

[54] RADIO RECEIVER SUITABLE FOR USE IN A SPACED CARRIER AREA COVERAGE SYSTEM

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[57] ABSTRACT

[21] Appl. No.: 612,995

A radio receiver suitable for use in a spaced carrier area coverage system in which two or more carriers are transmitted.

[22] Filed: May 21, 1984

In order to reduce the overall noise which is present in existing systems and to enable carriers to be spaced more regularly and/or closer, the radio receiver is adapted to measure the strength of each signal, in turn, and to determine which of the received signals has the greatest strength. A local oscillator, conveniently in the form of a frequency synthesizer is adjusted so that the output frequency to the mixer of the RF section is such as to enable the signal having the greatest strength to be received. The system remains locked on to the selected signal unless or until the incoming signal decreases in amplitude by more than a predetermined amount. If this occurs, the scanning sequence is repeated to find the signal having the greatest strength, but in the event of all the signals scanned not being greater than a minimum squelch threshold value, then a squelch signal is produced which inhibits the audio frequency section of the receiver. In this latter case the receiver remains in stand-by mode.

Related U.S. Application Data

[63] Continuation of Ser. No. 340,161, Jan. 18, 1982, abandoned.

[30] Foreign Application Priority Data

Feb. 4, 1981 [GB] United Kingdom ..... 8103413

[51] Int. Cl.<sup>3</sup> ..... H04B 7/24; H04B 1/26; H03J 7/18

[52] U.S. Cl. .... 455/52; 455/62; 455/165; 455/166

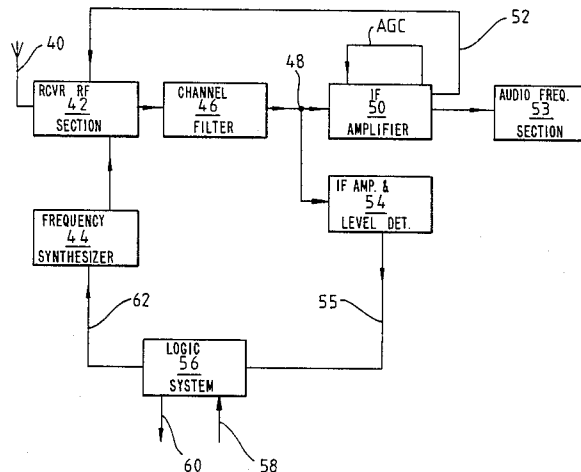
[58] Field of Search ..... 455/52, 62, 161, 165, 455/166, 168, 169, 194, 196

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5 Claims, 6 Drawing Figures



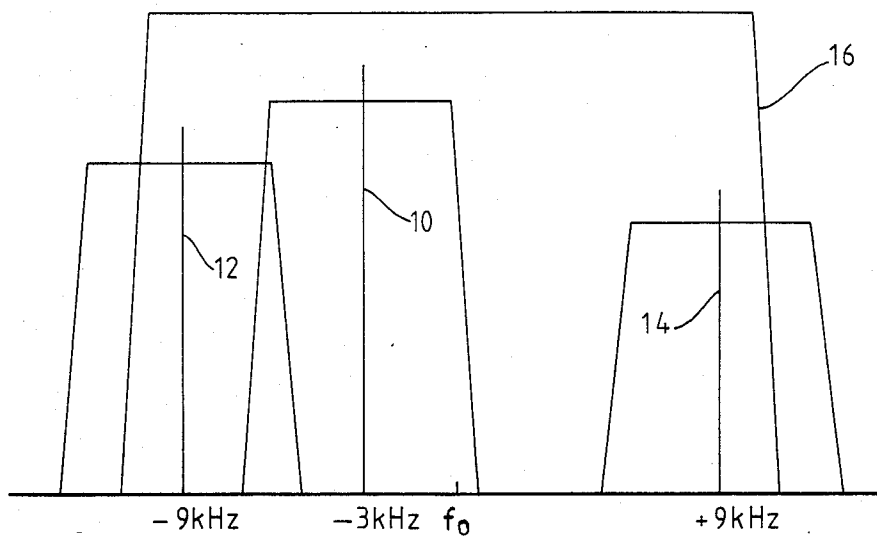


Fig. 1.  
PRIOR ART

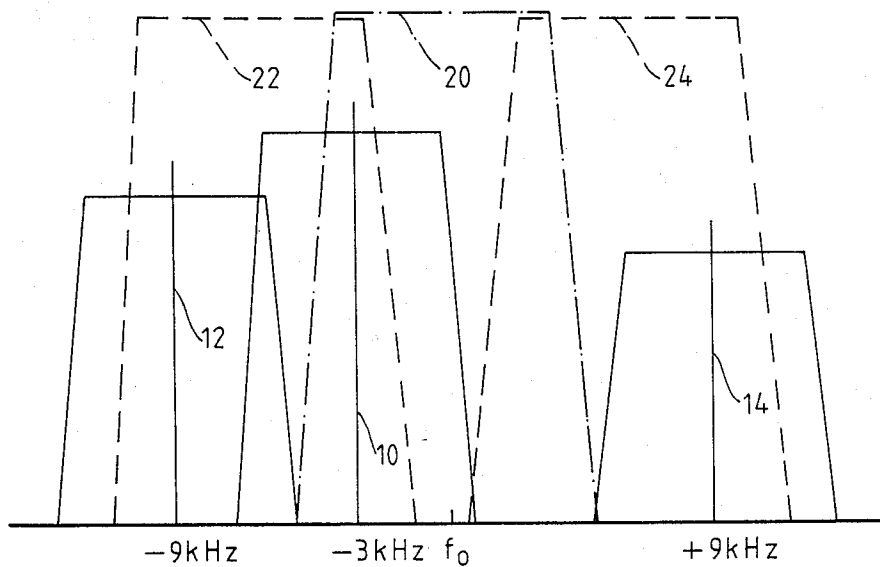


Fig. 2.

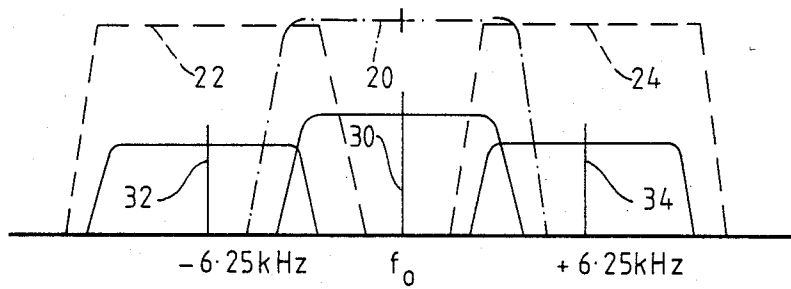


Fig. 3.

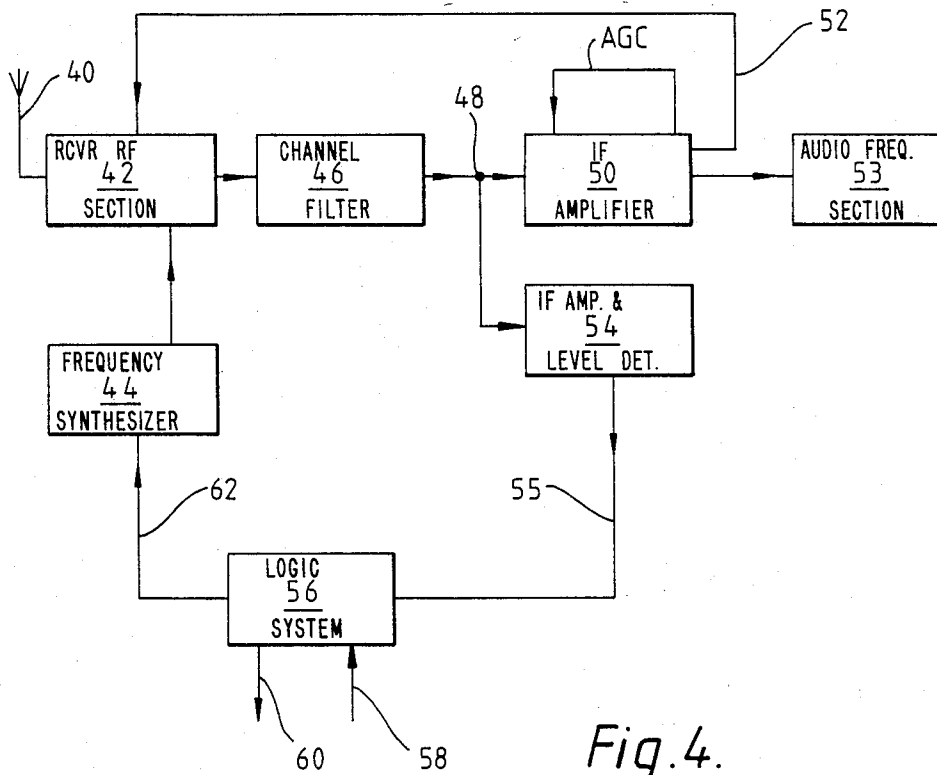


Fig. 4.

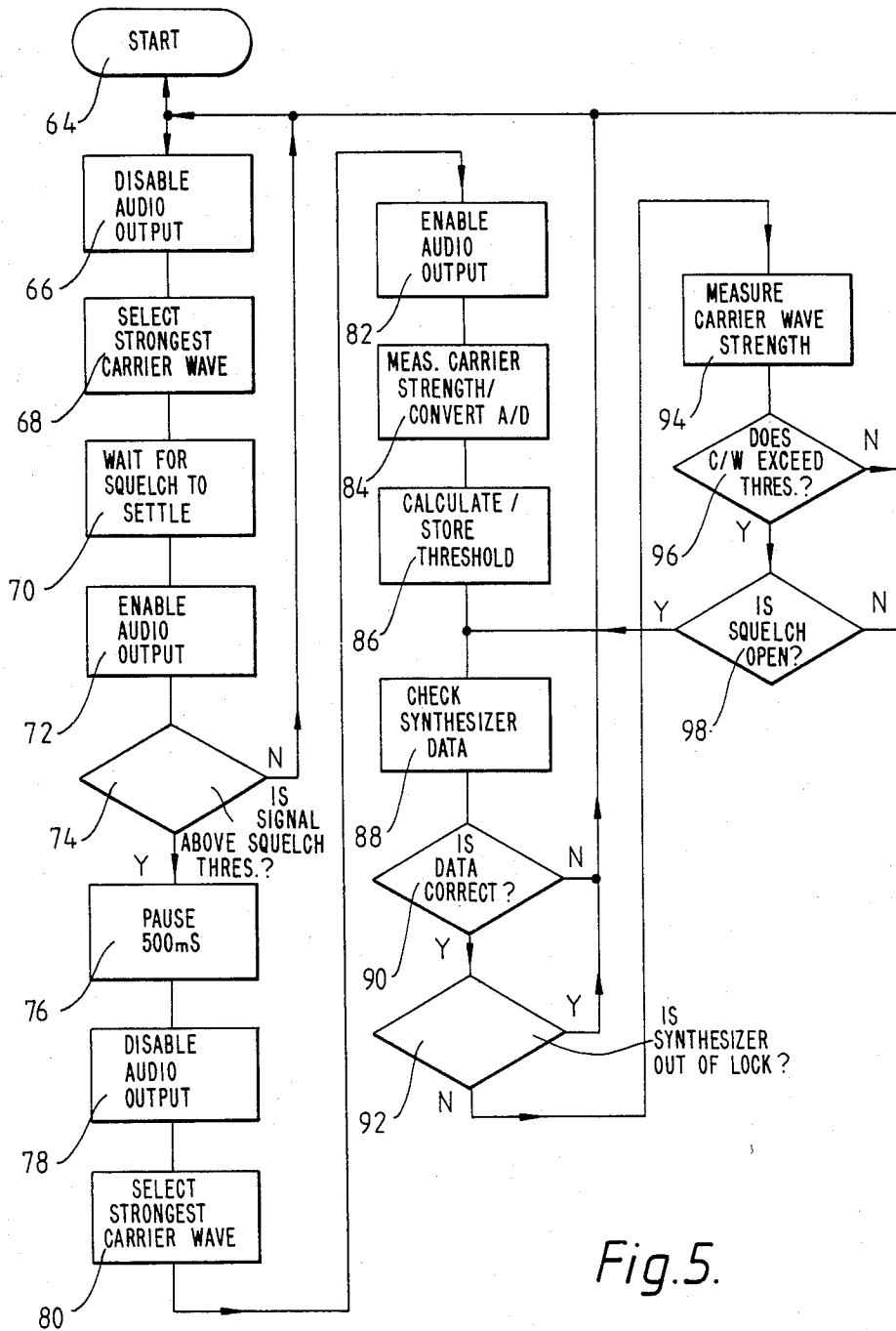


Fig. 5.

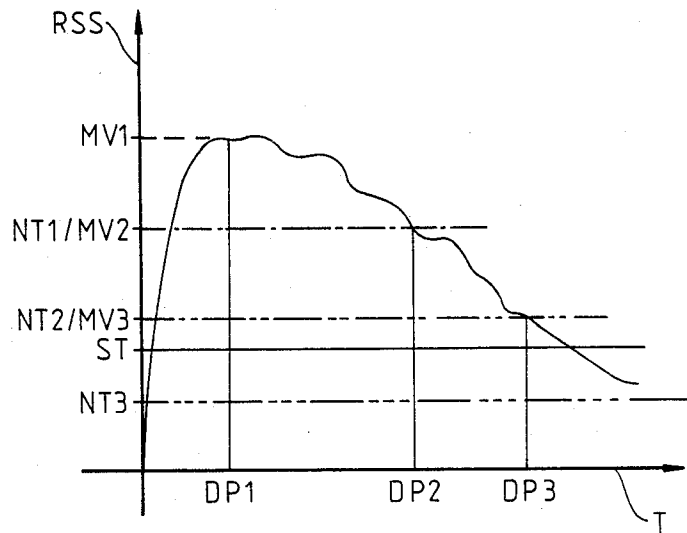


Fig. 6.

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