



US005521926A

# United States Patent [19]

[11] Patent Number: **5,521,926**

Ayerst et al.

[45] Date of Patent: **May 28, 1996**

[54] **METHOD AND APPARATUS FOR IMPROVED MESSAGE RECEPTION AT A FIXED SYSTEM RECEIVER**

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### [57] ABSTRACT

[73] Assignee: **Motorola, Inc.**, Schaumburg, Ill.

A fixed system receiver (107), which includes a forward receiver (305), a reverse receiver (310), and a response timer (215), is for use in a radio communication system (100) having a forward radio channel and a reverse radio channel. A command is transmitted in a forward channel radio signal to a selective call transceiver. The forward receiver (305) is for receiving, demodulating, and decoding the command. The reverse receiver (310) is for receiving and demodulating the reverse channel radio signal. The response timer (215), which is coupled to the forward receiver (305) and the reverse receiver (310), is for determining a response period beginning substantially at a scheduled response time included in the command and having a duration which is substantially a designated length of the data unit included in the command, and for generating a control signal which enables the reverse receiver (310) during the response period.

[21] Appl. No.: **283,369**

[22] Filed: **Aug. 1, 1994**

[51] Int. Cl.<sup>6</sup> ..... **H04J 3/06**

[52] U.S. Cl. .... **370/953; 370/100.1; 455/51.1; 375/356**

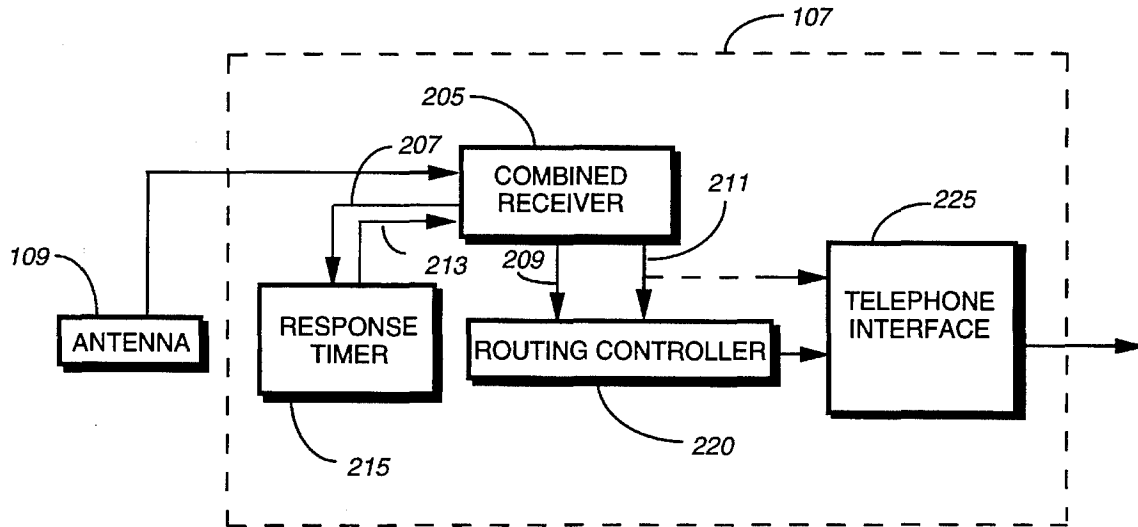
[58] **Field of Search** ..... 370/95.1, 95.2, 370/95.3, 94.1, 110.1, 94.2, 85.2, 85.7, 85.8, 85.1, 100.1; 455/33.1, 34.1, 34.2, 54.1, 54.2, 51.1; 340/825.07, 825.08; 375/356

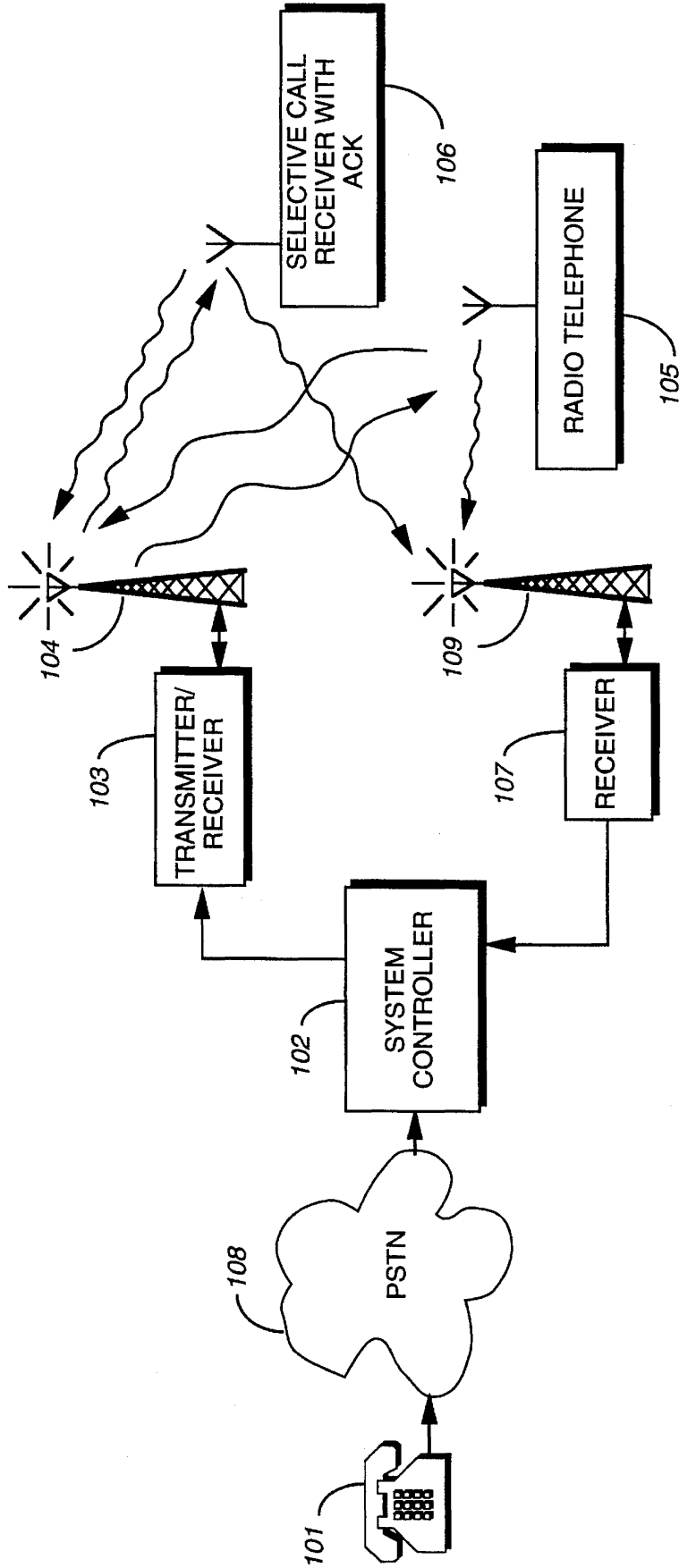
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**21 Claims, 9 Drawing Sheets**





**100** FIG. 1

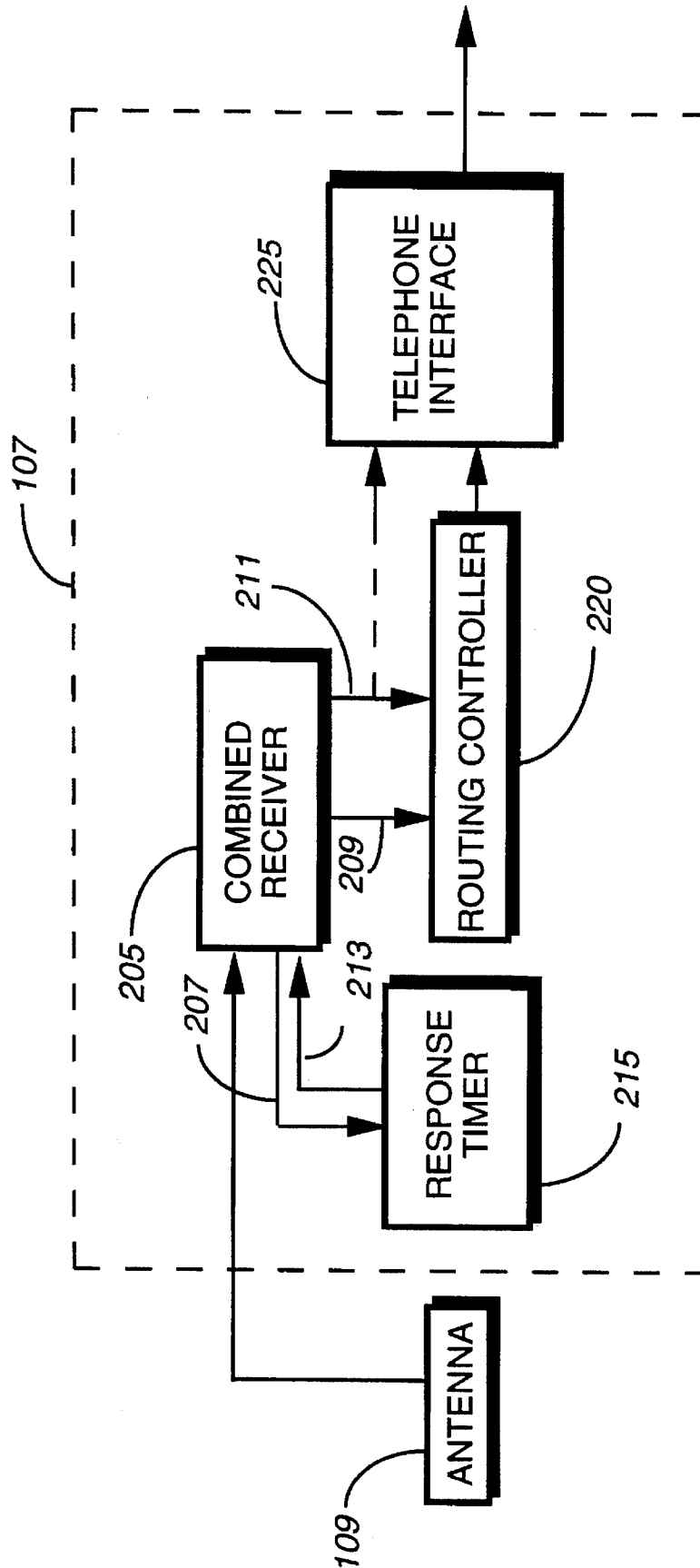


FIG. 2

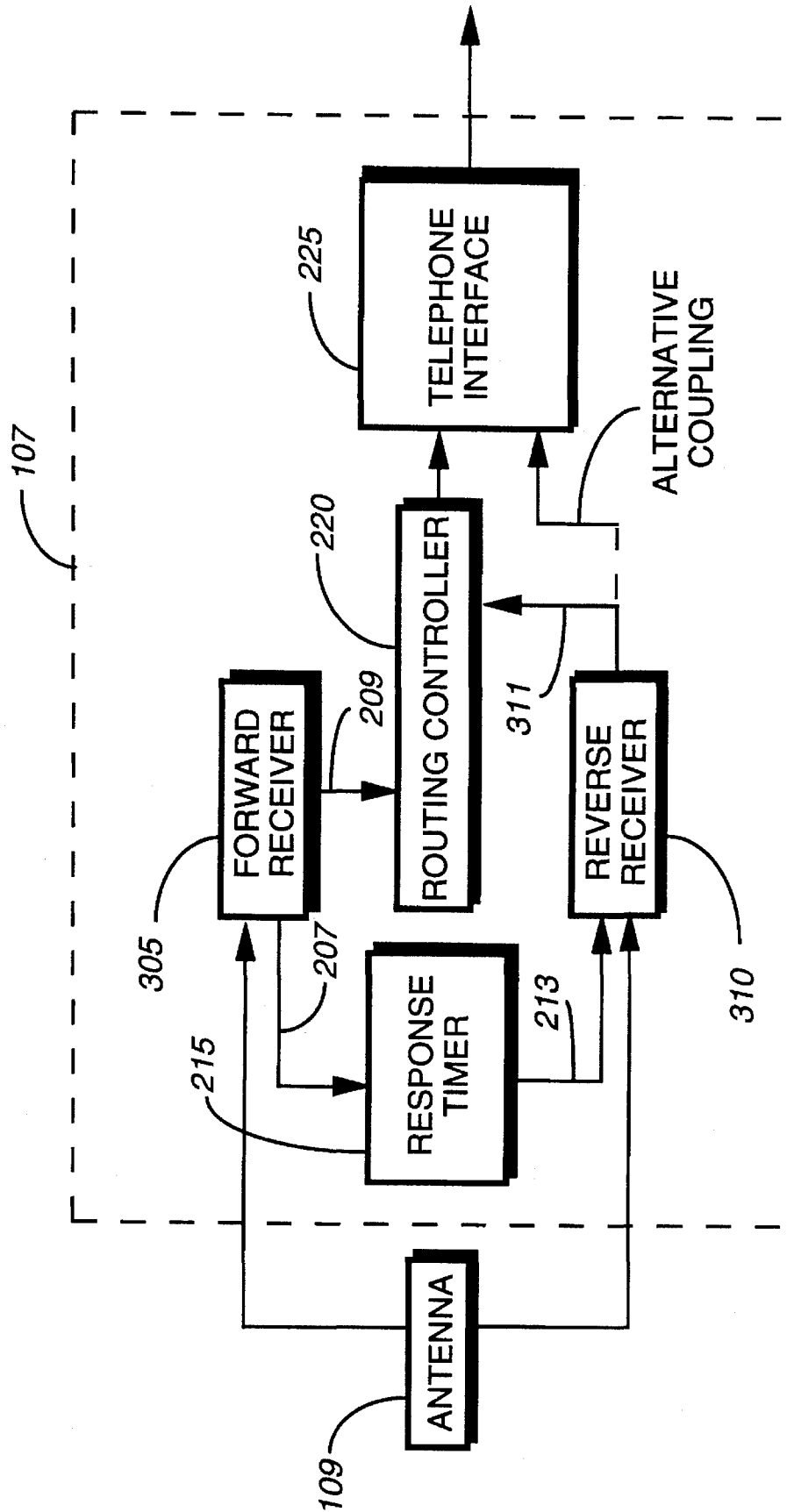
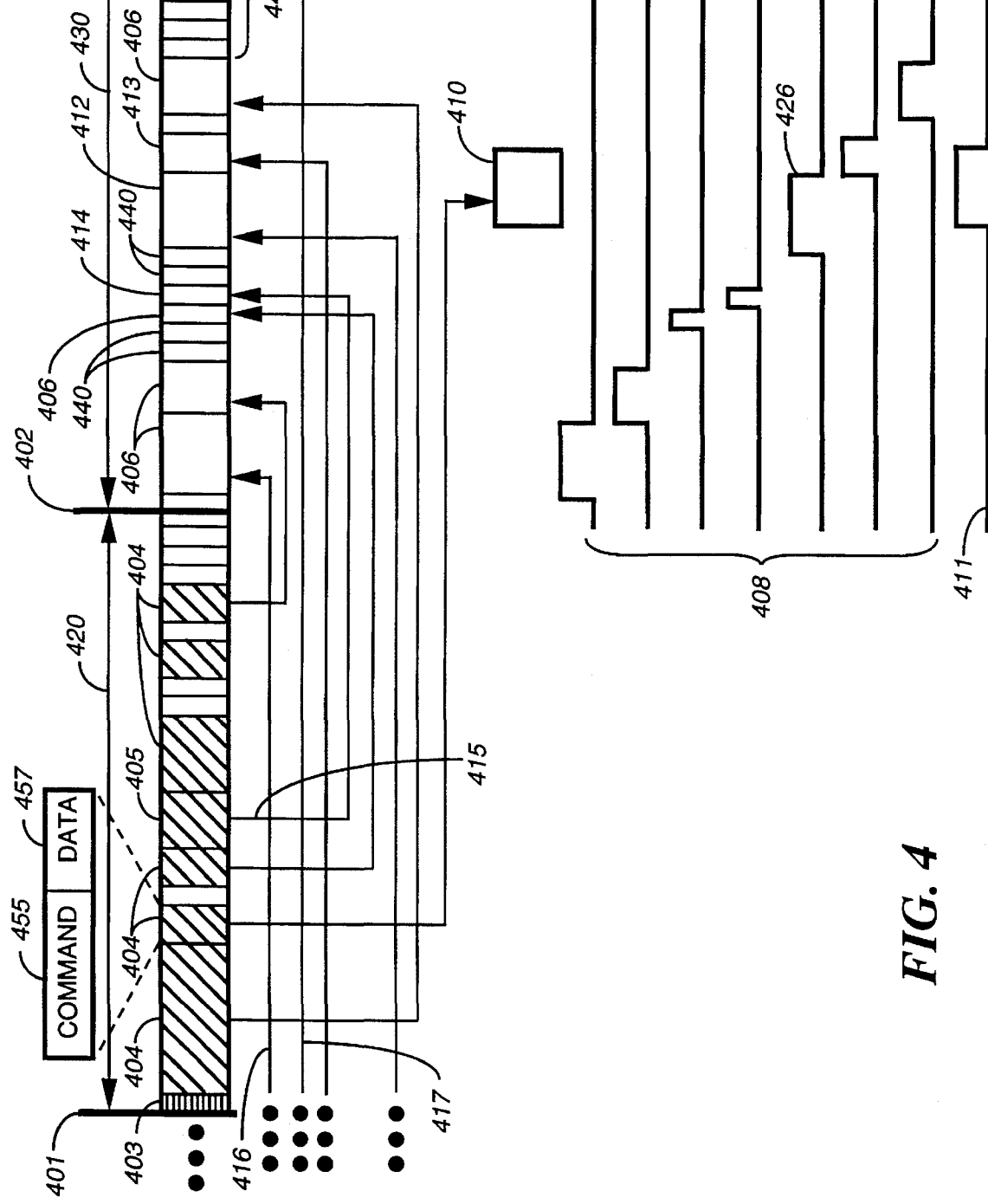


FIG. 3



**FIG. 4**

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