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United States Patent [19]

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Kuznicki et al.

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[54] **PAGING SYSTEM USING MESSAGE FRAGMENTATION TO REDISTRIBUTE TRAFFIC**

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88-05248 7/1988 World Int. Prop. O. .

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

[21] Appl. No.: **980,084**

[22] Filed: **Nov. 23, 1992**

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European Telecommunication Standard, ETS 300 133 Jul. 4, 1992, "Paging Systems (PS); European Radio Message System (ERMES) Part 4: Aie interface specification", reference: DE/PS-2001-2004.

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Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 891,503, May 29, 1992.

[51] Int. Cl.⁵ **H04J 3/24; H04Q 7/00**

[52] U.S. Cl. **370/94.1; 370/95.1; 370/110.1; 340/825.07; 340/825.44; 379/57**

[58] Field of Search **370/79, 82, 84, 94.1, 370/94.2, 95.1, 95.2, 95.3, 110.1; 340/825.06, 825.07, 825.44, 825.47, 825.48, 825.52; 379/57, 58, 59, 63; 455/38.1, 38.5**

[57] ABSTRACT

A selective call receiver (106) receives one or more message packets of a transmitted fragmented message, where each of the one or more message packets includes an address (1605) and message data (1610), and the message data (1610) includes an indication (1702) of whether more message packets are to be received for the fragmented message. The selective call receiver (106) receives an address of each message packet, and then correlates (2908) the address to one or more predetermined addresses. After a successful correlation (2908), the selective call receiver (106) decodes the message data (1610) of each message packet, and then successively stores (2928, 2936, 2942) the decoded message data (1610) to reconstruct the fragmented message. The selective call receiver (106) determines that the fragmented message is completely reconstructed after detection (2918) in the decoded message data (1610) an indication (1702) that no more message packets are to be received for the fragmented message.

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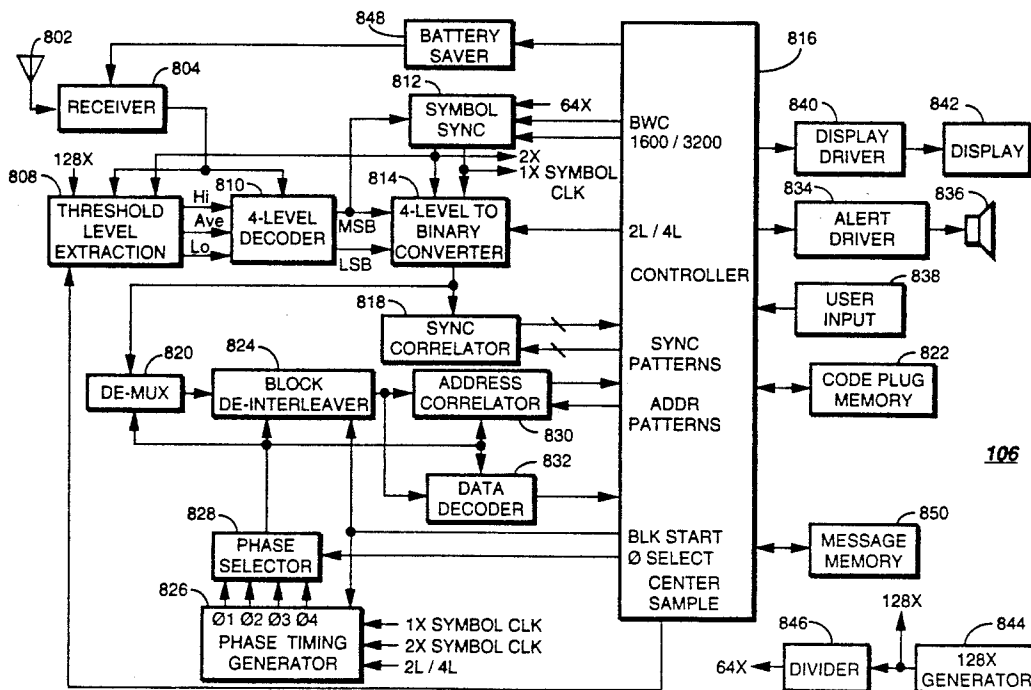
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22 Claims, 22 Drawing Sheets



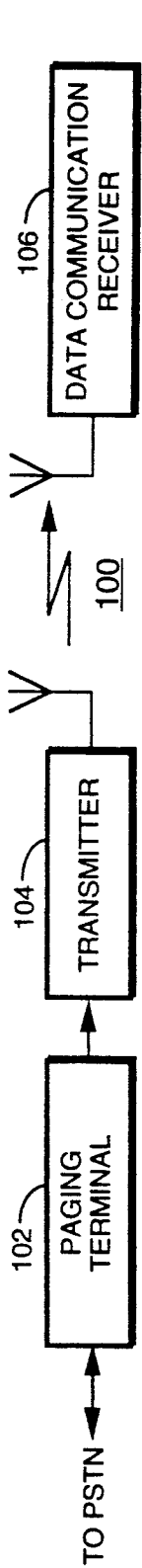


FIG. 1

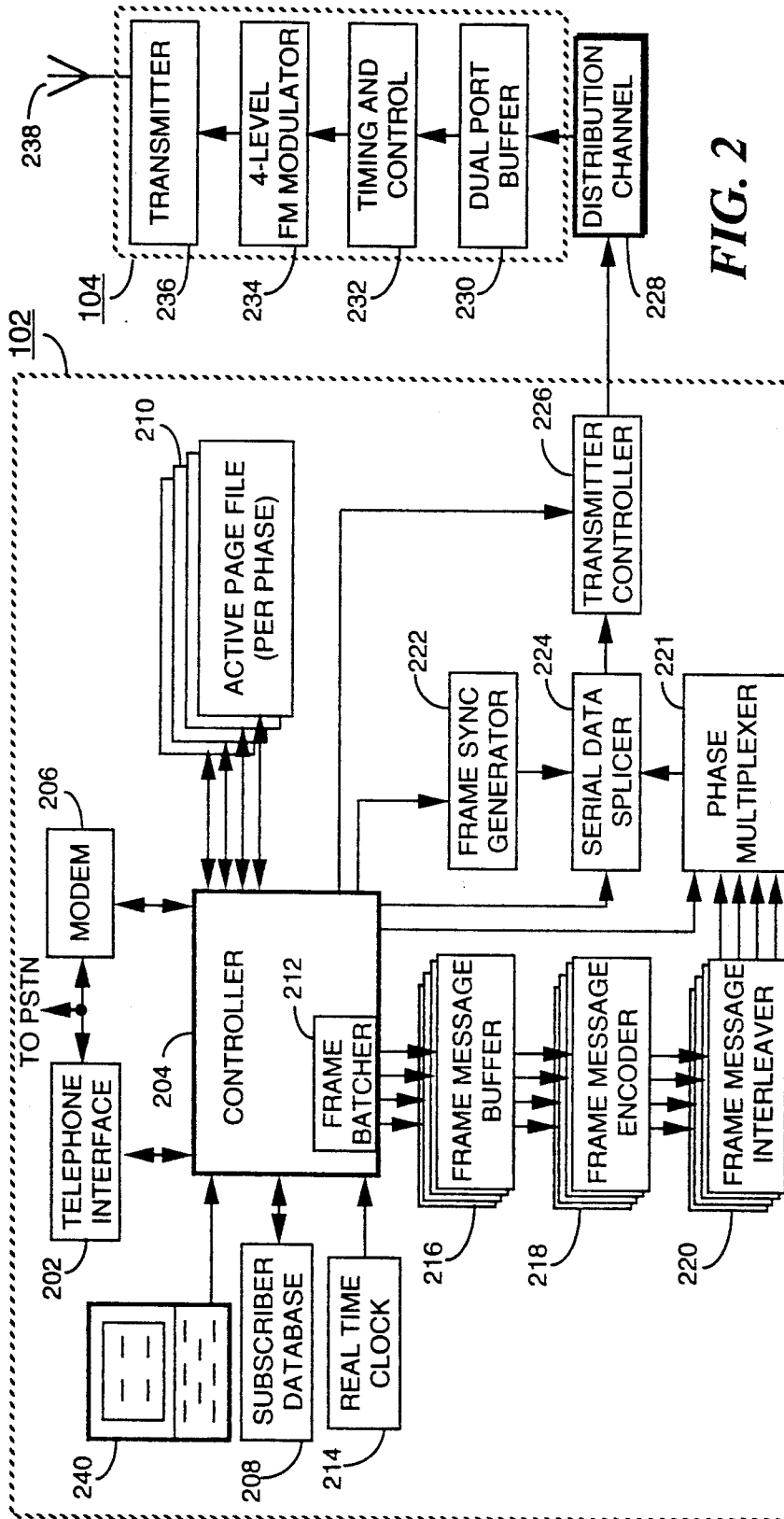


FIG. 2

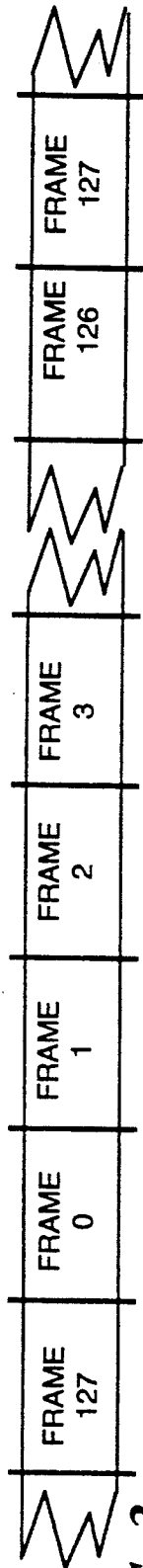


FIG. 3

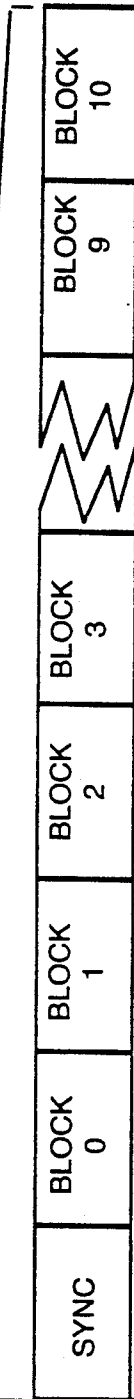


FIG. 4

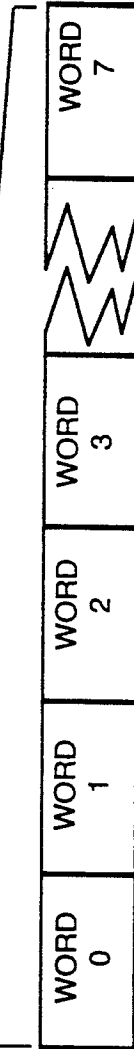


FIG. 5



FIG. 6

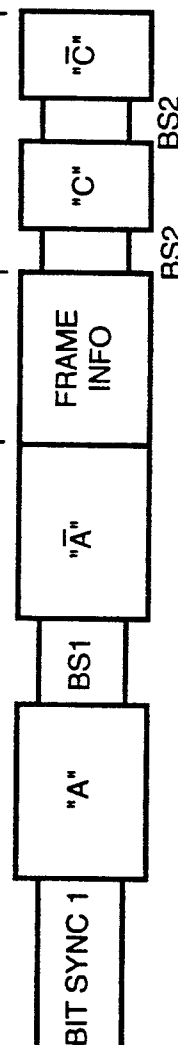


FIG. 7

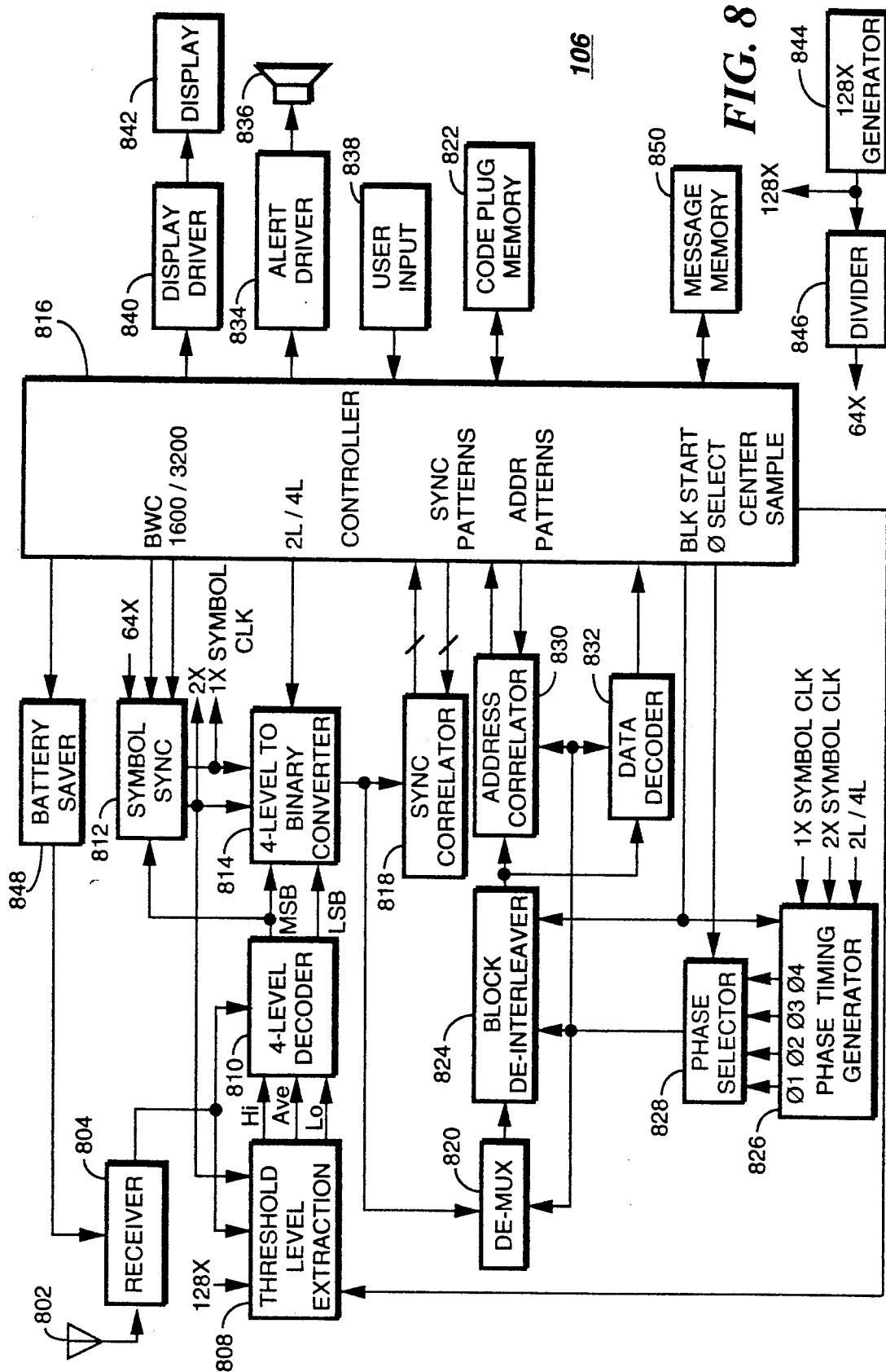


FIG. 8

106

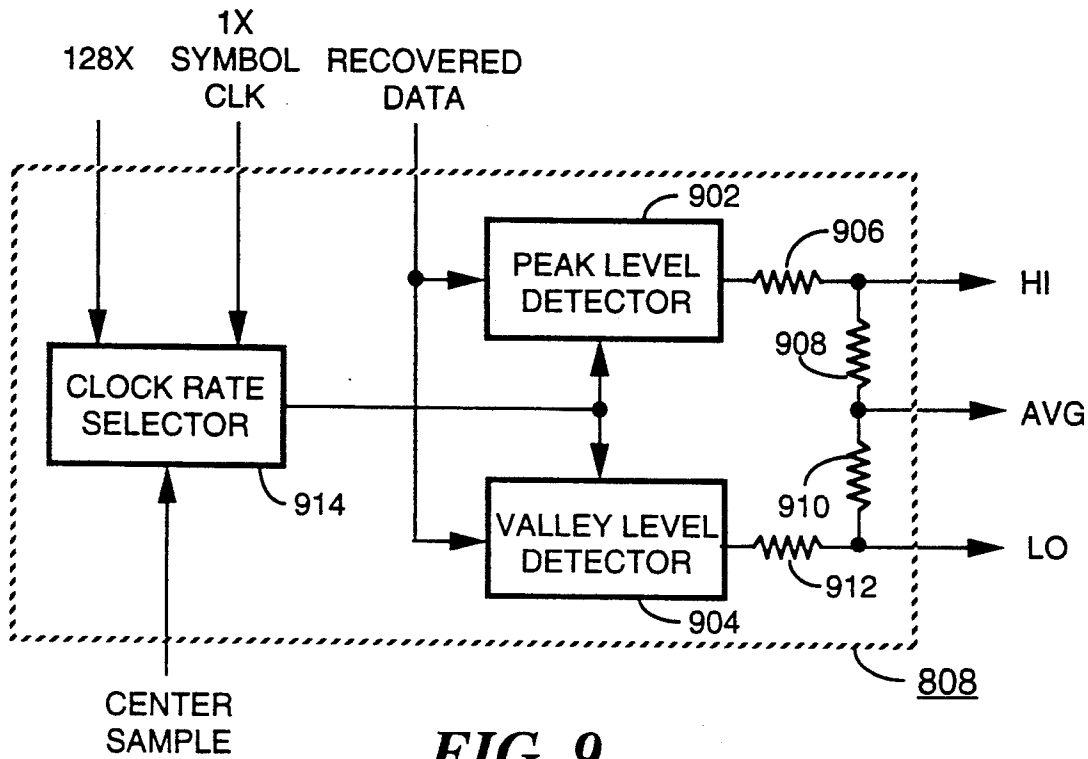


FIG. 9

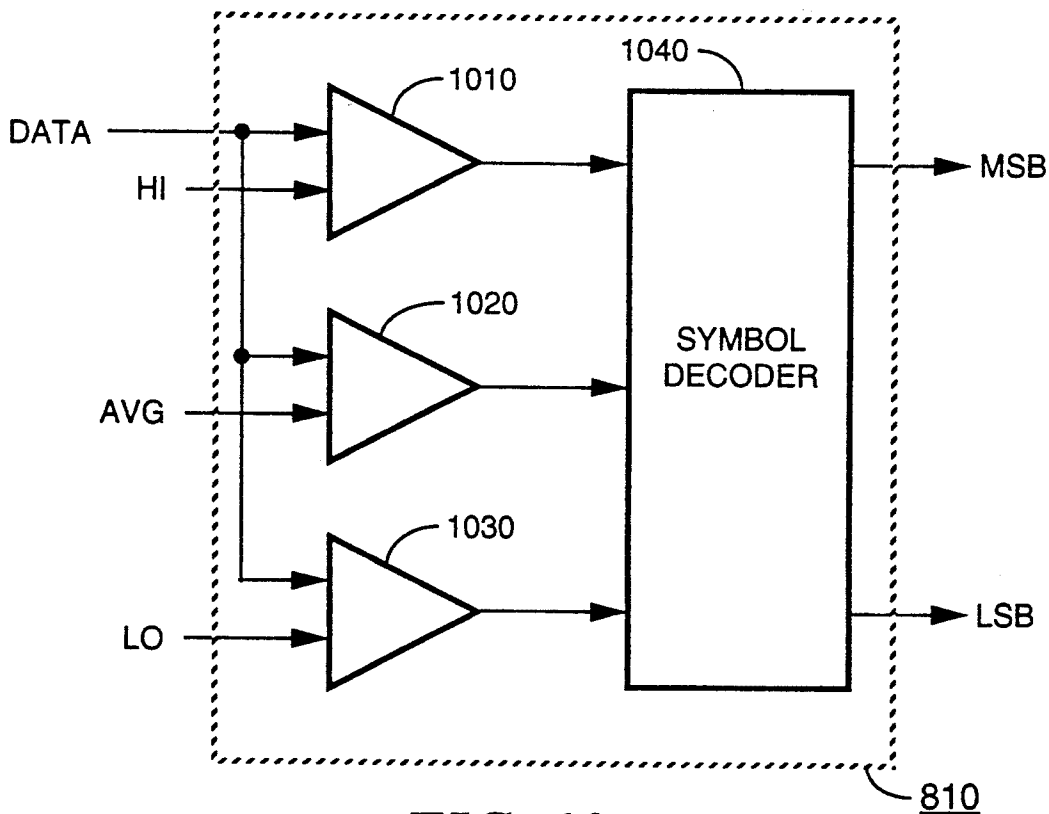


FIG. 10

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