

TELEVISION RECEIVER WITH SEPARATE I-F AMPLIFIERS FOR VSB AND
QAM DIGITAL TV SIGNALS THAT ARE DIGITALLY SYNCHRODYNED

Abstract of the Disclosure

A radio receiver includes first and second intermediate-frequency amplifier chains respectively supplying first and second final intermediate-frequency responses to a digital television (DTV) signal selected for reception; first and second analog-to-digital converters for digitizing the first and second final
5 intermediate-frequency responses; QAM synchrodyning circuitry for generating real and imaginary sample streams of interleaved QAM symbol code by synchrodyning the digitized first final intermediate-frequency response to baseband, providing the selected DTV signal is a QAM signal; and VSB synchrodyning circuitry for
10 generating a real sample stream of interleaved VSB symbol code by synchrodyning the digitized second final intermediate-frequency response to baseband, providing the selected DTV signal is a VSB signal. The first and second intermediate-frequency amplifier chains share at least one local oscillator.

(Fig. 1)

This Sheet Has Been Replaced

