DIGITAL VIDEO SIGNAL PROCESSING SYSTEM INCLUDING A REJECTION FILTER

Abstract of the Disclosure

A digital signal processing system for receiving and processing a high definition television signal, eg., in a Pulse Amplitude Modulation (PAM) format, includes a filter for rejecting interferer signals such as a narrowband continuous wave NTSC co-channel interferer. In an illustrated embodiment the rejection filter is a digital FIR filter (18) located after a (de)rotator (16) in a carrier recovery network (16, 20, 24, 26, 28). The filter exhibits a zero throughput delay bandpass response with attenuation notches for rejecting NTSC co-channel picture and chrominance baseband carrier frequencies.

FIGURE 1