

- [54] **HIGH DATA RATE SIMULCAST COMMUNICATION SYSTEM**
- [75] Inventors: **Leon Jasinski**, Ft. Lauderdale; **Francis R. Steel**, deceased, late of Parkland; **Lynne A. Steel**, legal representative, Highland Beach, all of Fla.
- [73] Assignee: **Motorola, Inc.**, Schaumburg, Ill.
- [21] Appl. No.: **425,662**
- [22] Filed: **Oct. 23, 1989**

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*Assistant Examiner*—Eric O. Pudpud  
*Attorney, Agent, or Firm*—Philip P. Macnak; Vincent B. Ingrassia

[57] **ABSTRACT**

A system for transmitting long text messages includes a plurality of transmission cells defining different geographical areas, each having a transmitter for simulcast address transmission at a first data bit rate and for transmitting the address and a message at a second data bit rate higher than the first data bit rate. A paging transceiver generates and transmits an acknowledgment signal in response to receiving a transmitted address at the first data bit rate. Receivers located within each of the transmission cells receive the transmitted acknowledgment signal. An apparatus responsive to the received acknowledgment signal identifies the transmission cell in which the paging transceiver is located effecting the selection of the transmitter in the transmission cell in which the paging transceiver is located to transmit the address and message at the second data bit rate higher than the first data bit rate.

**Related U.S. Application Data**

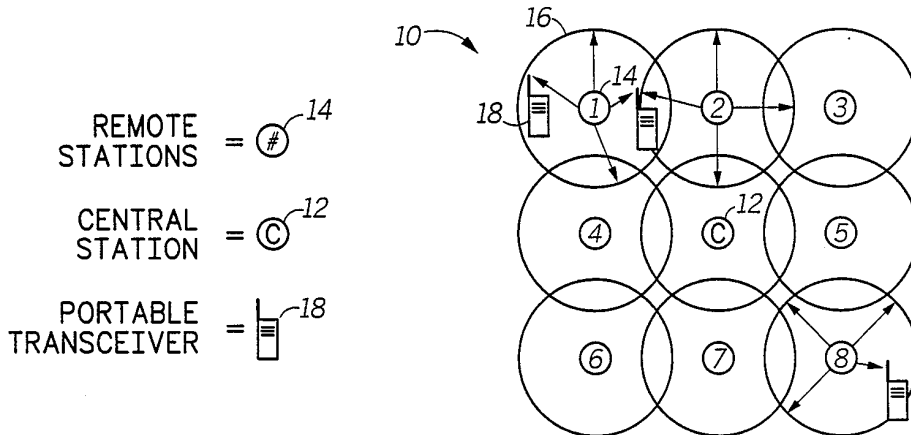
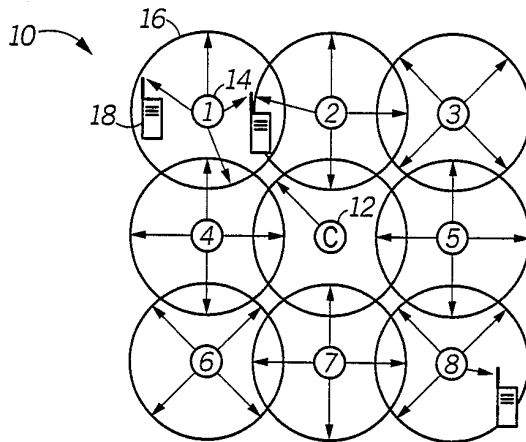
- [62] Division of Ser. No. 257,904, Oct. 13, 1988, Pat. No. 4,918,437.
- [51] Int. Cl.<sup>5</sup> ..... **H04Q 7/00**
- [52] U.S. Cl. .... **340/825.44; 379/59; 379/60; 455/33**
- [58] Field of Search ..... 340/311.1, 825.44, 825.47, 340/825.49, 825.52; 379/56, 57, 58, 69, 60; 455/33, 34, 31; 370/79, 84

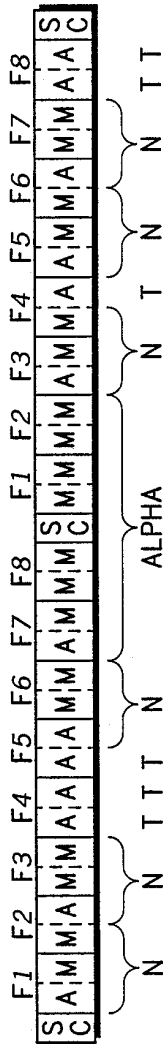
**References Cited**

**U.S. PATENT DOCUMENTS**

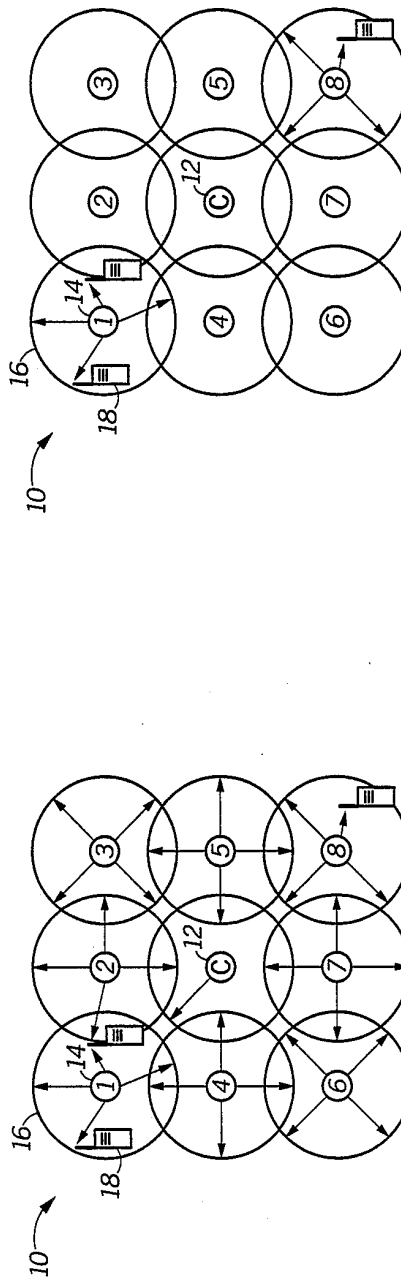
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**9 Claims, 16 Drawing Sheets**





**FIG. 1**  
-PRIOR ART-



**FIG. 2B**

**FIG. 2A**

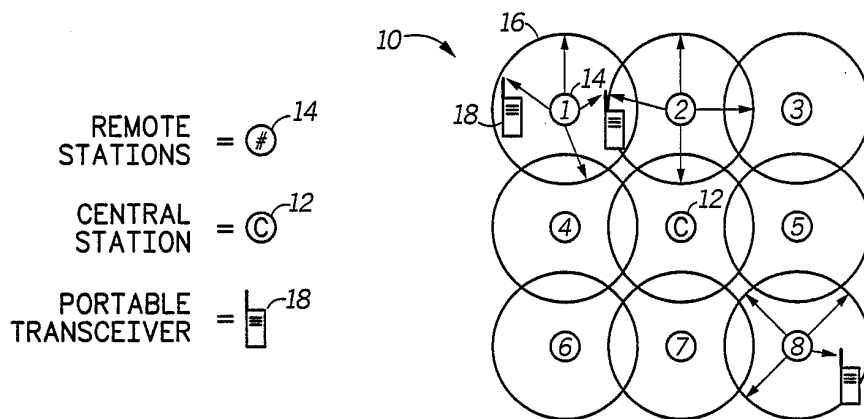


FIG. 2C

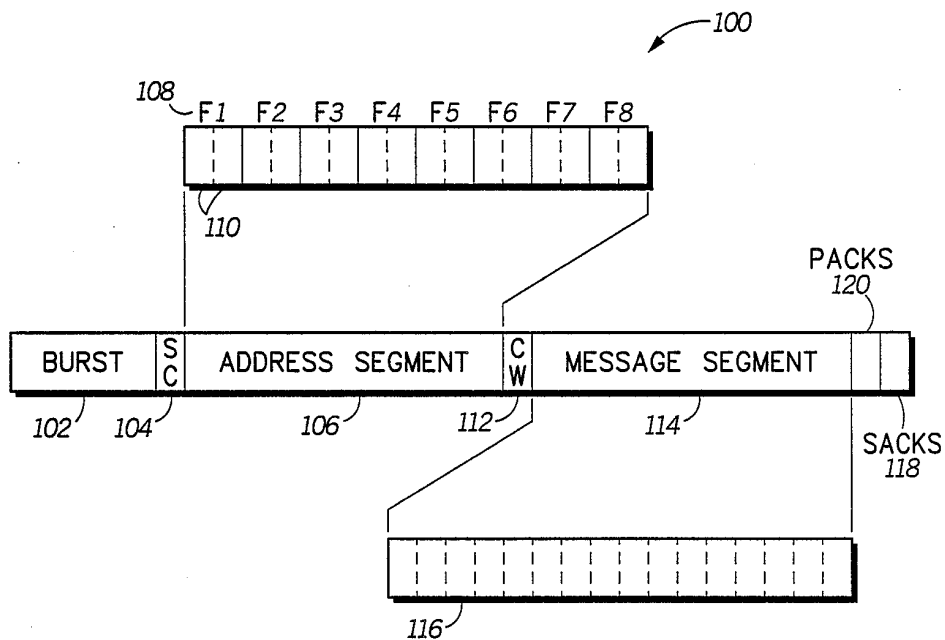


FIG. 3

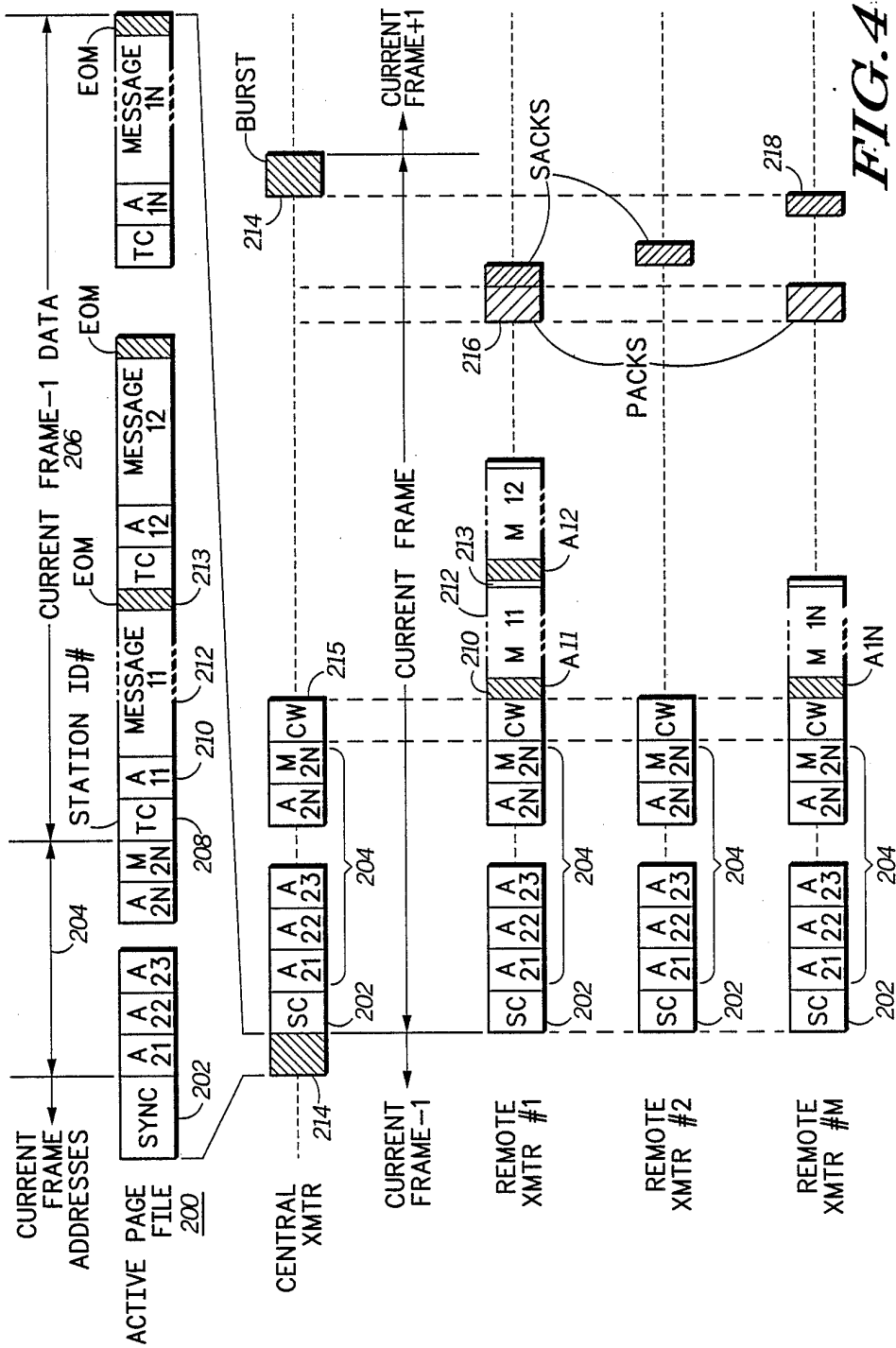


FIG. 4

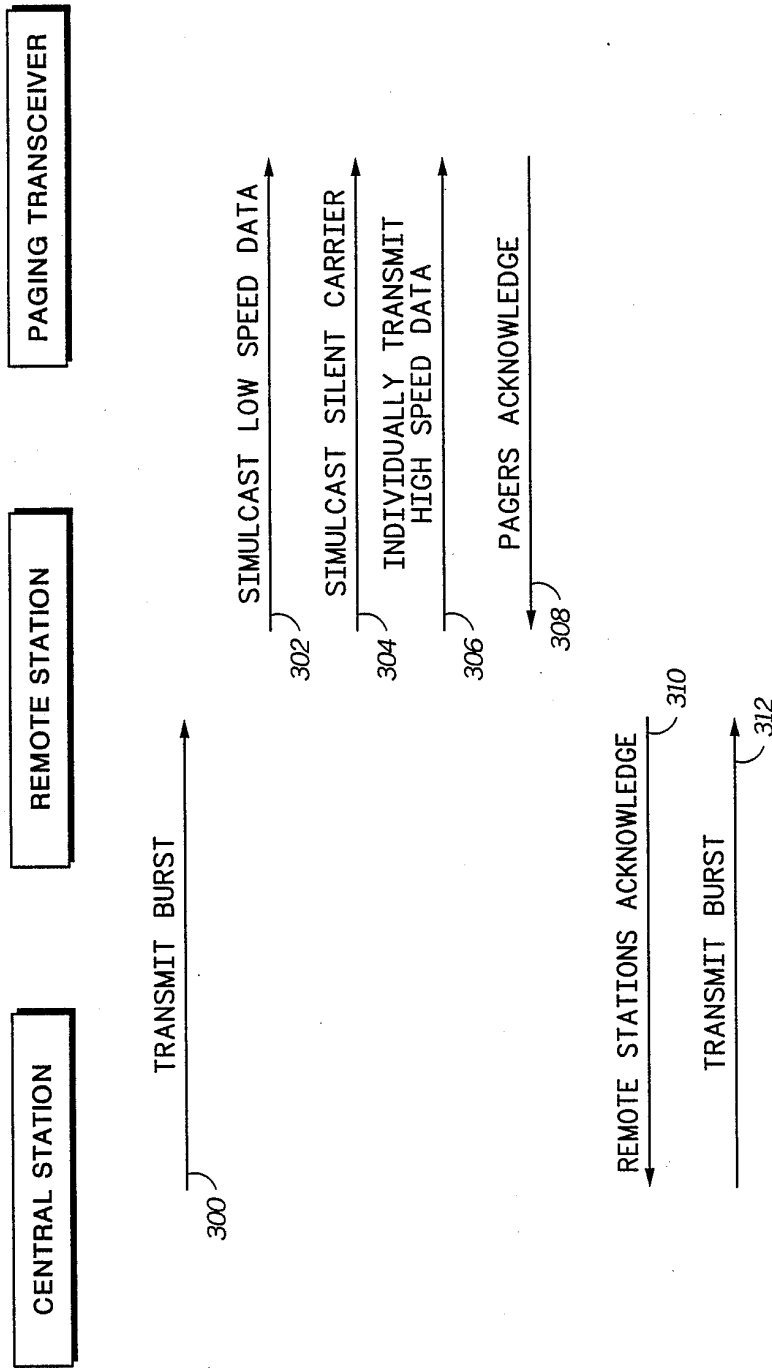


FIG. 5

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