

United States Patent [19]**Migliaccio et al.**[11] **Patent Number:** **6,161,002**[45] **Date of Patent:** **Dec. 12, 2000**[54] **APPARATUS AND METHOD FOR THE RECEPTION OF RADIO SIGNALS TRANSMITTED BY RDS SYSTEM**[76] Inventors: **Riccardo Migliaccio**, Viale dei Colli Portuensi 579; **Francesco Paviato**, Via Adolfo Gandiglio 84, both of 00151 Rome, Italy

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Primary Examiner—Dwayne D. Bost*Assistant Examiner*—Temica M. Davis*Attorney, Agent, or Firm*—Browdy and Neimark[21] Appl. No.: **09/182,661**[22] Filed: **Oct. 30, 1998**[30] **Foreign Application Priority Data**

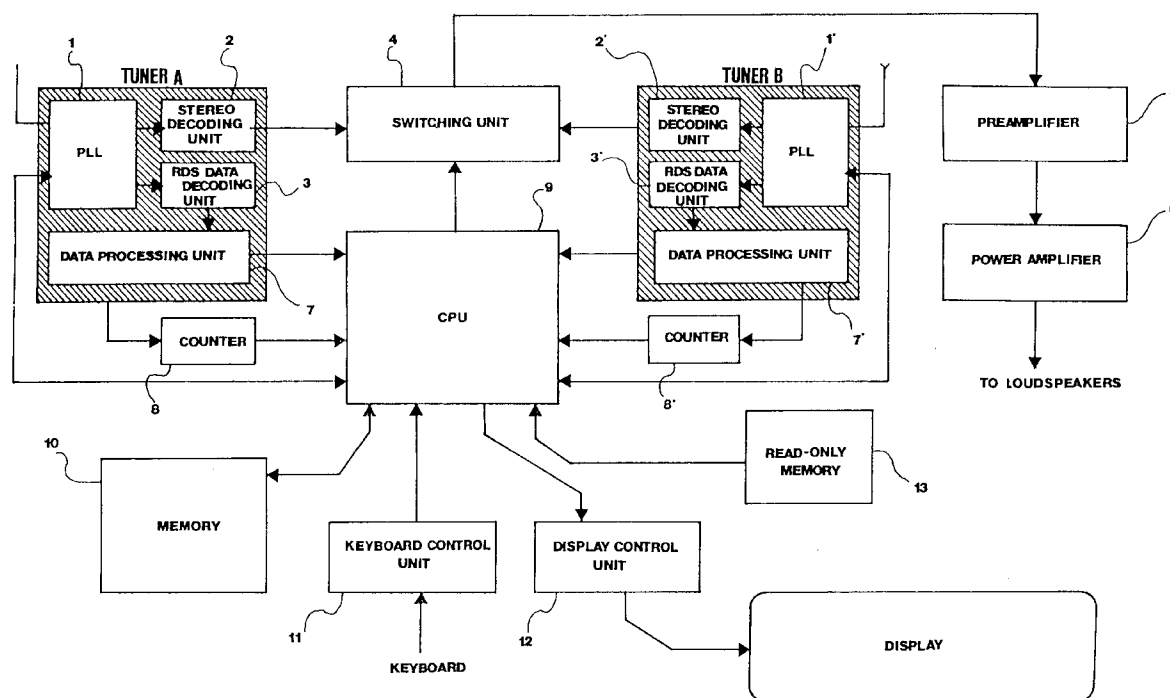
Nov. 18, 1997 [IT] Italy RM97A0712

[51] **Int. Cl.**⁷ **H04B 1/16**[52] **U.S. Cl.** **455/150.1**; 455/45; 455/151.1; 455/151.2; 455/158.4; 455/186.1[58] **Field of Search** 455/45, 186.1, 455/150.1, 151.1, 151.2, 158.4[56] **References Cited****U.S. PATENT DOCUMENTS**

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[57] **ABSTRACT**

An apparatus and a method for the reception of radio signals transmitted by an RDS system provide the selection and reception of a first frequency; the selection, during the reception of the first frequency, of a second frequency, different from the first frequency and not included in the AF list of frequencies alternative to the first frequency; and the switching of the reception between the first and second frequency upon comparison of RDS data relative to the second frequency with previously stored RDS data.

16 Claims, 4 Drawing Sheets

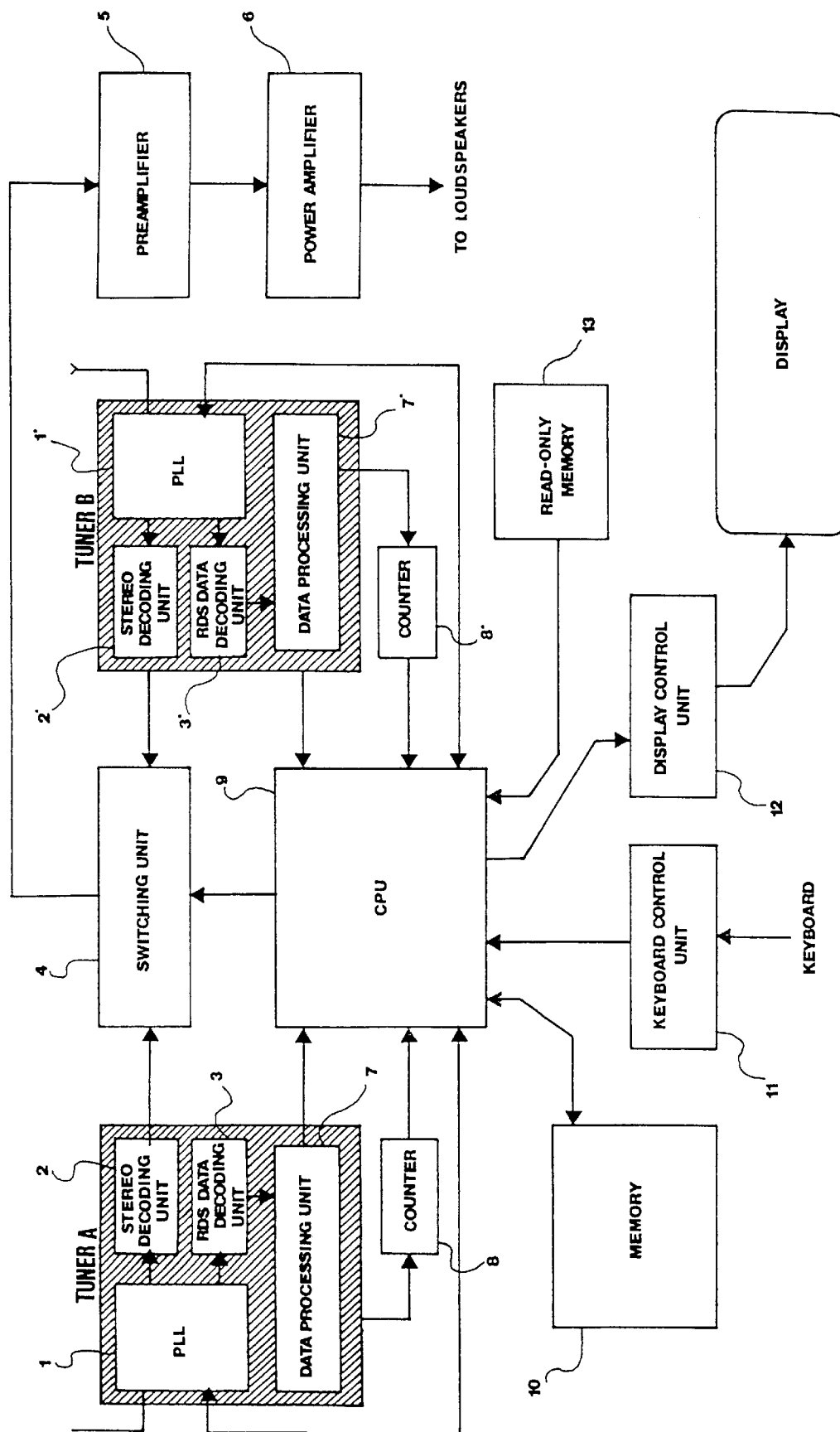
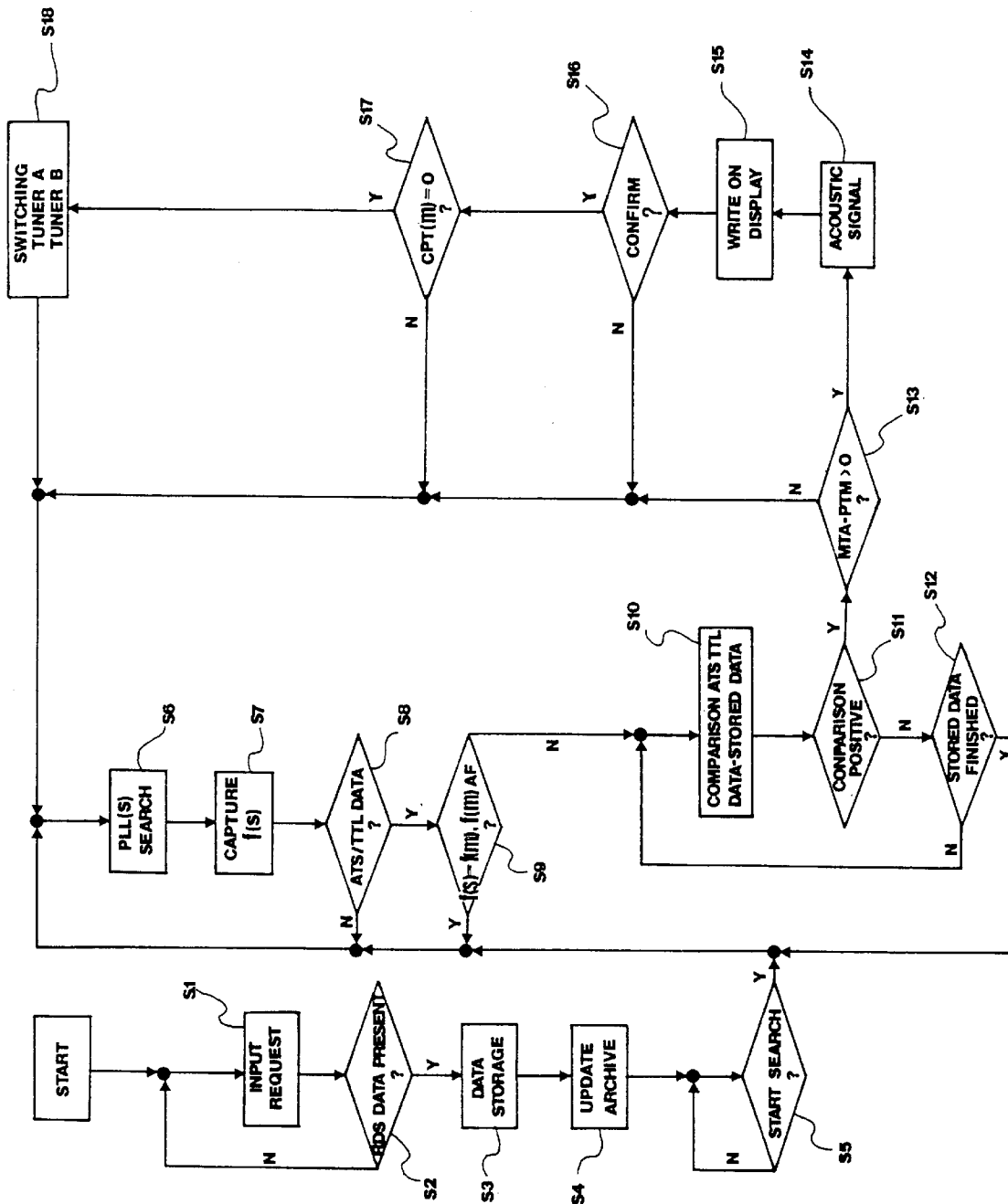


FIG. 1

FIG. 2



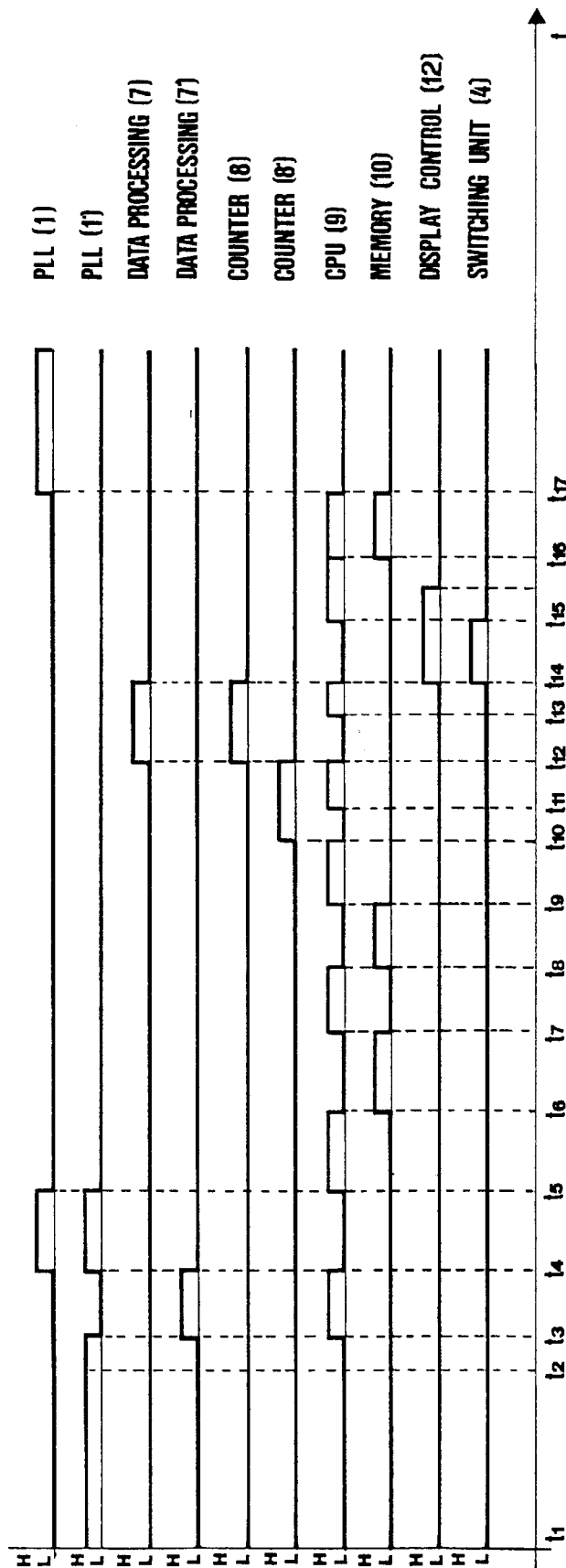


FIG. 3

SWITCHING WITH MANUAL ACCEPTING MODE

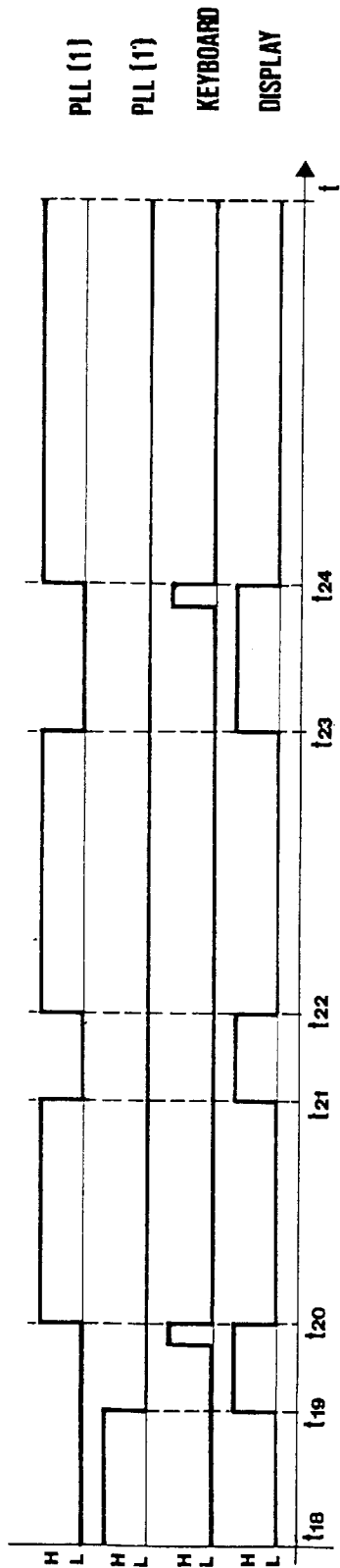


FIG. 4

SWITCHING WITH AUTO - ACCEPTING MODE

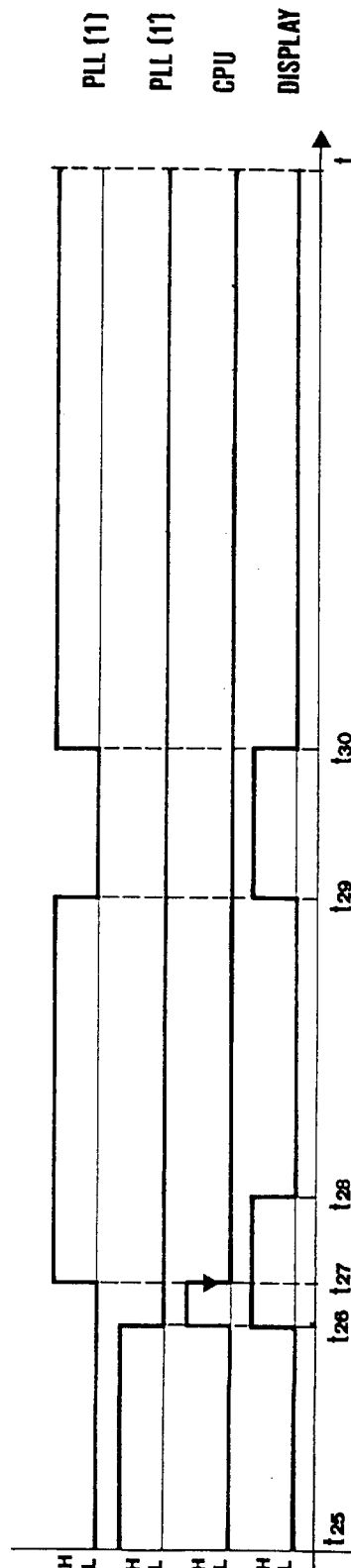


FIG. 5

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