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(54) DIGITAL AUDIO BROADCASTING RECEIVER

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U.S.C. 154(b) by 0 days.

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(22) Filed: Jan. 29, 1998

(30) Foreign Application Priority Data

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(51) Int. Cl.⁷ H04L 27/06

370/350, 503, 516; 375/316, 324, 329, 330, 340, 341, 344

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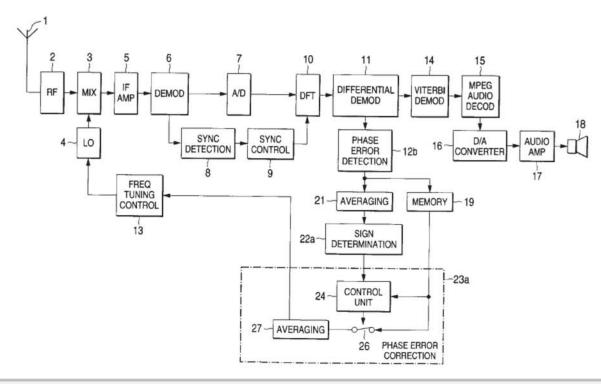
* cited by examiner

Primary Examiner—Chau Nguyen Assistant Examiner—Jasper Kwoh

(57) ABSTRACT

A digital audio broadcasting receiver comprises a phase error detector for detecting a phase error from data from a differential demodulator, an average value processing unit for determining the average value of phase errors, a memory for storing the phase errors of the carriers outputted from the phase error detector, and a phase error correcting unit which excludes a phase error whose sign is opposite to that of the average value among the phase errors stored in the memory, and determined the average value of phase errors again, thereby making it possible to obtain a phase error signal which is less affected by leakage from other carriers.

7 Claims, 19 Drawing Sheets





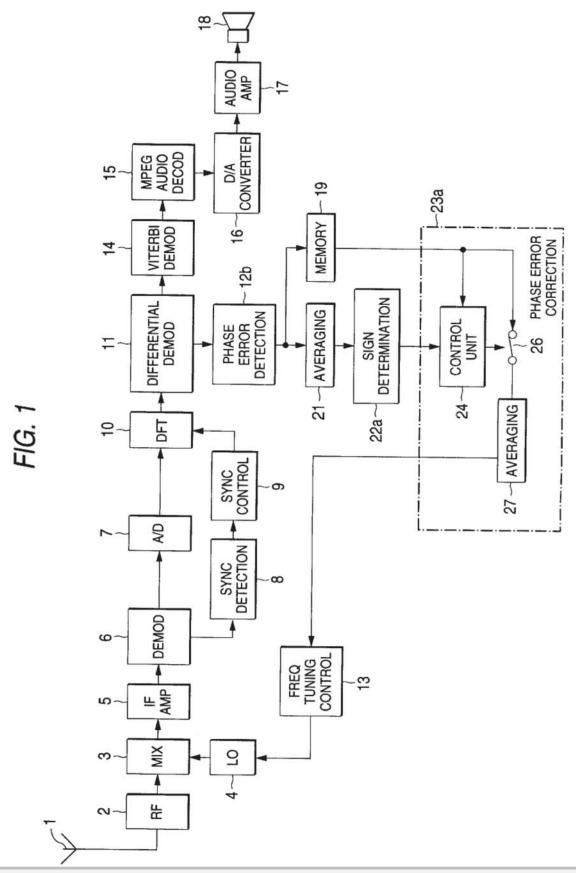
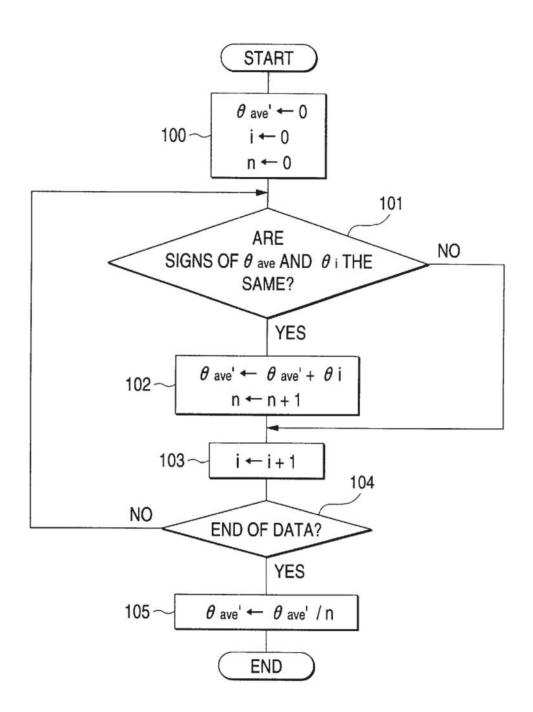




FIG. 2

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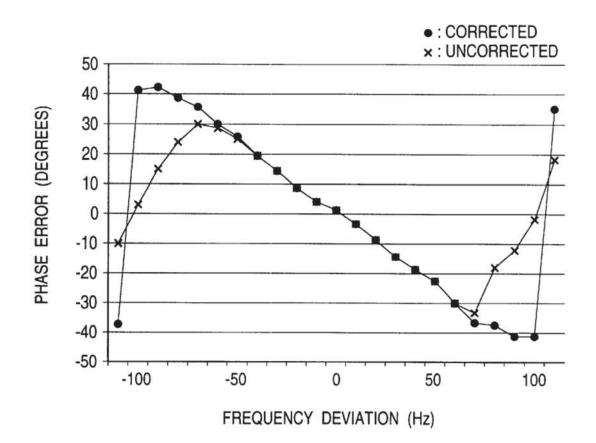
heta ave : AVERAGE VALUE OF PHASE ERRORS

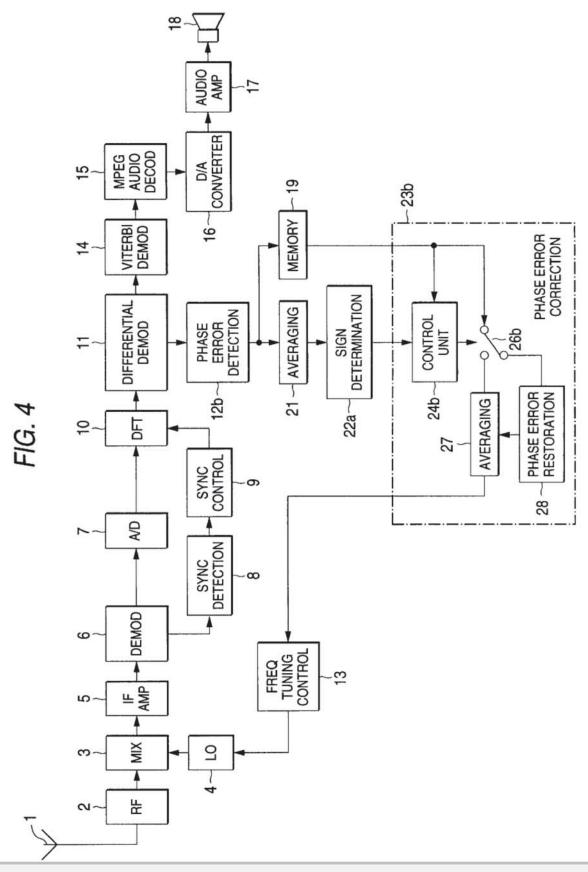
heta ave': CORRECTION VALUE FOR THE AVERAGE VALUE OF PHASE ERRORS

 θ : PHASE ERROR IN AN i-TH CARRIER



FIG. 3





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