Figure (s) to accompany abstract

APPARATUS FOR TIME DIVISION MULTIPLEXED PROCESSING OF PLURAL QAM SIGNALS

ABSTRACT

The present invention includes apparatus for processing harmonically related plural quadrature amplitude modulated carriers. Sampling apparatus (12,14) converts the plural modulated carriers signal to sampled data format. The signal is sampled at a frequency equal to four times the symbol rate of the highest frequency carrier such that alternate samples correspond to in-phase and quadrature-phase components of the signal. The sampled data signals are resampled (16-20) to separate respective in-phase and quadrature-phase components of the respective signals. The in-phase samples of the respective signals are time division multiplexed (20), and the quadrature-phase samples are time division multiplexed (20). The time division multiplexed in-phase samples and quadrature-phase samples are coupled to a phase correction apparatus (24) arranged to operate in a time division multiplexed manner.

FIGURE 3

This Sheet Has Been Replaced