

- [54] **COMMUNICATION SYSTEM**
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- [21] **Appl. No.:** 2,763
- [22] **PCT Filed:** Apr. 29, 1986
- [86] **PCT No.:** PCT/GB86/00230
 § 371 Date: Dec. 29, 1986
 § 102(e) Date: Dec. 29, 1986
- [87] **PCT Pub. No.:** WO86/06571
 PCT Pub. Date: Nov. 6, 1986

- [30] **Foreign Application Priority Data**
 Apr. 29, 1985 [GB] United Kingdom 8510808
- [51] **Int. Cl.⁴** H04J 3/16
- [52] **U.S. Cl.** 370/95.1
- [58] **Field of Search** 370/95, 96, 89, 90;
 340/825.08

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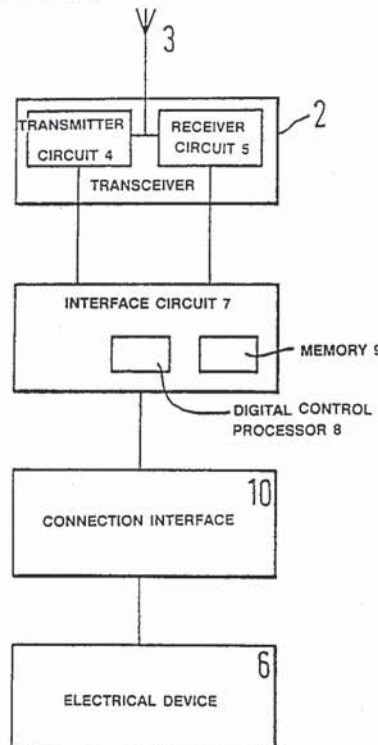
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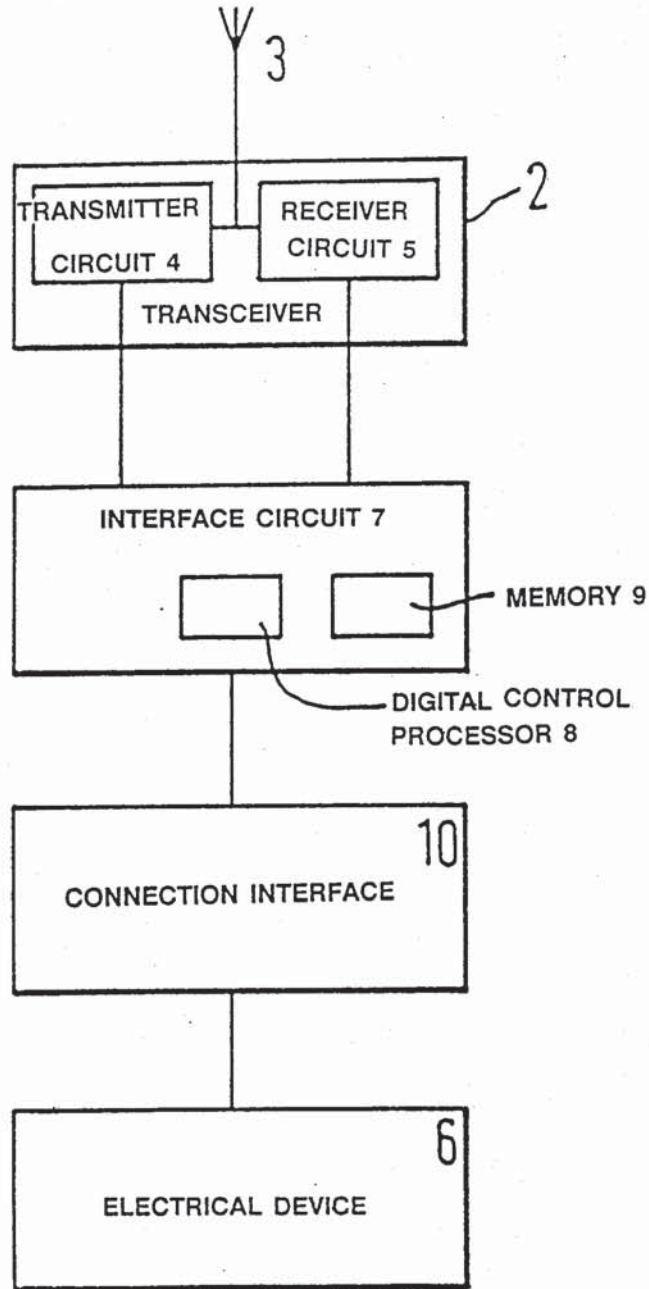
[57] **ABSTRACT**

A communication system able to provide multiple path communication between a plurality of stations operating on a single channel. The stations are synchronized and a cyclically repeating series of time slots is defined. One time slot in each cycle is reserved for the transmission of synchronization information by a station designated the master station for reception by the other stations, designated slave stations, and maintaining synchronization therein. Another time slot is reserved for any slave station to transmit a message that it requires to communicate to another station, such indication preferably being by transmitting its own pre-assigned address code. The remaining time slots are used for transmitting address information and data. The slave stations operate in a low power condition except during one of the other time slots when they may receive their own address, or except when they need to transmit data.

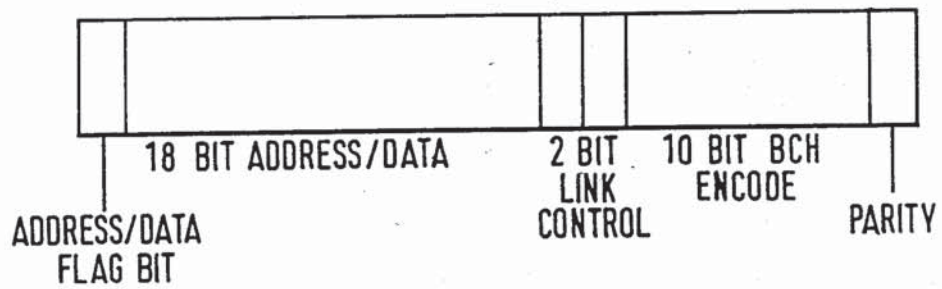
12 Claims, 9 Drawing Sheets



ADI 1004



DATA WORD FORMAT



DATA BATCH FORMAT

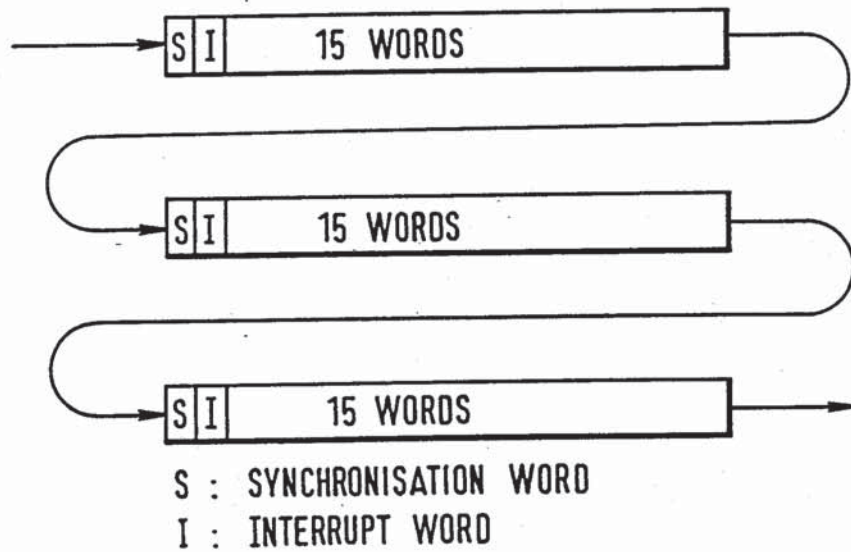


FIG. 2

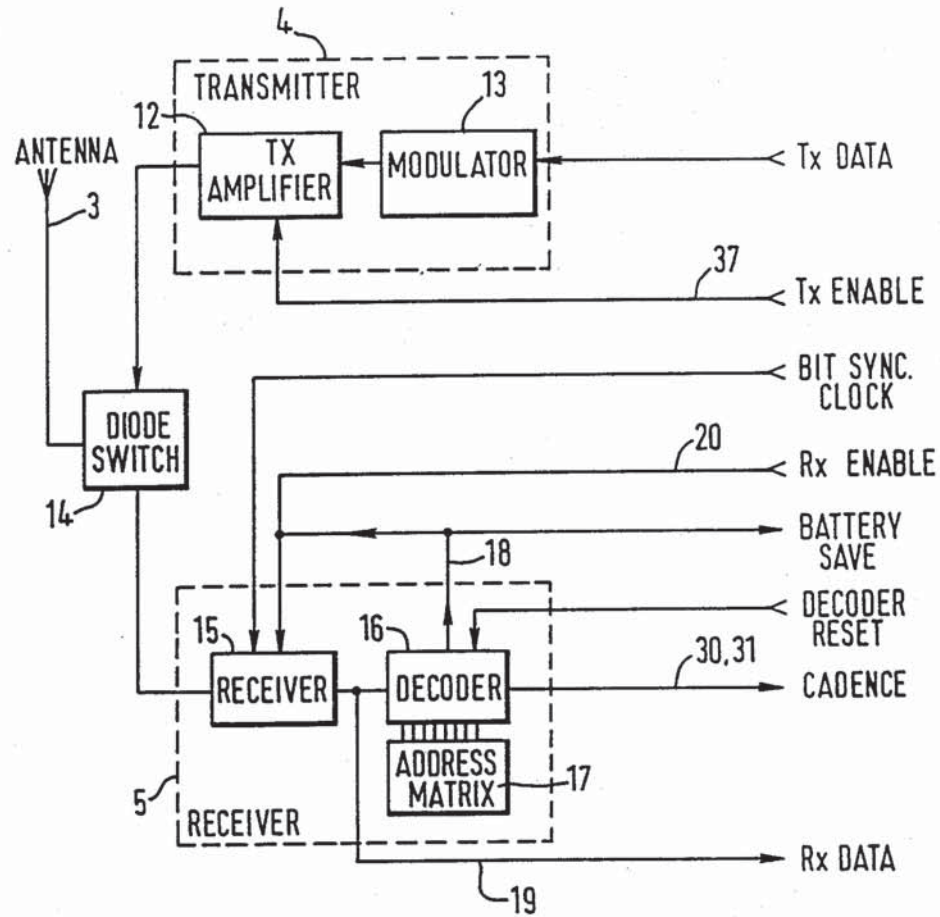


FIG. 3

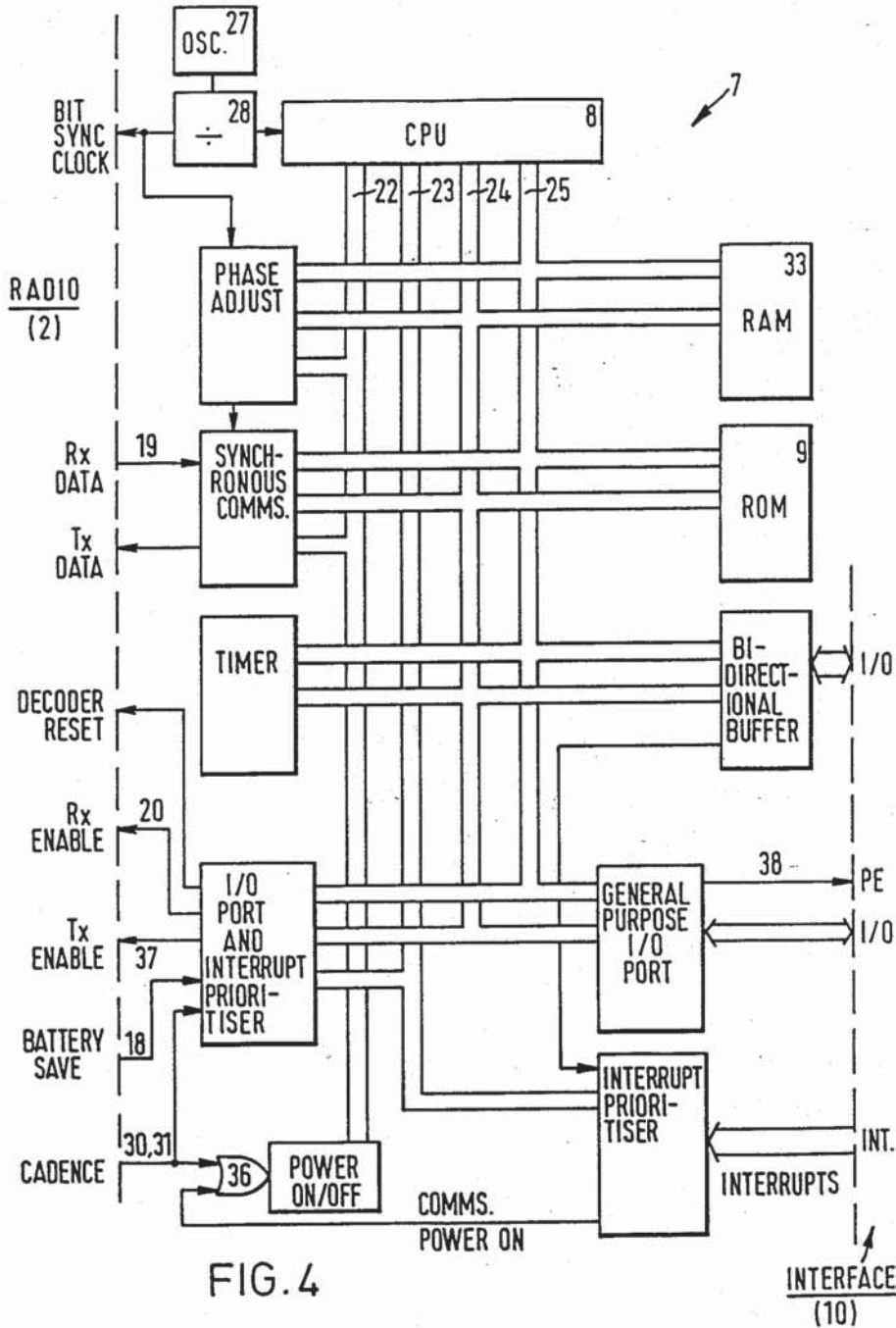


FIG. 4

INTERFACE (10)

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