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United States Patent [19]

Ayerst et al.

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[45] Date of Patent: **Jul. 1, 1997**

[54] **METHOD AND APPARATUS FOR ORGANIZING AND RECOVERING INFORMATION COMMUNICATED IN A RADIO COMMUNICATION SYSTEM**

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[57] ABSTRACT

[21] Appl. No.: **404,698**

A system controller (102) generates and transmits a radio signal having long messages in data frames (370), and short and long messages in control frames (360). A set of selective call radio addresses is included at the beginning of a control frame (360), each selective call radio address including a subvector which indicates the starting position of a short message or a vector packet within the control frame (360). Vector packets indicate starting positions of long messages within the control frame (360), within other control frames (360), and within data frames (370). A selective call radio (106) receives the radio signal and recovers and processes the short and long messages, using the subvectors and vectors to identify the positions of the short and long messages.

[22] Filed: **Mar. 15, 1995**

[51] Int. Cl.⁶ **H04J 3/26**

[52] U.S. Cl. **370/311; 340/825.47; 455/343; 370/312; 370/432; 370/468; 370/471; 370/522**

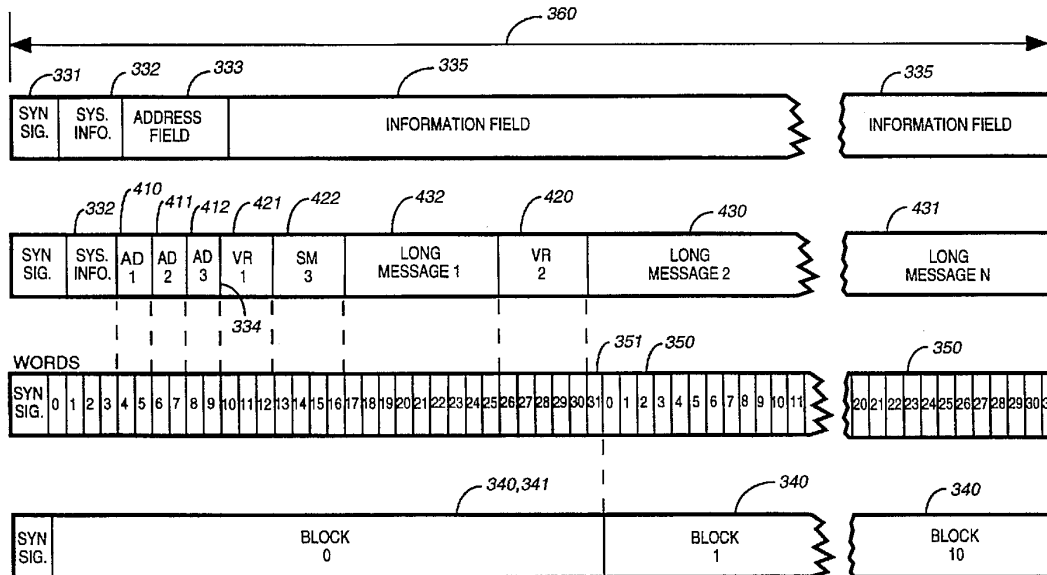
[58] Field of Search **370/83, 82, 92, 370/93, 94.1, 99, 110.1, 110.4, 13, 17; 340/825.47, 825.48, 825.52, 825.53, 825.44; 455/343**

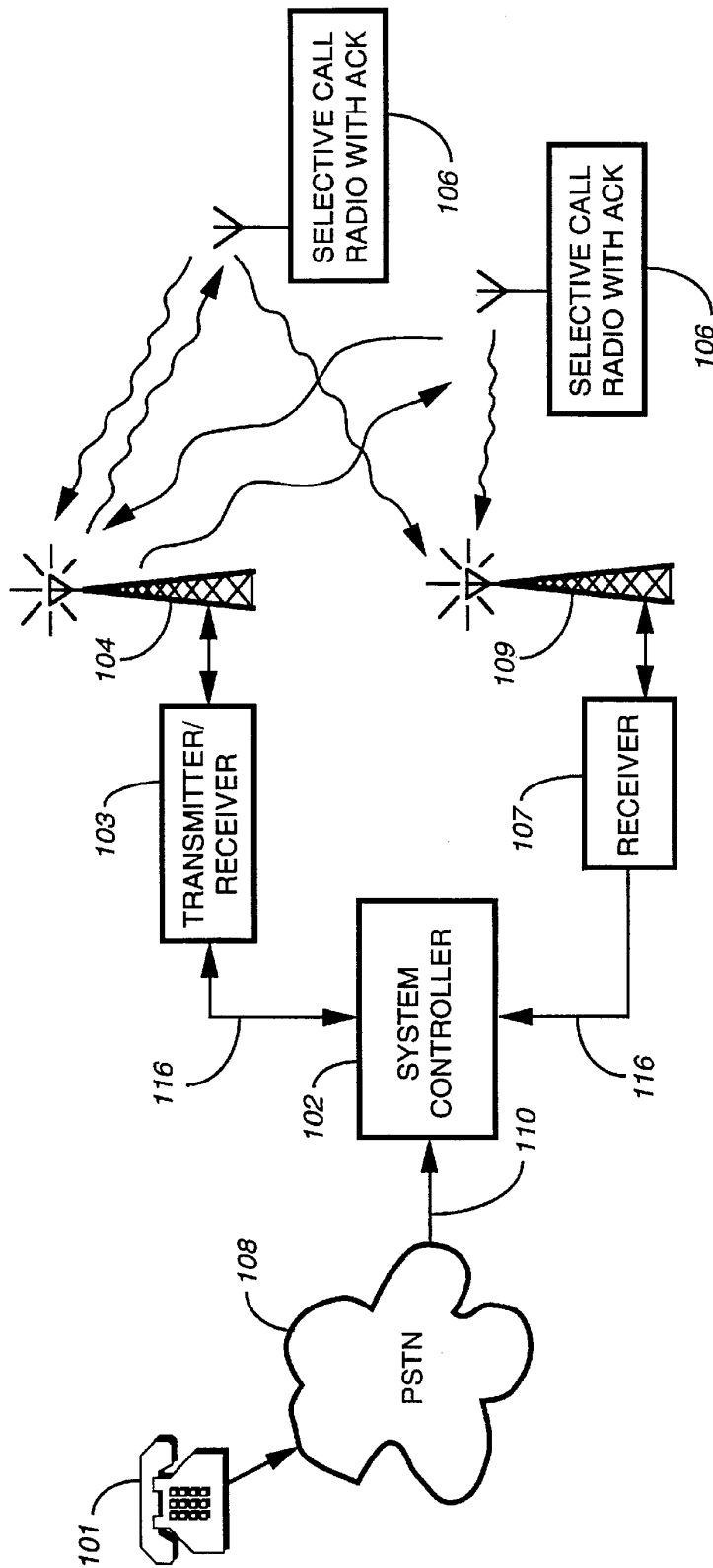
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6 Claims, 9 Drawing Sheets





100

FIG. 1

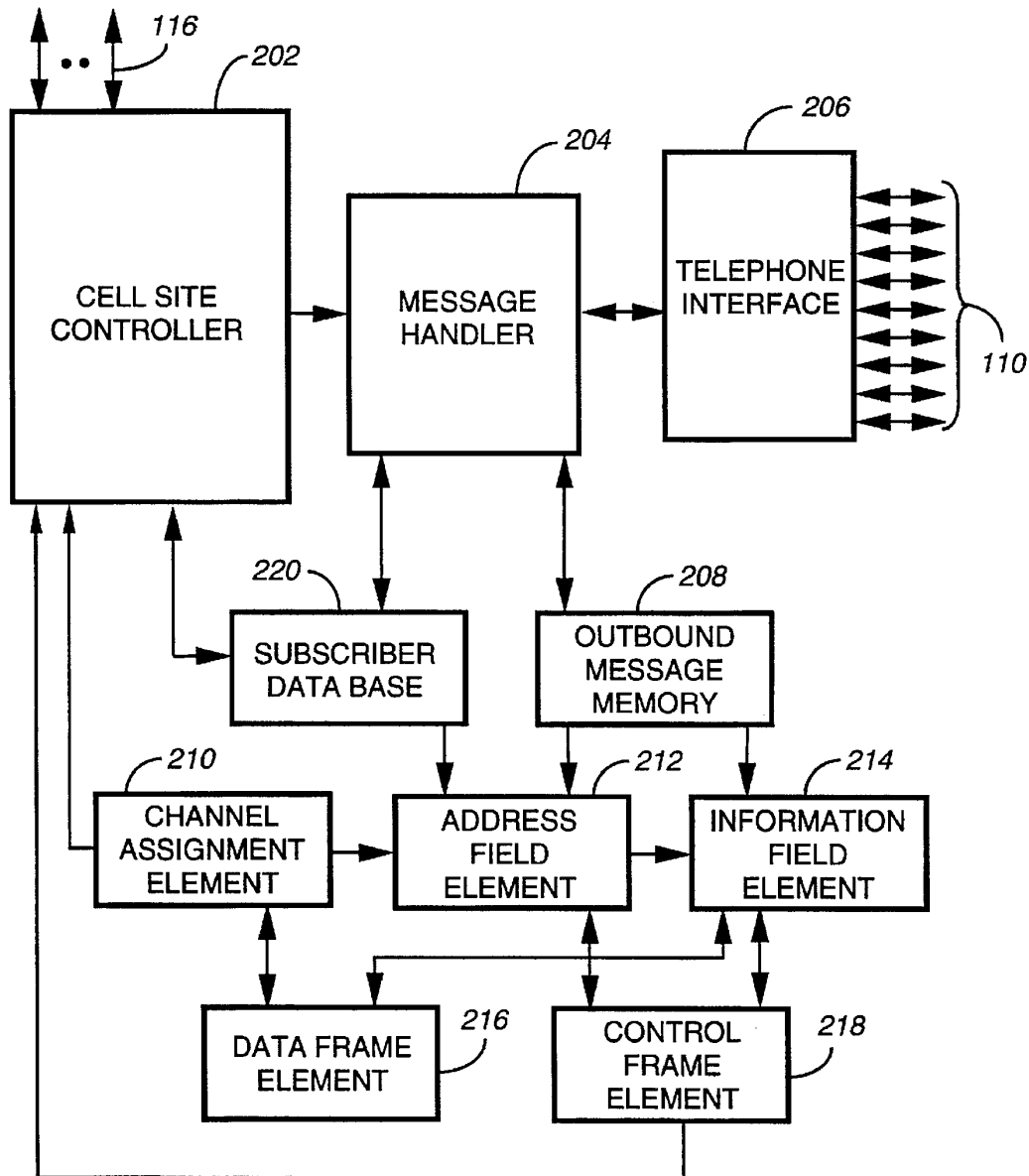


FIG. 2 ¹⁰²

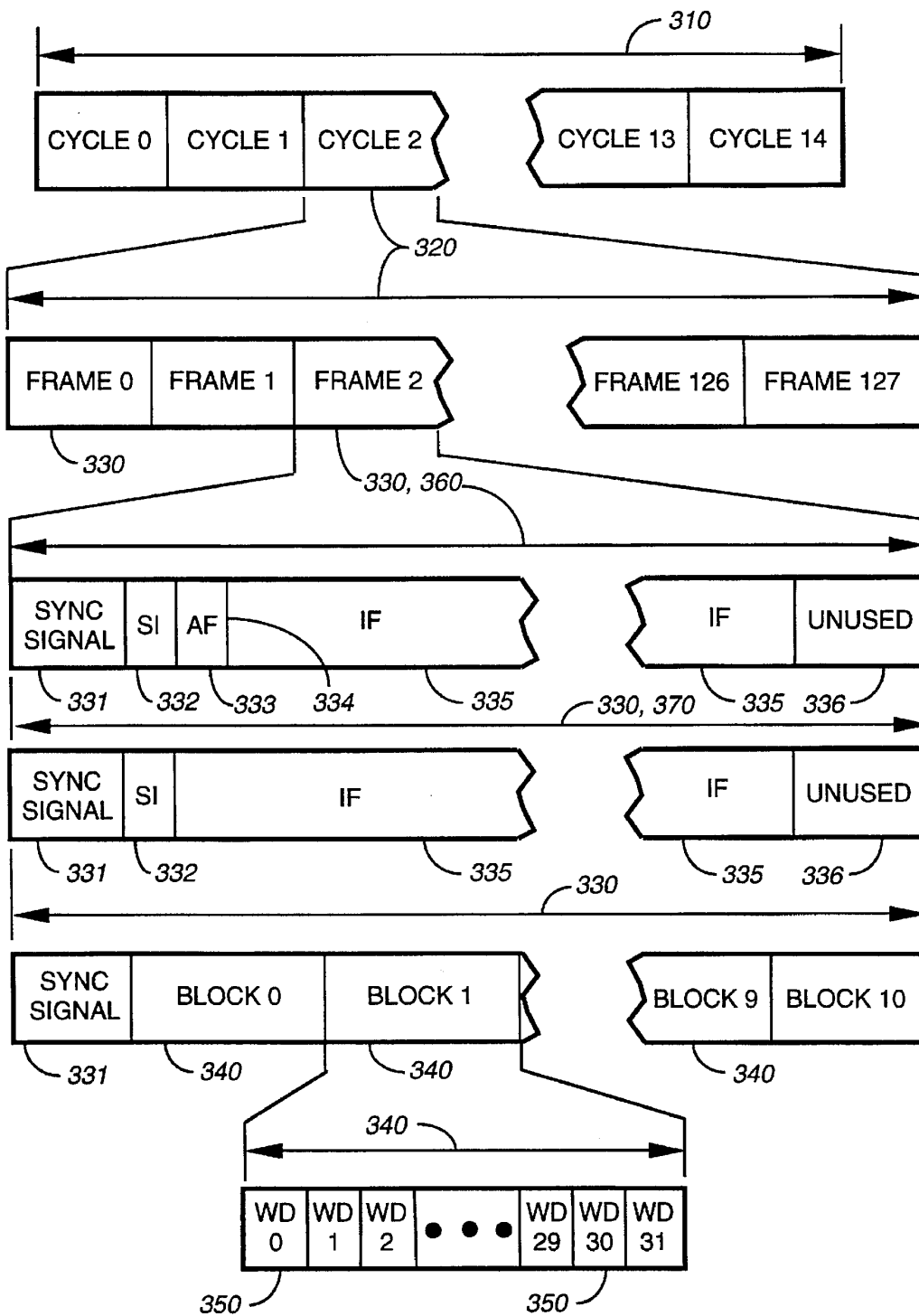
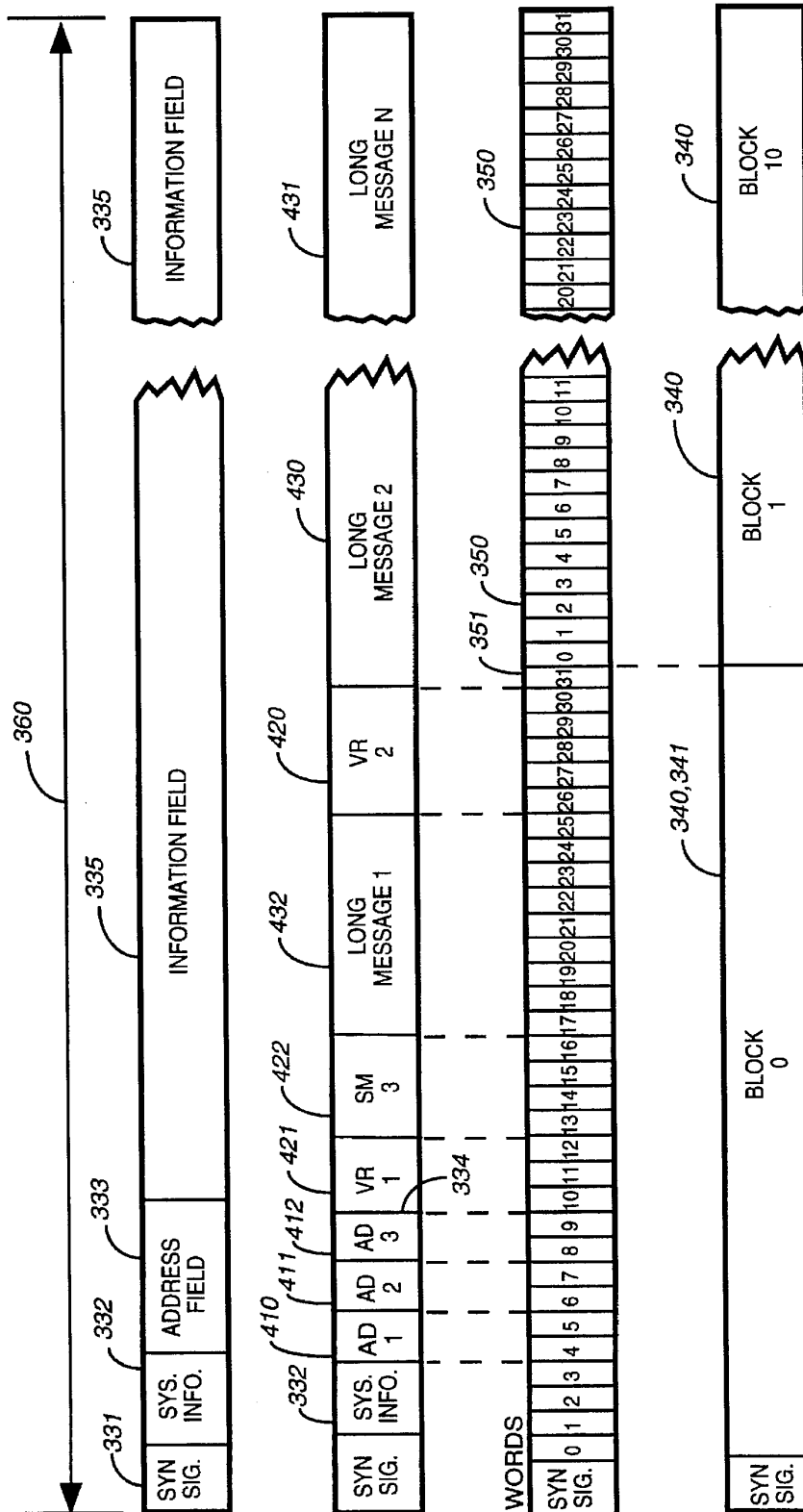


FIG. 3



360

FIG. 4

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