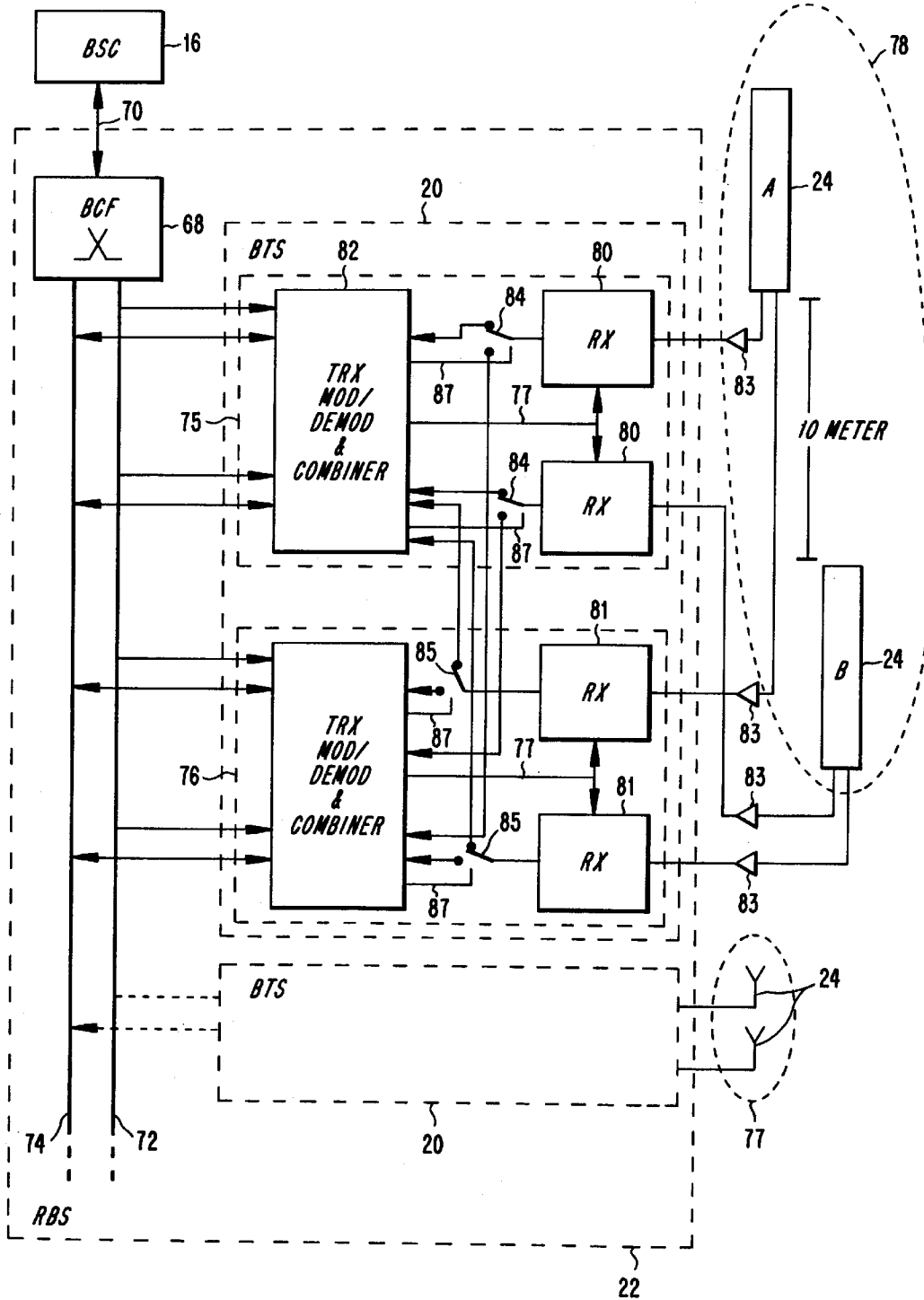
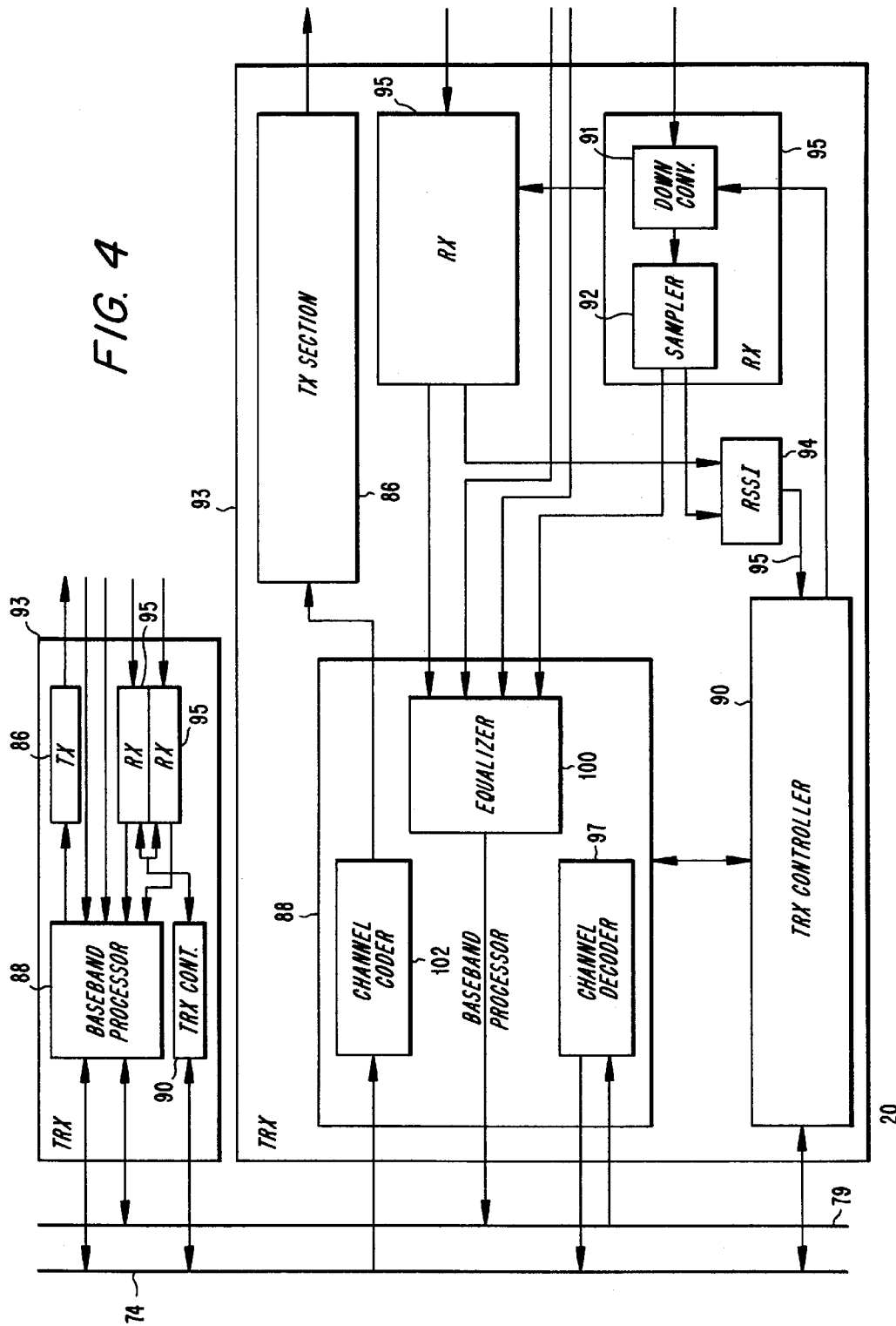


FIG. 3



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