

**United States Patent** [19]

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**Yabusaki et al.**

[45] **Date of Patent:** Apr. 30, 1996

[54] **RADIO COMMUNICATION SYSTEM WITH CONTROLLED VOICE CODE SWITCHING**

[75] Inventors: **Masami Yabusaki; Kouji Yamamoto,** both of Saitama; **Shinji Uebayashi,** Kanagawa, all of Japan

[73] Assignees: **Nippon Telegraph and Telephone Corp; NTT Mobile Communications Network Inc.,** both of Tokyo, Japan

[21] Appl. No.: **249,077**

[22] Filed: **May 25, 1994**

**Related U.S. Application Data**

[63] Continuation of Ser. No. 849,197, Mar. 11, 1992, abandoned.

**Foreign Application Priority Data**

Sep. 2, 1991 [JP] Japan ..... 3-246430

[51] **Int. Cl.<sup>6</sup>** ..... **H04B 1/38; H04L 5/16**

[52] **U.S. Cl.** ..... **375/219; 455/53.1; 379/258**

[58] **Field of Search** ..... 379/58, 59, 90, 379/258, 230; 455/53.1, 54.1, 38.1, 14; 375/377, 242, 243, 219

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*Primary Examiner*—Stephen Chin  
*Assistant Examiner*—Hai H. Phan  
*Attorney, Agent, or Firm*—Martin Novack

[57] **ABSTRACT**

A radio communication system operates between two radio terminals, and/or between a radio terminal and a fixed terminal through a network. In the present disclosure, the switching of codec-release mode and codec mode in the network is controlled by using a specific control line which is installed in addition to a speech line. Thus, when a radio terminal communicates with another radio terminal through a network, no codec is used in the network, and so, speech distortion and signal delay are not deteriorated due to signal conversion by using a codec.

**3 Claims, 6 Drawing Sheets**

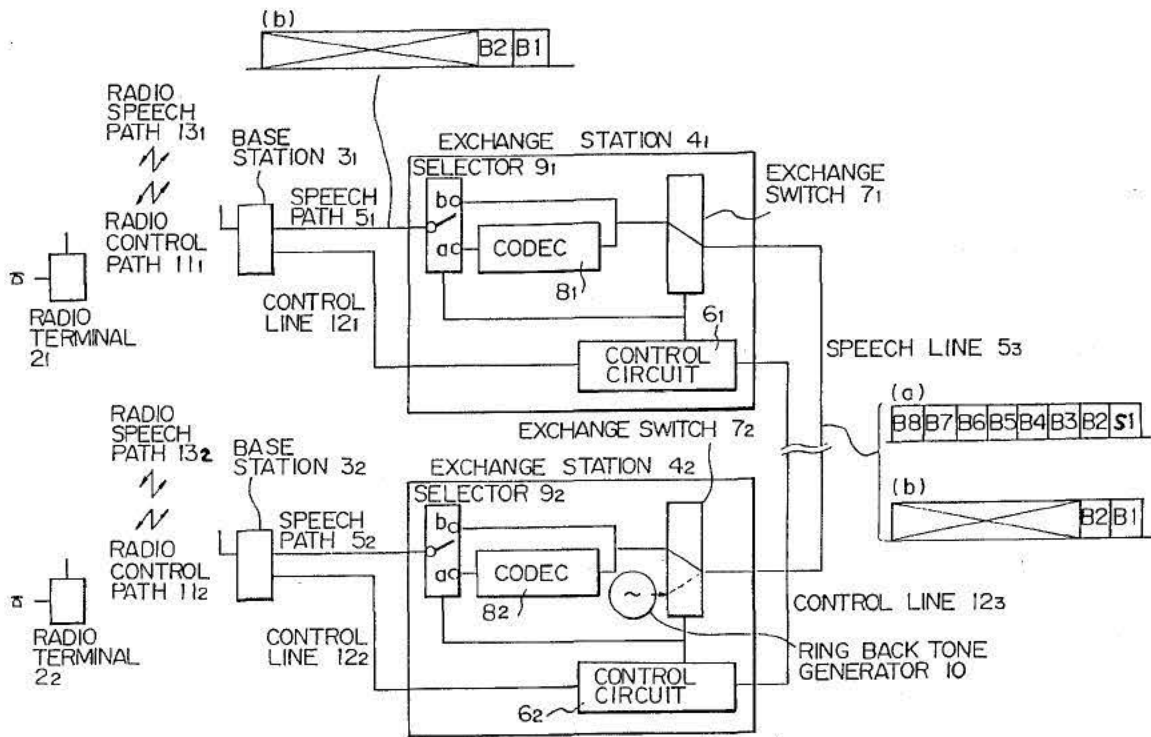


Fig. 1

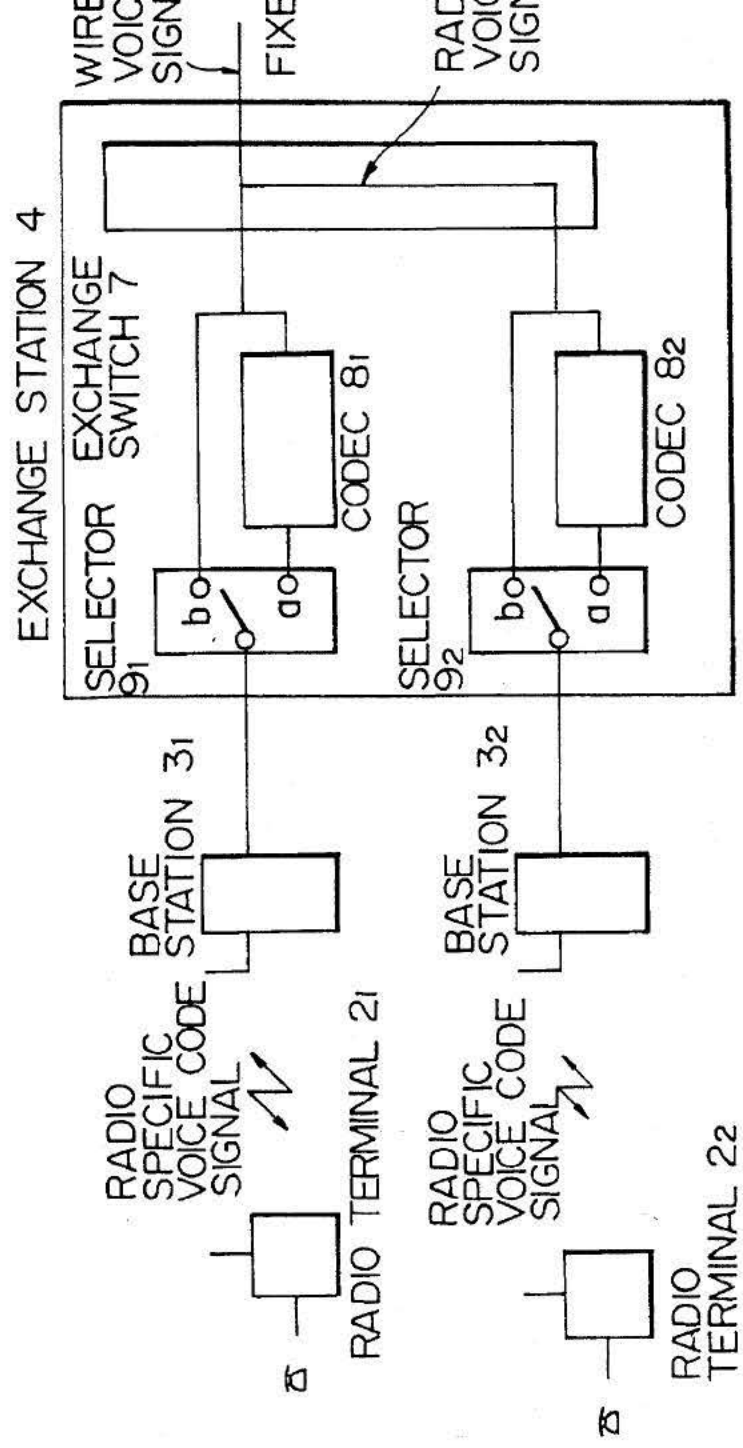


Fig. 2

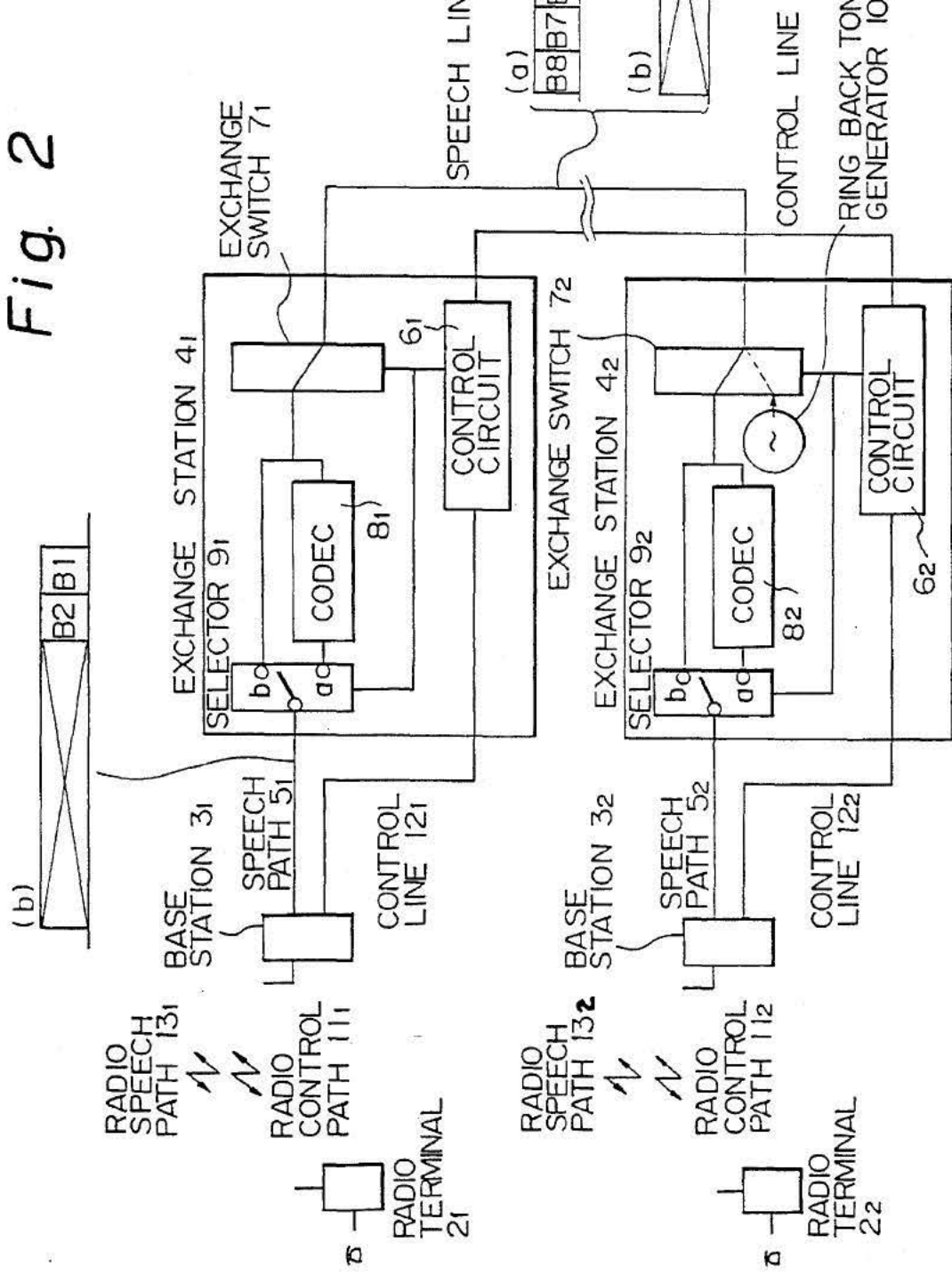


Fig. 3

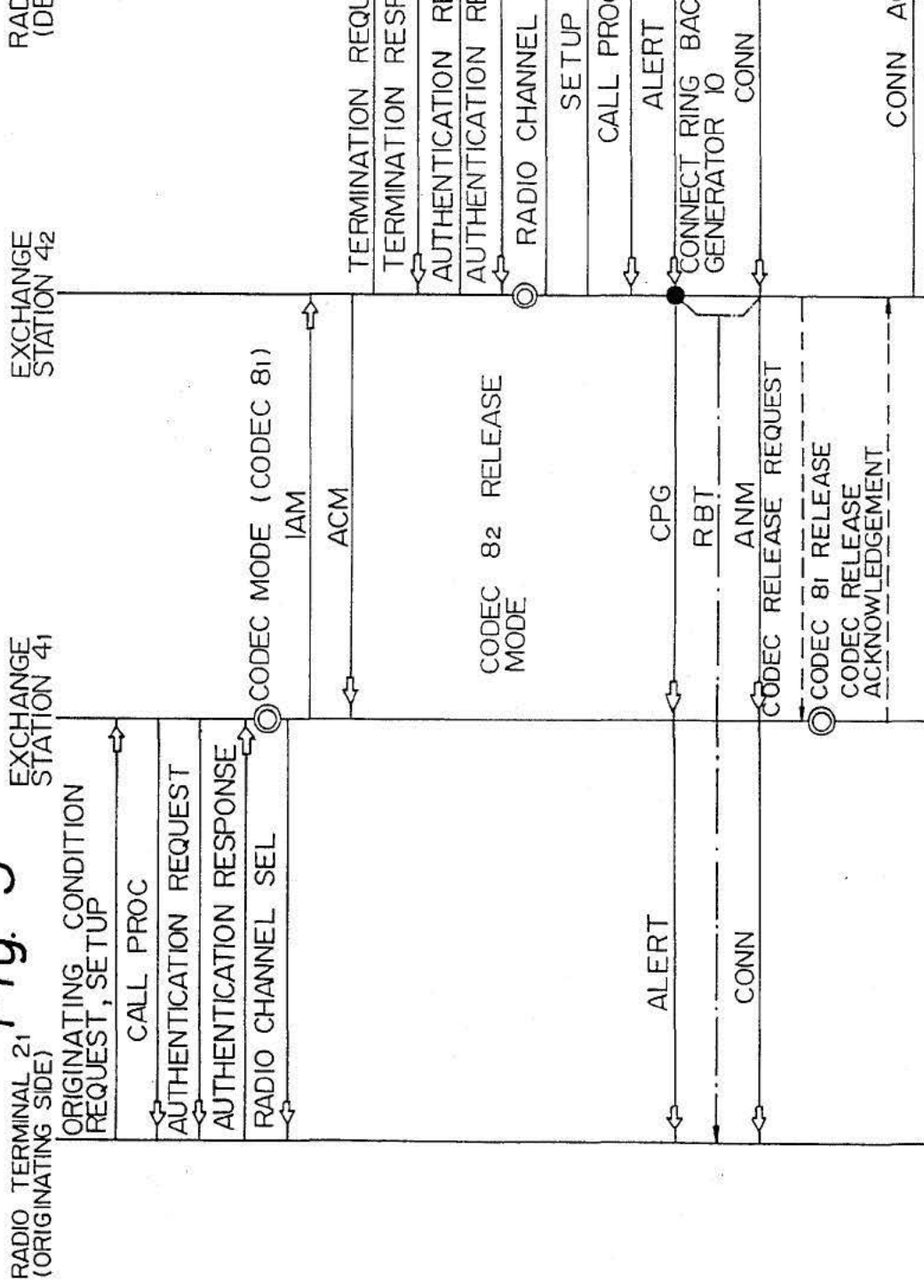
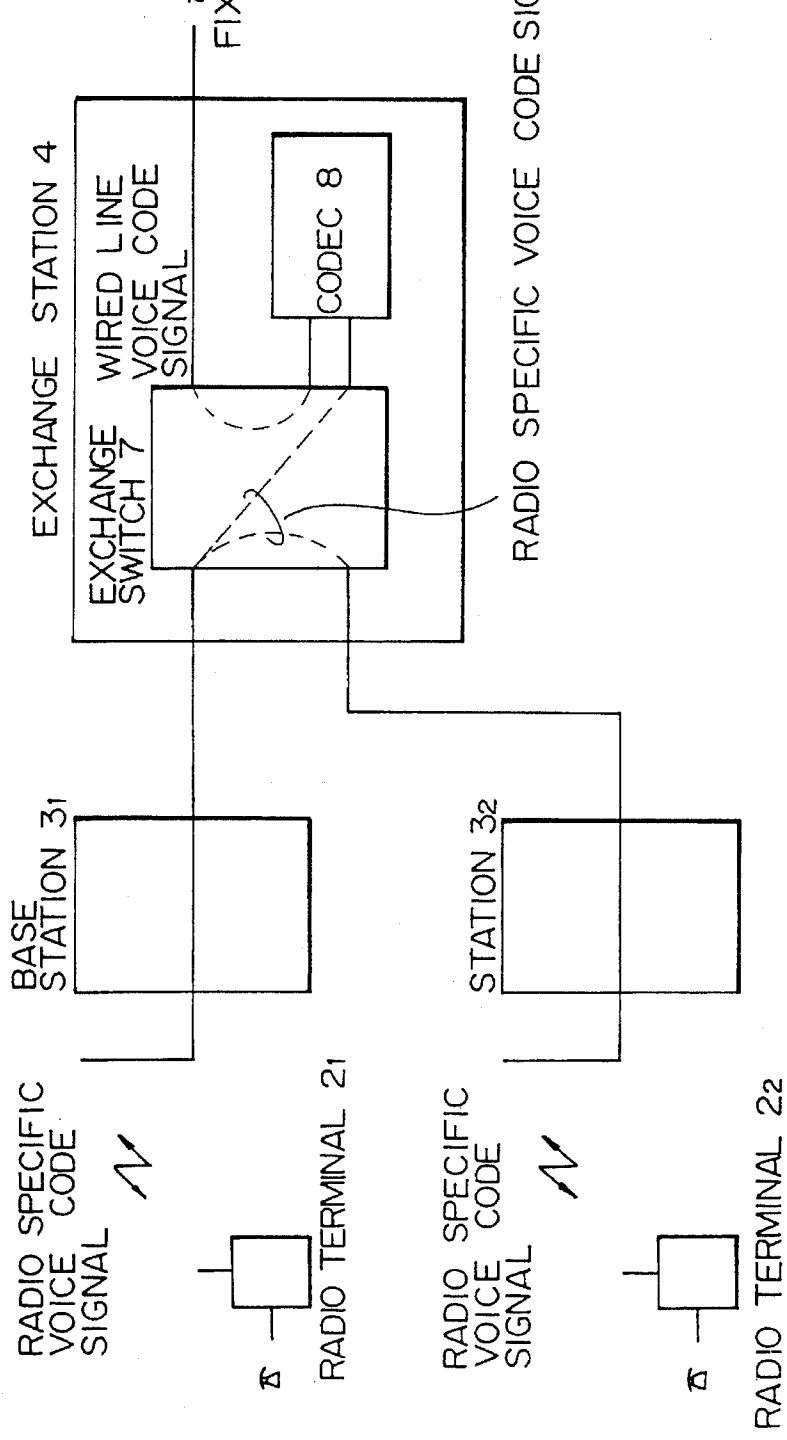


Fig. 4



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