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[54] **MOBILE RADIO COMMUNICATION SYSTEM HAVING MOBILE BASE AND PORTABLE DEVICES AS A MOBILE STATION**

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[73] Assignee: **Kabushiki Kaisha Toshiba, Kawasaki, Japan**

[21] Appl. No.: **778,272**

[22] Filed: **Oct. 17, 1991**

[30] **Foreign Application Priority Data**

Oct. 17, 1990 [JP] Japan 2-277680

[51] Int. Cl.⁵ **H04J 3/16**

[52] U.S. Cl. **370/95.1; 379/59; 455/33.1**

[58] **Field of Search** 370/95.1, 95.3, 85.13, 370/85.14; 455/58.1, 58.2, 33.1; 379/60, 61, 62, 63, 59

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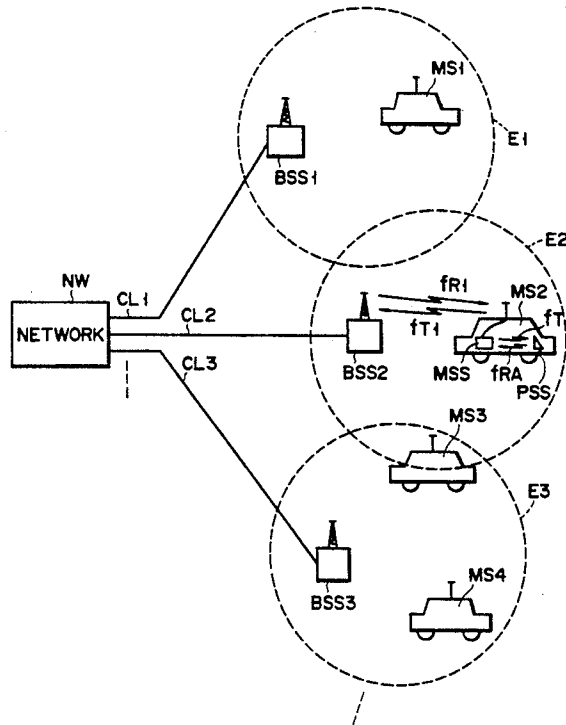
Primary Examiner—Douglas W. Olms

Assistant Examiner—Shick Hom
Attorney, Agent, or Firm—Banner, Birch, McKie & Beckett

[57] **ABSTRACT**

A mobile radio communication system according to the invention comprises a base station to be connected with a communication network by way of a wired communication path, a mobile base device to be connected with the base station by way of a first radio channel selected from a plurality of first radio channels and a portable device to be connected with the mobile base device by way of a second radio channel selected from a plurality of second radio channels. Each of the first and second radio channels defined by a radio frequency and a time slot. The mobile base device comprises first, second and third connection control circuits. The first connection control circuit is used to select an idle first radio channel out of the first radio channels in cooperation with the base station and connect the mobile base device with the base station by the selected idle first radio channel. The second connection control circuit is used to select a radio channel having an idle time slot showing a specific relationship with the first radio channel selected by the first connection control circuit and connect the mobile base device and the portable device by the selected idle second radio channel. The third connection control circuit is used to connect the first and second radio channels and establish a telephone communication path between the base station and the portable device.

29 Claims, 8 Drawing Sheets



**MBUSA LLC
EXHIBIT 1005**

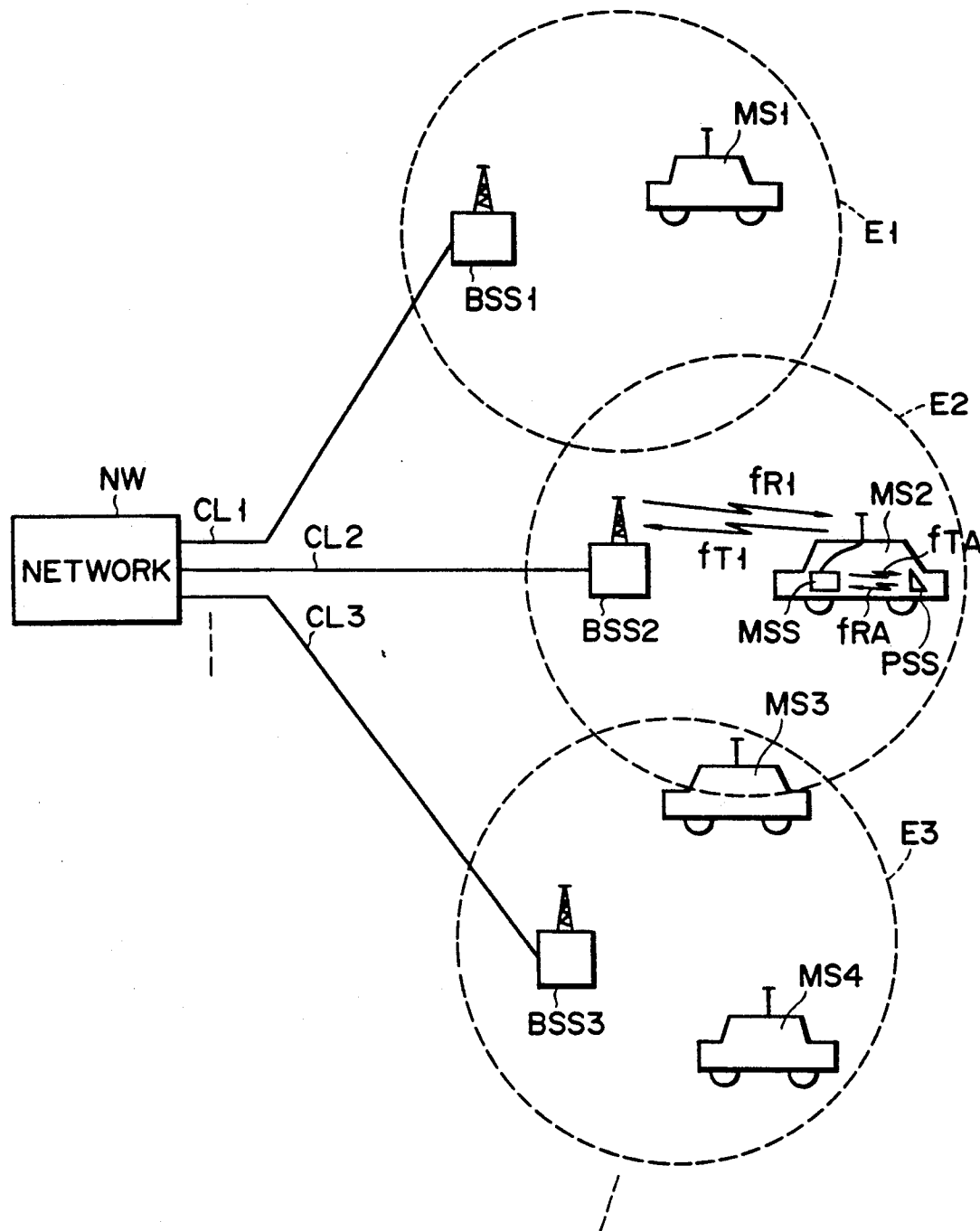


FIG. 1

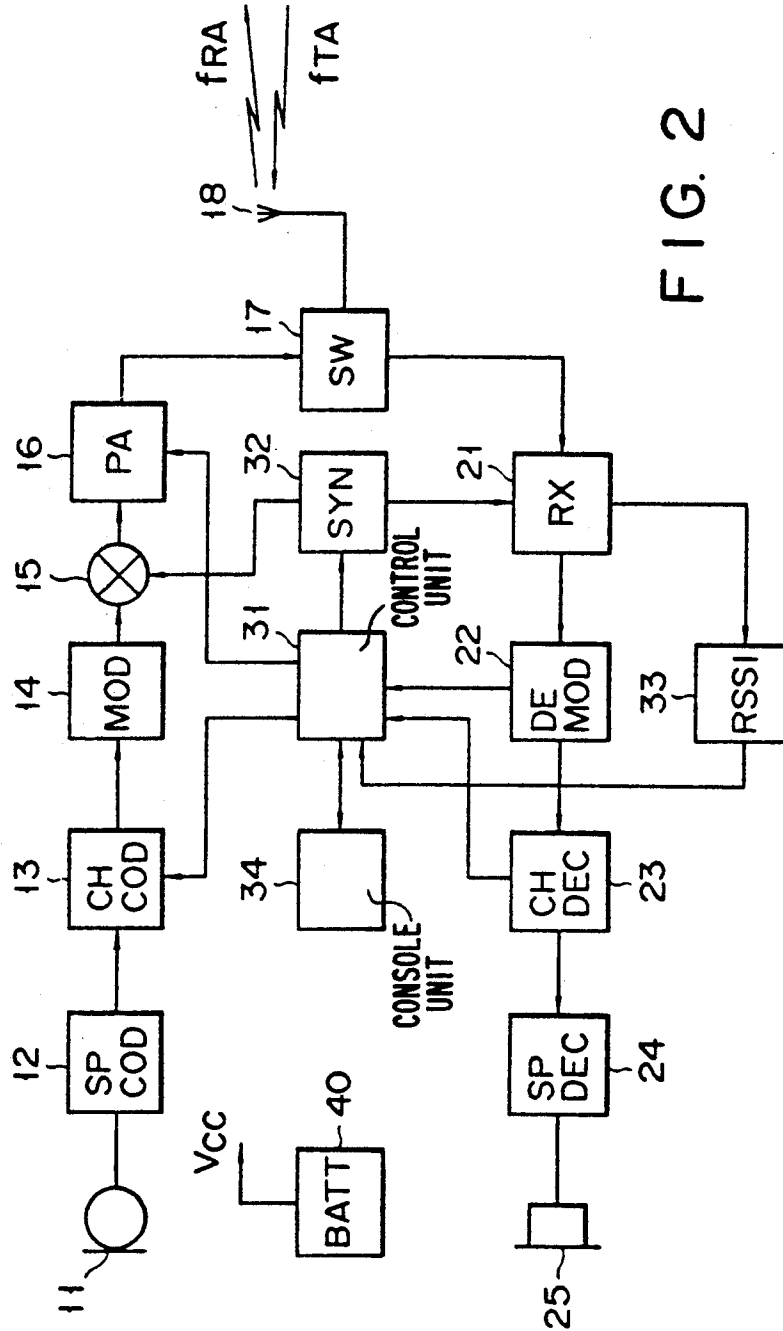


FIG. 2

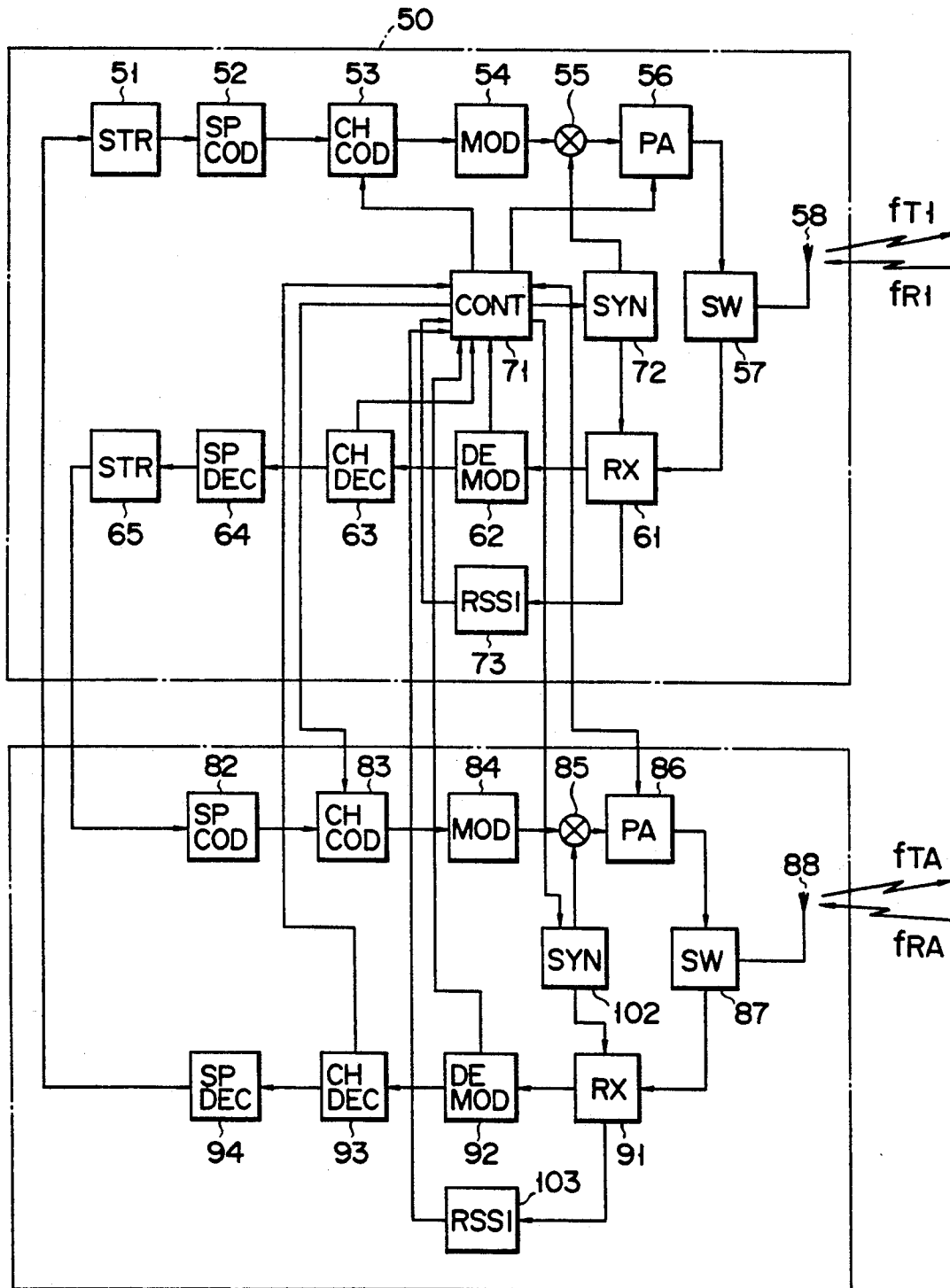


FIG. 3

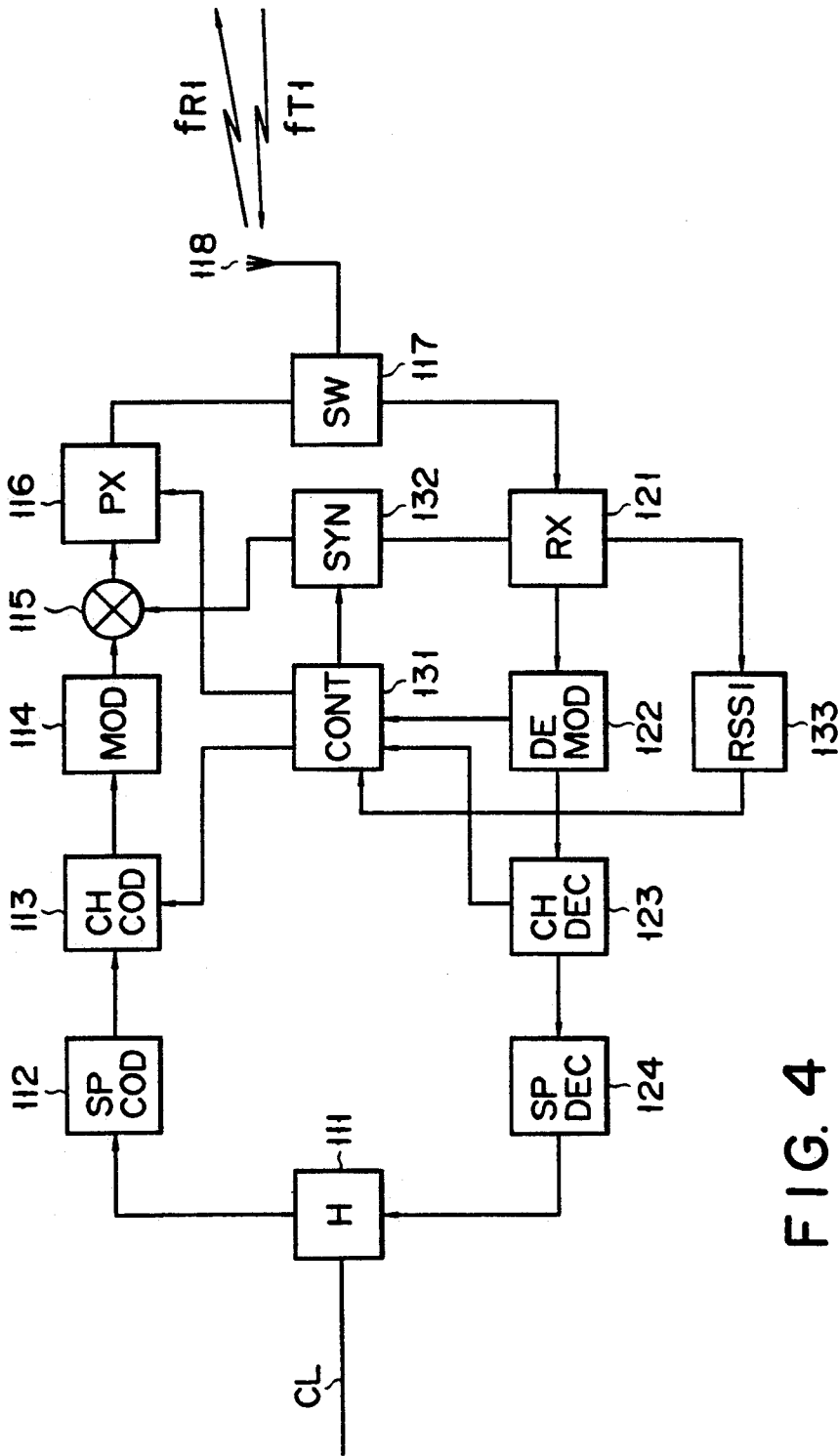


FIG. 4

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