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# United States Patent [19]

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Siwiak et al.

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## [54] DUAL MODE RECEIVER HAVING BATTERY SAVING CAPABILITY

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

[21] Appl. No.: **956,562**

[22] Filed: **Oct. 5, 1992**

### Related U.S. Application Data

[63] Continuation of Ser. No. 633,585, Dec. 24, 1990, abandoned.

[51] Int. Cl.<sup>5</sup> ..... **H04B 7/00**

[52] U.S. Cl. .... **340/825.44; 340/311.1; 340/825.48**

[58] Field of Search ..... **340/311.1, 825.44, 825.47, 340/825.48; 375/5; 455/38.1, 38.3, 142, 143, 343, 33.4**

## [56] References Cited

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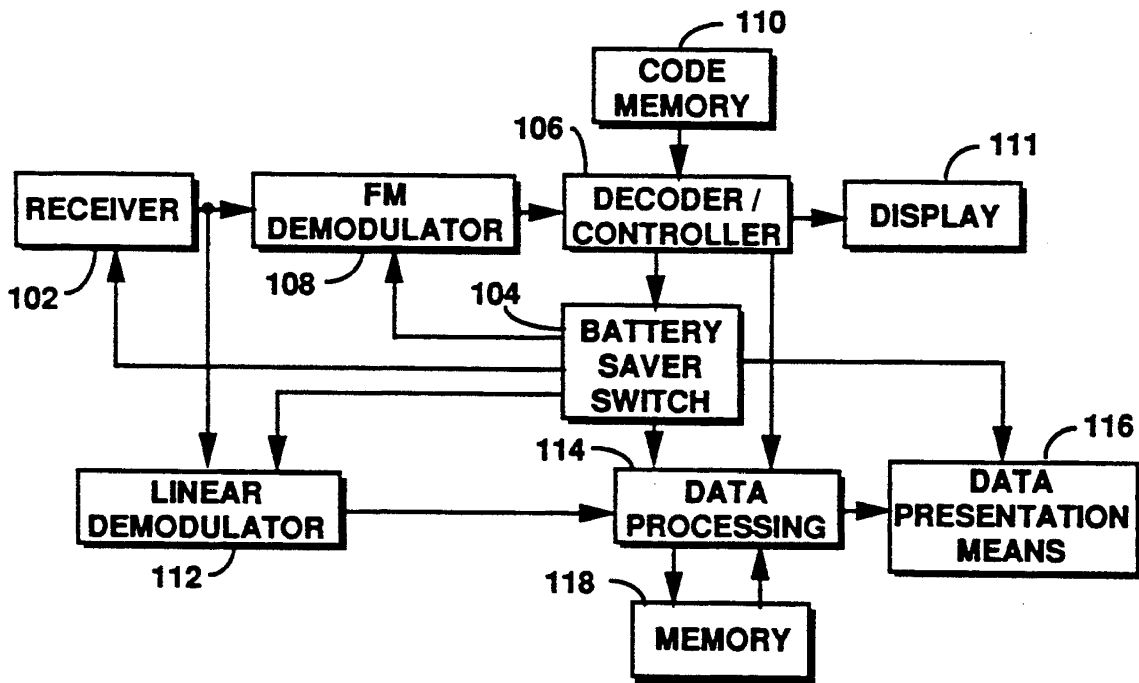
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*Assistant Examiner*—Dervis Magistre  
*Attorney, Agent, or Firm*—Philip P. Macnak; William E. Koch; Thomas G. Berry

## [57] ABSTRACT

A dual mode communication receiver a receiver for receiving information transmitted in a first and second modulation format on a common channel, a first demodulator for detecting information transmitted in the first modulation format, and a second demodulator, responsive to the information detected in the first modulation format, for detecting information transmitted in the second modulation format. A power conservation circuit is also provided for selectively supplying power to the first and second demodulators for enabling the detecting of the information transmitted in the first modulation format and the second modulation format, respectively.

35 Claims, 7 Drawing Sheets



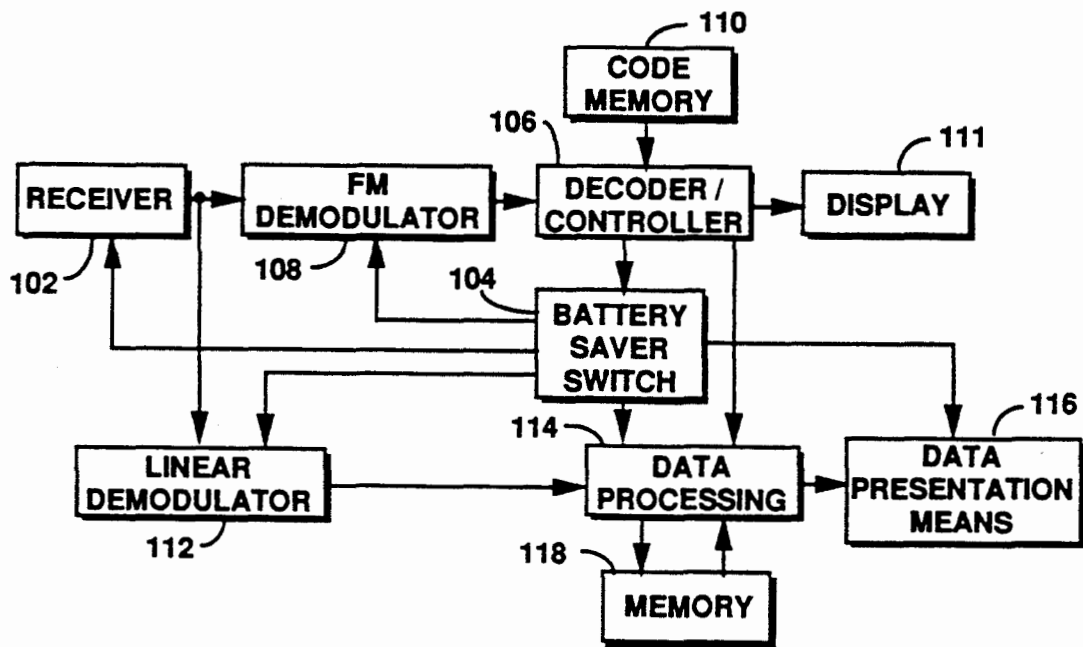


FIG. 1

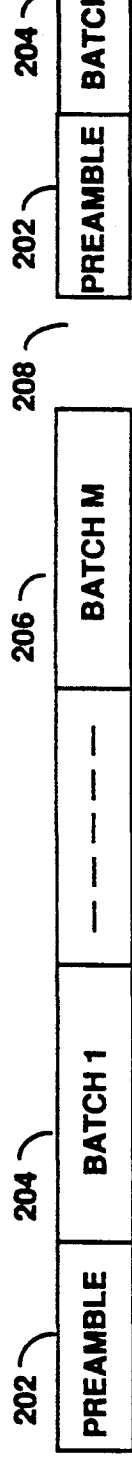


FIG. 2A

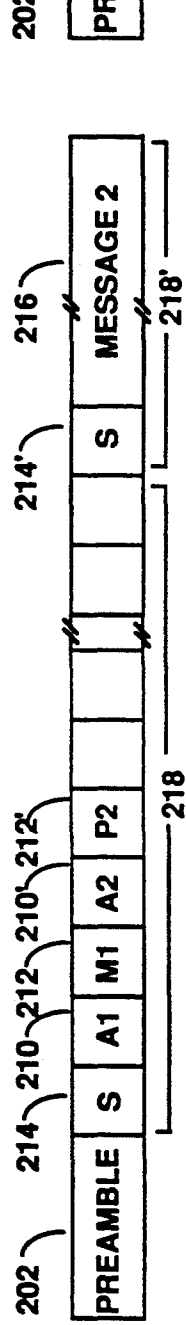


FIG. 2B

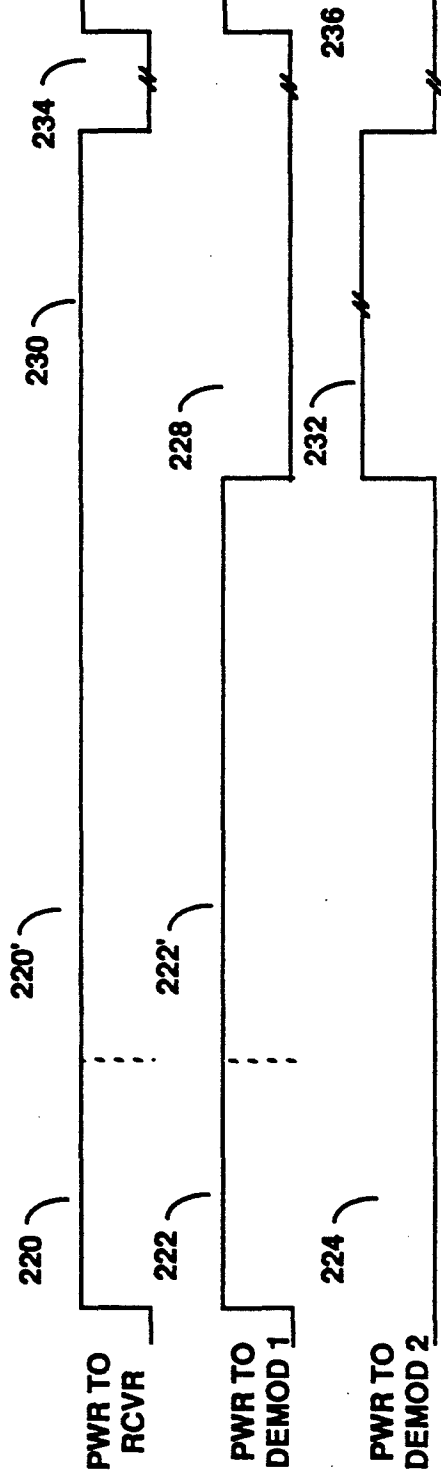
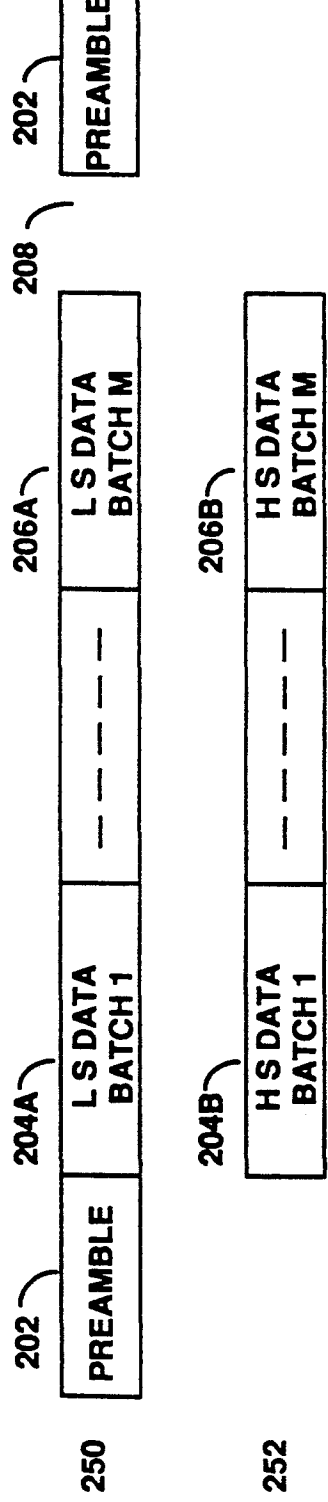


FIG. 2C



**FIG. 2D**

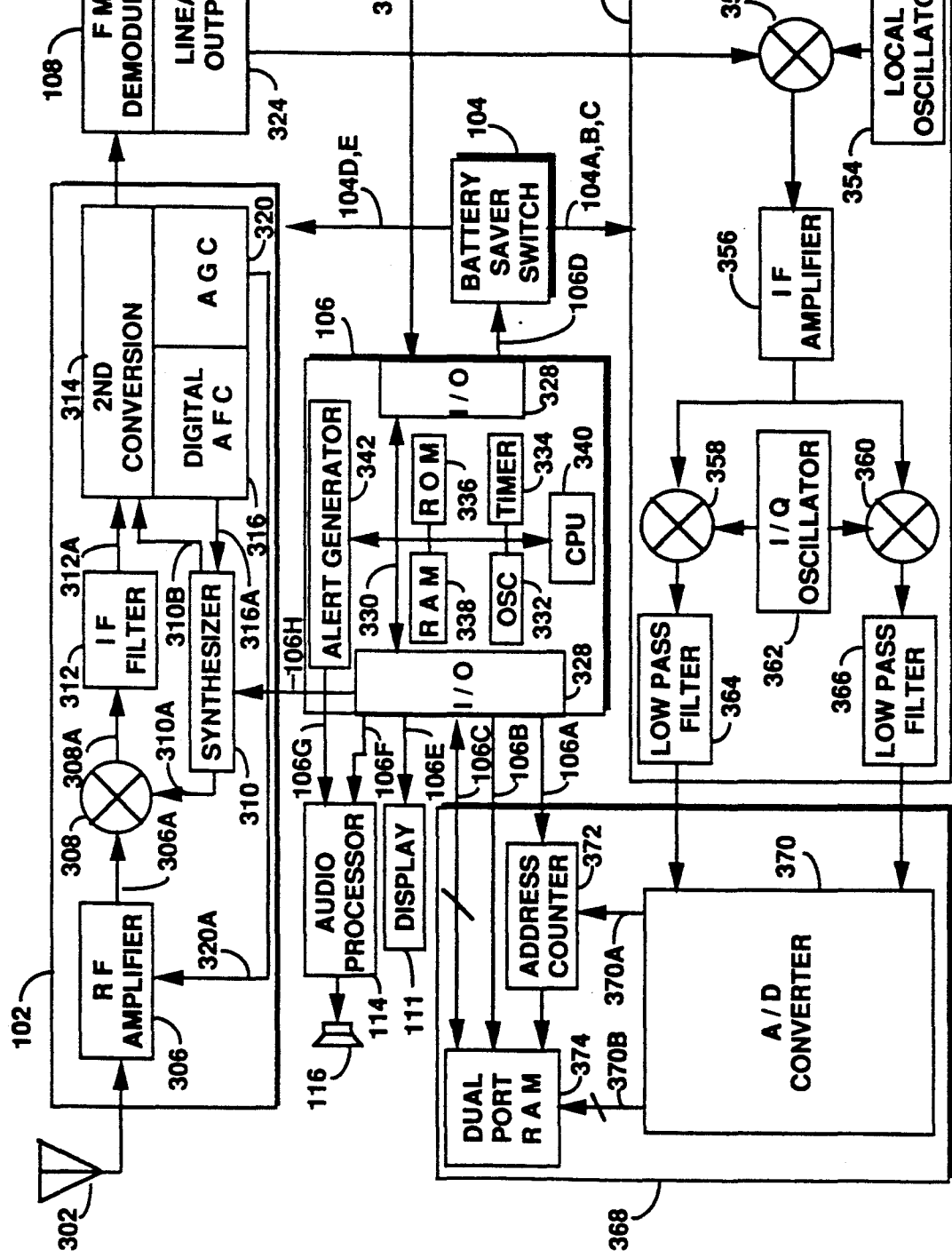


FIG. 3

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