

Abstract of the Disclosure

In a video signal processing system, a single adaptive passband equalizer (20) is used to process a composite Quadrature
5 Amplitude Modulated (QAM) signal encoded with high priority (HP) and standard priority (SP) components. The equalizer output is phase corrected by a de-rotator(24), and filtered (32,34) to separate the HP and SP components. Error signals respectively representing HP and SP phase errors are developed (30,38). One
10 of the error signals (E1) controls the operation of the de-rotator. Both error signals are used to generate (22) updated coefficients for the adaptive equalizer. Afterwards the HP and SP components are decoded (40,42) and combined (48).

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