



United States Patent [19]

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Byrne

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[54] MULTI-MODE RADIO TELEPHONE

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[73] Assignee: **Nokia Mobile Phones Ltd.**, Salo, Finland

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Primary Examiner—Dwayne D. Bost
Attorney, Agent, or Firm—Perman & Green

[21] Appl. No.: **407,682**

[22] Filed: **Mar. 21, 1995**

[30] Foreign Application Priority Data

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[51] Int. Cl.⁶ **H04Q 7/38**

[52] U.S. Cl. **379/58; 379/59; 379/61; 370/95.3**

[58] Field of Search 379/58, 59, 60, 379/61; 370/95.1-95.3

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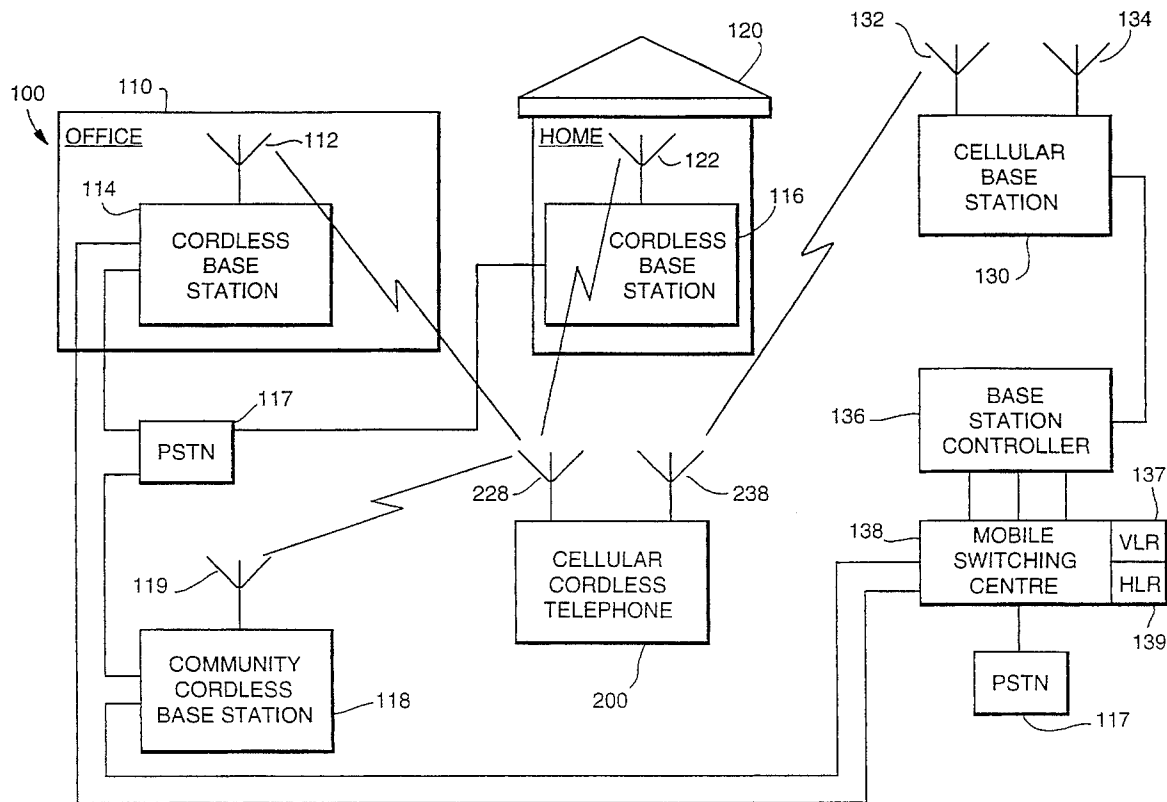
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[57] ABSTRACT

A radio telephone (200) is operable in a cordless telephone system or in a cellular telephone system, in each of which reception and transmission occur in time slots. A microprocessor (210) of the telephone has an additional control entity (212) which predicts temporal overlap or coincidence of receive and transmit slots in the two systems. This information is used either to alter the time slots to avoid the predicted overlap or coincidence or to reduce the effect of interference, for example by muting certain slots or repeating signals in previous slot or slots.

10 Claims, 4 Drawing Sheets



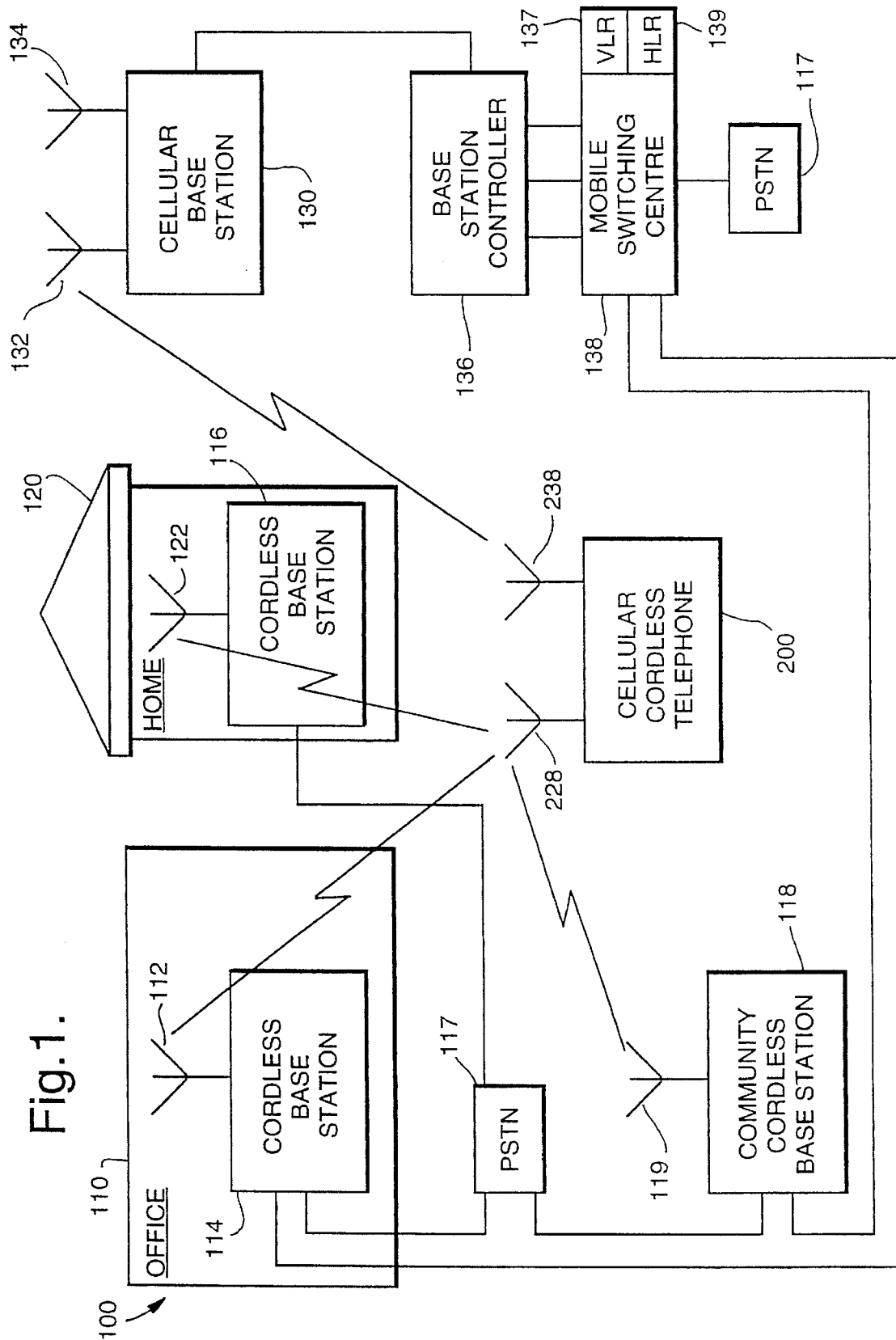


Fig. 1.

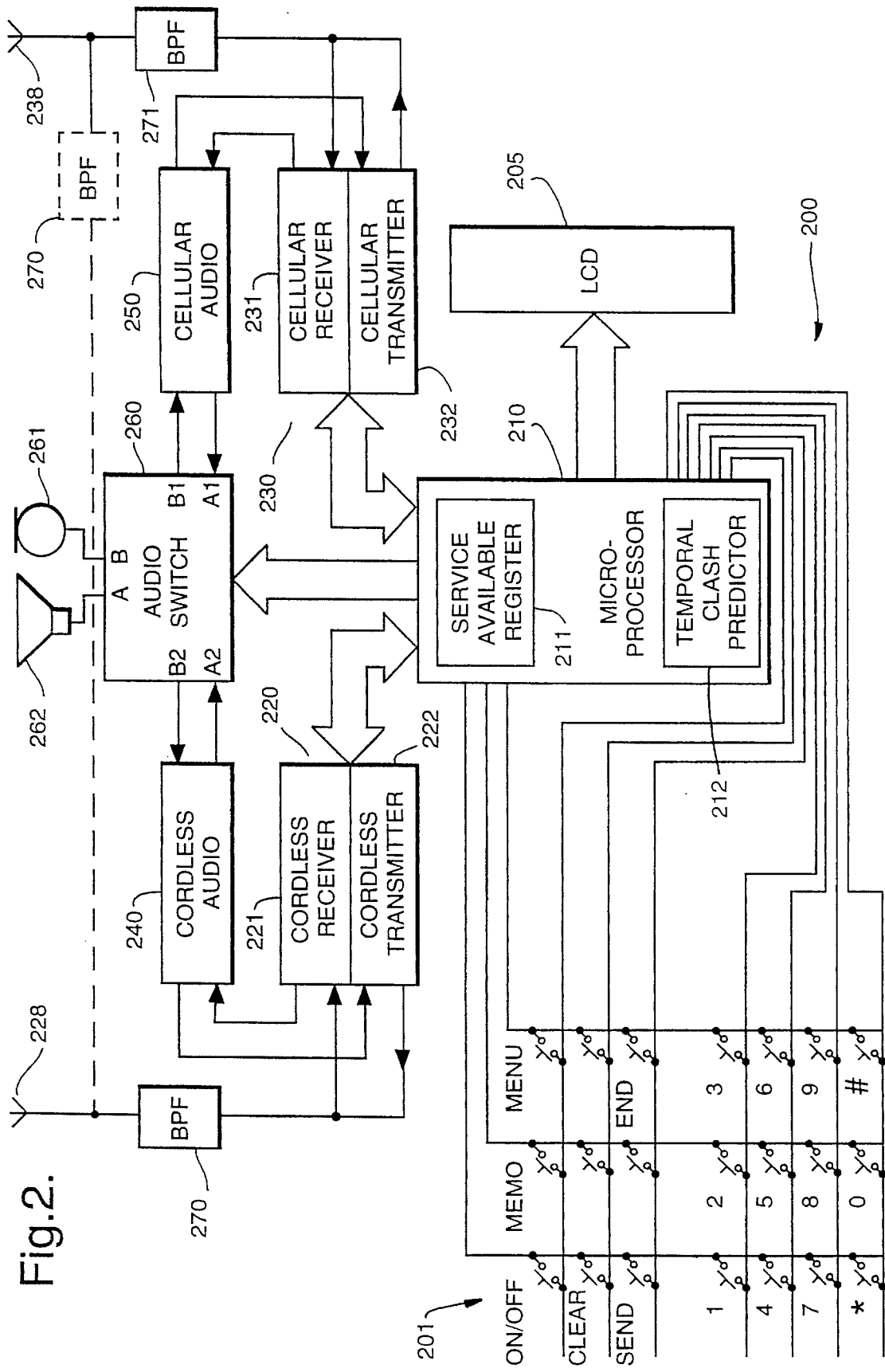


Fig.2.

Fig.3.

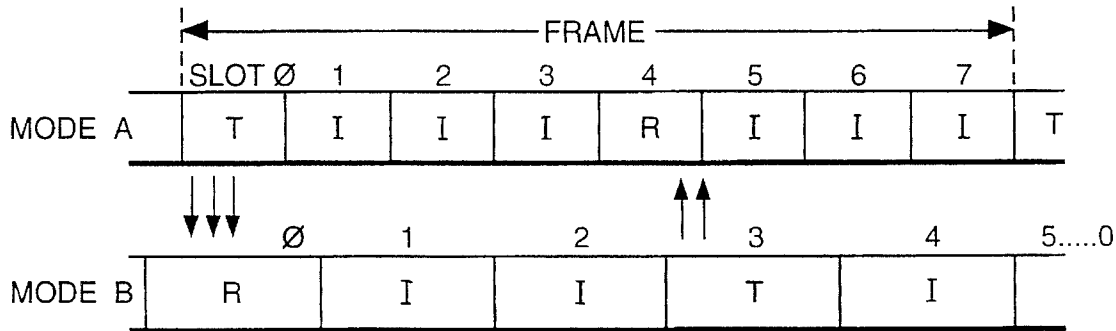


Fig.4.

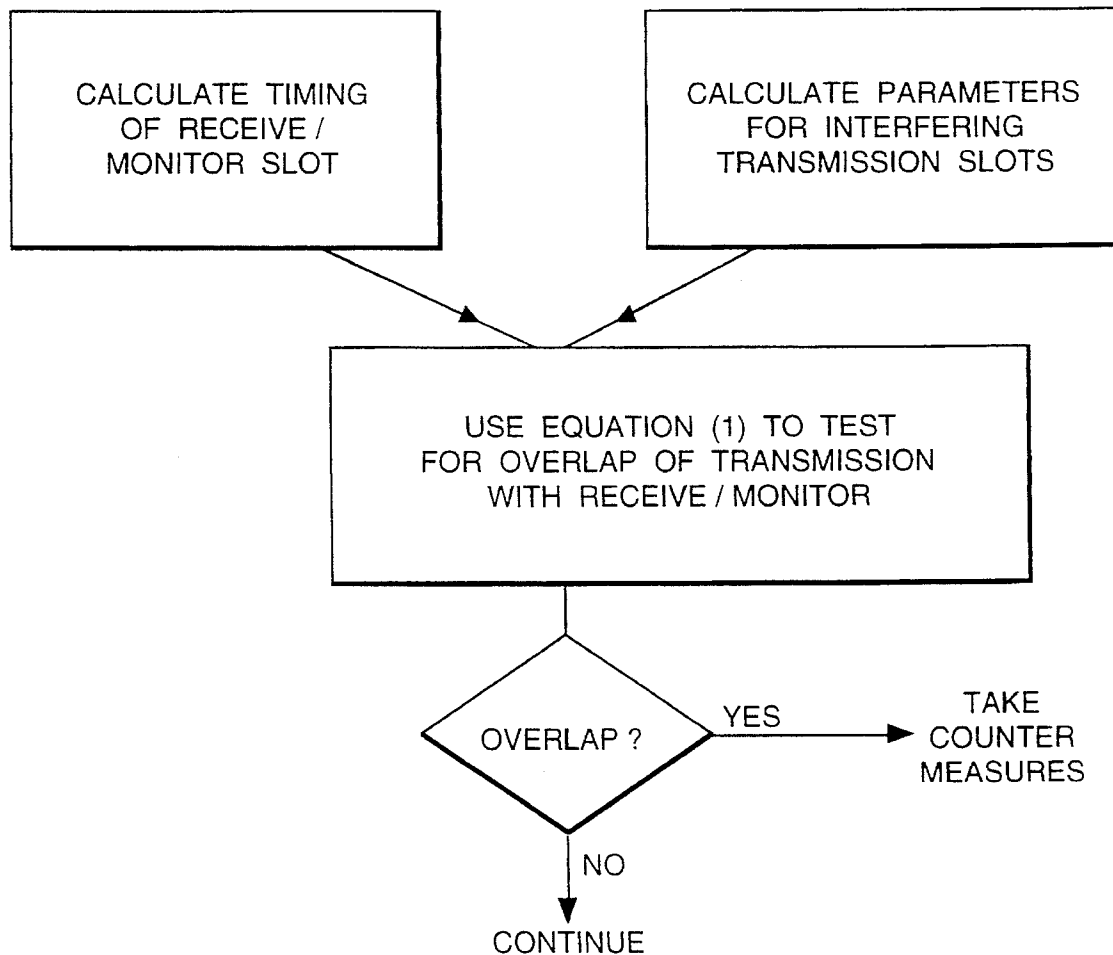


Fig.5.

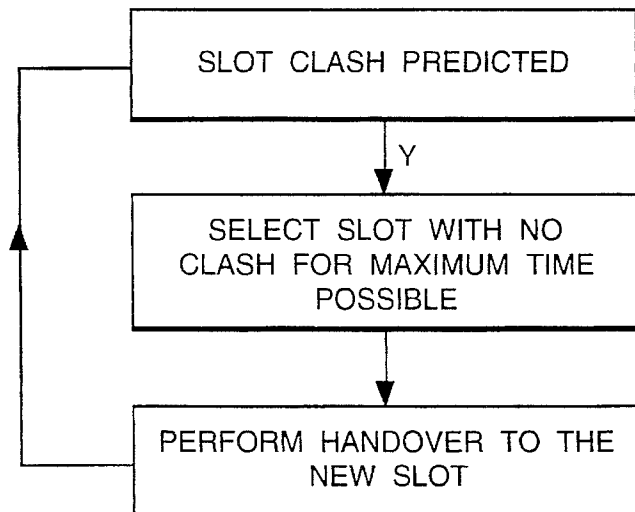
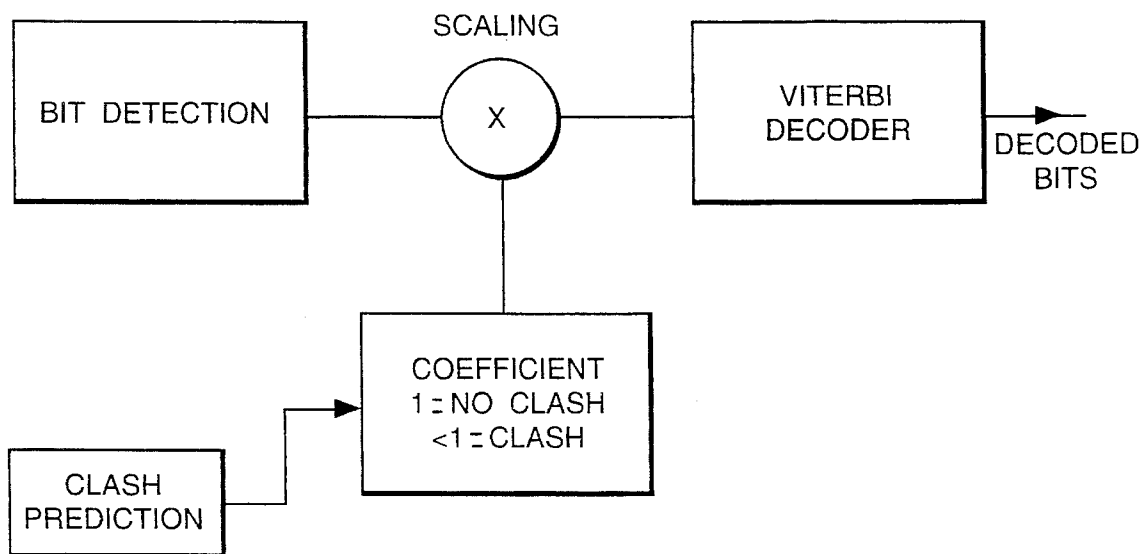


Fig.6.



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